

## Addendum I

From data-month September 2002 onwards, the printed ISC Bulletins have been generated directly from the ISC Relational Database.

From data-month October 2002, a new location program ISCloc has been used in operations. Also, the IASPEI standard seismic phase list has now been adopted by the ISC, please see the last pages of this Bulletin for details.

From data-month January 2003 onwards, an updated regionalisation scheme has been adopted (Young, J.B., B.W. Presgrave, H. Aichele, D.A. Wiens, E.A. Flinn The Flinn-Engdahl Regionalisation Scheme: the 1995 Revision, Physics of the Earth and Planetary Interiors 96 (1996), 223-297)

These developments have prompted the need to review and revise the format of the Bulletin.

The following example illustrates the changes :-

## September 2002

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NEIC 01 18:45:41.7±1.7,21.70S×179.55W,h600km,mb4.6/6,
Error ellipse: s-maj=75.5km s-min=25.7km az=151.0
IDC 01 18:45:46.3±2.6,21.76S×179.70W,h627km,37km,mb3.5/4,
mb1 3.7/4,mb1mx3.2/14,Error ellipse: s-maj=83.2km
s-min=20.6km az=159.0
ISC 01 18:45:41.7-1.4,22.1S:02×179.3W:0.2,h600km,n22,
c155/24,mb4.4/9,1C, South of Fiji Islands
Code Station Name Δ° AZ° Phase ID ISC Time Res
h m s ISC
HBZ Hicks Bay 15.60 187 eP Op 18 48 53.1 -2.1
URZ Urewera 16.41 190 P P 18 49 01.5 -1.1
MRZ Mangatoinoka R 19.02 192 eP P 18 49 26.7 +0.3
DIW D'Urville Isla 19.52 195 eP P 18 49 27.3 -3.6
CAW Cannon Point 19.55 193 eP P 18 49 31.7 +0.5
OTW Orongorongo Tu 19.73 193 eP P 18 49 33.0 +0.2
MCW Moikau 19.82 192 eP P 18 49 35.5 +1.9
THZ Tophouse 20.68 197 eP P 18 49 42.0 +0.5
KHZ Kahutara 21.14 195 P P 18 49 46.2 +0.8
ARMA Armidale 27.28 246 eP P 18 50 42.4 +2.3
4.9nm,0.5s
CTA Charters Tower 32.13 267 P P 18 51 22.3 +0.5
13nm,0.5s
STKA Stephens Creek 36.00 246 eP P 18 51 55.3 +1.5
3.1nm,0.4s
ASAR Alice Springs 42.97 259 P P 18 52 50.1 +0.4
9.8nm,0.5s,baz=92,slow=8.2,SNR=47
ASAR 1.0nm,0.8s,baz=95,slow=15,SNR=5.7
ASPA Alice Springs 42.97 259 eP P 18 52 50.1 +0.4
WRA Warramunga Arr 43.18 264 P P 18 52 51.0 -0.4
1.8nm,0.3s,baz=96,slow=7.8,SNR=93
WRA 0.3nm,0.9s,baz=99,slow=14,SNR=3.0
KAKA Kakadu 46.79 273 eP P 18 53 18.2 -0.7
14nm,0.4s
FITZ Fitzroy Crossi 51.61 264 eP P 18 53 54.3 +0.1
12nm,0.3s
MBWA Marble Bar 56.31 259 eP P 18 54 27.1 -0.1
11nm,0.6s
CMAR Chiang Mai Arr 89.48 290 P P 18 57 38.1 +1.7
1.3nm,0.8s,baz=135,slow=3.1,SNR=8.1
ARCES ARCESS Array B 130.23 349 PKKP PKIKP 19 03 43.7 -1.2
0.7nm,0.6s,baz=282,slow=4.2,SNR=3.5
FINES FINES Array B 136.91 342 PKKP PKIKP 19 03 57.3 -1.3
3.7nm,1.1s,baz=158,slow=3.2,SNR=5.4
MLR Muntele Rosu 148.83 325 PKKPbc PKIKP 19 04 22.7 -1.0
0.2nm,0.7s,baz=1.2,slow=23,SNR=2.3

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## Epicentral Estimates

Origin times - The superscripts have been removed and a simpler format adopted.

Magnitudes - All magnitudes that were reported to the ISC are now shown. Only two per agency were allowed in the past.

Error Ellipses - The keywords have been shortened.

## Observational Data

The station code, station name, epicentral distance and azimuth are all shown in **bold** for Initial phases. For Secondary phases, only the station code (in normal font) is repeated.

Phase ID's - The Operator's identification is shown in normal font. The Operator's residual is no longer printed. When the arrival time of an initial or secondary phase has contributed to the location - the ISC's identification, the arrival time and the ISC's travel-time residual are all shown in **bold**.

Phase Parameters - The following parameters are included on supplementary lines where appropriate :-

Component, amplitude and period (or logA/T) - reported by the Operator.

Station magnitude estimate - computed by the ISC.

Slowness, Back-Azimuth, Signal-to-Noise ratio - measured by the Operator.

## Addendum II

From data-month January 2006 the ISC hypocentres are computed using the AK135 earth velocity model ( Kennett, B.L.N. Engdahl, E.R. & Buland R., 1995. Constraints on seismic velocities in the Earth from travel times, Geophys J Int, 122, 108-124; B.L.N. Kennett, 2005. Seismological tables: ak135. Research School of Earth Sciences, the Australian National University, Canberra ) and then reviewed by the ISC seismologists. The ISC still produces the hypocentre solutions based on Jeffreys-Bullen travel time tables (agency code ISCJB), yet these solutions are no longer reviewed.

The ISC is planning to re-compute the entire ISC dataset using AK135 once new location procedures are designed, tested, discussed and approved by the ISC Governing Council. Until that time the automatic ISCJB locations will continue to be produced alongside the AK135 solutions to observe the long-time continuity of the ISC Bulletin.

## Addendum III

From data month January 2009 the ISC hypocentres are computed using the new ISC location algorithm and all reported IASPEI seismic phases, for which ak135 predictions are available. This algorithm is described in: Bondár, I. and D.A. Storchak (2011), Improved location procedures at the International Seismological Centre, Geophys. J. Int., 186, 1220-1244, doi:10.1111/j.1365-246X.2011.05107.x

The alternative locations based on JB-tables are still produced with the original location algorithm for consistency with the past data. It is still the plan that by the middle of calendar year 2014 all ISC locations (1960-2008) are going to be re-computed with the new locatin algorithm and ak135 as part of the ISC Bulletin Re-Build project, sponsored by the US NSF and several agencies from Japan, China and India.





NEIC 01 00:08:41.9±2.0, 6.94S:0.06±148.03E:0.06, h10km±1km, mb4.6/18, Error ellipse: s-maj=10.9km s-min=8.0km az=41.0

IDC 01 00:08:47.8±1.8, 6.93S:147.96E, h63km, 15km, mb3.9/15, mbmp4.2/18, MS3.4/15, Error ellipse: s-maj=22.1km s-min=9.5km az=100.0

ISC 01 00:08:47.2±0.5, 6.96S:0.05±148.00E:0.08, h54km, n81, α15/78, mb4.3/24, MS3.4/12, Eastern New Guinea region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like Port Moresby, Warramunga Arr, Alice Springs, etc.

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like South Pole Qui, IL31, ILAR, etc.

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like Cruziero do Su, Tabatinga, AM, etc.

CATAC 01 00:18:28.4±0.4, 1.3°N±2.8°W±1.1, h26km±2km, M4.3/32, MLv4.3/32, Error ellipse: s-maj=5.3km s-min=2.9km az=23.6, Moment Tensor Solution. Moment tensor: Scale 10^14 Nm; Mr=2.45; Mw=0.36; Mz=2.82; Mxx=9.5; Mxy=1.6; Myz=1.44; Fault plane solution: Mo=6.65605x10^14 NP1: φ=357.98959°; δ=1.7556°; λ=154.17692°; NP2: φ=254.68106°; δ=32.52°; λ=31.39773°; Principal axes: T=6.6649, Plg4.0444; Azm307.6389; N=0.0177; Plg52.0846; Azm24.8471; P=6.6472, Plg37.6210; Plg214.5151; Moment Tensor Solution. Moment tensor: Scale 10^14 Nm; Mr=1.52; Mw=0.18; Mxx=1.70; Myz=1.98; Mxy=4.31; My=1.73; Fault plane solution: Mo=5.29883x10^14 NP1: φ=359.14064°; δ=67.50483°; λ=153.82461°; NP2: φ=258.48993°; δ=85.94858°; λ=24.77030°; Principal axes: T=5.1715, Plg1.0109; Azm128.5377; N=0.2460, Plg56.0128; Azm37.0379; P=5.4175, Plg33.9679; Azm219.2188; Moment Tensor Solution. Moment tensor: Scale 10^15 Nm; Mr=1.30; Myz=1.58; Mxy=1.83; Mw=0.69; Mz=1.27; Mxx=0.33; Fault plane solution: Mo=2.23160x10^15 NP1: φ=190.49341°; δ=59.08673°; λ=140.72547°; NP2: φ=303.28118°; δ=87.10430°; λ=37.72284°; Principal axes: T=1.9654, Plg48.3576; Azm155.9587; N=0.4606, Plg41.6175; Azm338.3548; P=2.4259, Plg1.1900; Azm247.2974; confirmed

SNET 01 00:18:29.5±1.1, 13.13N±0.04±89.44W, h41km, ML4.2, ISC 01 00:18:29.5±1.2, 13.13N±0.04±89.44W±0.03, h32km±10km, n110, α08/88/137, El Salvador

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like LALI, ALCALDE DE L, etc.

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like Las Nubes, Universidad Ca, etc.

NIED 01 00:43:43.5, 38.46N:144.56E, h31km, MW3.4, Moment Tensor Solution. s3 Moment tensor: Scale 10^14 Nm; Mr=0.96; Mw=0.13; Mxx=0.83; Myz=0.46; Mxy=0.27; My=0.98; Fault plane solution: Mo=1.43000x10^14 NP1: φ=157.00000°; δ=32.00000°; λ=32.00000°; NP2: φ=157.00000°; δ=32.00000°; λ=32.00000°

JMA 01 00:43:43.0±0.38 N±1.45E±, h31km, MV4.0/28, FAR E OFF NORTH HONSHU, Off east coast of Honshu

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like OFUJ, Ikinoto, etc.

NIED 01 00:52:58.3, 44.32N:149.69E, h30km, MW4.1, Moment Tensor Solution. s3 Moment tensor: Scale 10^15 Nm; Mr=0.98; Mw=0.52; Mxx=1.50; Mxy=0.67; Myz=0.76; My=0.06; Fault plane solution: Mo=1.65000x10^15 NP1: φ=165.00000°; δ=32.00000°; λ=37.00000°; NP2: φ=51.00000°; δ=62.00000°; λ=136.00000°

JMA 01 00:52:58.3±0.9, 44°N±4°E±15°E±, h30km, MV4.0/11, SE OFF ETOROFU

MOS 01 00:53:04.0±1.0, 44°16'N:149°16'E, h38km, mb4.7/20, Error ellipse: s-maj=10.4km s-min=7.0km az=121.8

IDC 01 00:53:06.5±0.7, 44°22'N:149°17'E, h40km±3km, mb3.8/23, mbmp4.0/30, ML3.2/6, MS3.4/17, Error ellipse: s-maj=11.9km s-min=13.0km az=173.0

SKHL 01 00:53:07.0±0.4, 44°00'N:148°08'E, h64km±1km, mb4.4/3

ISC 01 00:53:03.7±0.6, 44.05N±0.05±149.06E±0.05, h25km±2km, h25km±2km, Kuri Islands

Table with columns: Code, Station Name, Δ° AZ', Phase ID, ISC, Time, Res. Includes stations like KUR, KURI'SK, etc.



Table with columns: Station Name, Azimuth, Phase ID, Time, and other parameters. Includes stations like WSAR, NGCH, MHTO, etc.

MOS 01 01:38:41.9-1.0, 48.19N; 154.35E, h63km, mb4.0/1, Error ellipse: s-maj=17.9km s-min=4.8km az=70.3

KRSC 01 01:38:43.2-2.7, 48.08N; 154.28E, h97km, mb3.6/14, SKHL 01 01:38:45.6-0.7, 48.30N; 154.20E, h87km, mb4.7/3, msh5.5/4

IDC 01 01:38:46.8-2.2, 48.32N; 154.27E, h97km, mb3.6/14, mbmp4.0/18, MS2.9/12, Error ellipse: s-maj=24.9km s-min=12.4km az=126.0

ISC 01 01:38:41.8-0.7, 48.14N; 0.009; 154.56E; 0.009, h50km, n85, e231/83, mb4.0/14, MS3.0/7, Kuril Islands

Main table of station data for the first section, including station names like Severo-Kuril's, SKR, SKR, etc., and their respective coordinates and parameters.

Main table of station data for the second section, including station names like ILAR, ZALV, MKAR, etc., and their respective coordinates and parameters.

Main table of station data for the third section, including station names like SNUE, SCLA, SCLA, etc., and their respective coordinates and parameters.

Main table of station data for the fourth section, including station names like DALK, DALK, DALK, etc., and their respective coordinates and parameters.

Main table of station data for the fifth section, including station names like LALI, LALI, LALI, etc., and their respective coordinates and parameters.

Main table of station data for the sixth section, including station names like CNGN, CNGN, CNGN, etc., and their respective coordinates and parameters.

CATAC 01 01:44:16.2-0.4, 13°N; 2.8°W; h28km, 2km, M5.0/31, MLV5.0/31, Error ellipse: s-maj=5.1km s-min=2.4km

ISC 01 01:44:17.2-1.7, 13.39N; 89.03W, h56km, 1.4km, mb3.9/13, mbmp4.3/15, MS3.2/34, Error ellipse: s-maj=28.2km s-min=12.1km az=47.0

ISC 01 01:44:17.8-2.4, 13.05N; 0.06; 89.34W; 0.07, h57km, 8km, mb4.5/173, Error ellipse: s-maj=11.5km s-min=7.0km az=53.0

ISC 01 01:44:18.1-2.0, 13.09N; 89.58W, h27km, 9km, MD4.5, MB4.5(NEIC)

# 2019 JUN

1d 2h	PH	2h	2h	2h	2h
PICV	PH Pirrs	6.12 124	eP	Pn	01 45 48.0 +2.6
ABEZ	San Pablo	6.20 123	eP	Pn	01 45 48.4 +1.9
LCR2	La Lucha 2	6.21 122	eP	Pn	01 45 48.7 +1.9
LCR2	La Lucha 2	6.21 122	eP	Pn	01 45 48.7 +1.9
RAFA	San Rafael, Vo	6.26 120	eP	Pn	01 45 50.1 +2.5
VTLA	Turrialba Volc	6.27 119	eP	Pn	01 45 49.1 +1.2
CVTR	Volcan Turrial	6.28 119	eP	Pn	01 45 49.9 +2.1
CVTO	Turrialba Volc	6.28 119	eP	Pn	01 45 49.9 +2.1
REPA	Paraso	6.28 121	eP	Pn	01 45 51.2 +3.5
LLNJ	Naranjito	6.29 125	eP	Pn	01 45 50.1 +2.5
CVTV	Tajo	6.32 119	eP	Pn	01 45 51.2 +3.2
ABRB	Las Abbras (San	6.32 119	eP	Pn	01 45 49.7 +1.5
VTCV	VTCV, Calle Va	6.32 119	eP	Pn	01 45 49.7 +1.5
RESJ	San Isidro (Tu	6.37 118	eP	Pn	01 45 50.1 +1.3
CMIG	Matias Romero	6.65 307	P	Pn	01 45 53.1 +0.6
	comp=E,27nm,0.7s,baz=101,slow=10,SNR=32				
CMIG	comp=E,12nm,0.3s,baz=64,slow=21,SNR=6.2			Sn	01 47 06.2 -0.8
	comp=E,38nm,19.7s,baz=134,slow=32			LR	01 47 50.3
VERH	Vesagua Rainfo	6.81 117	eP	Pn	01 45 55.6 +0.9
SAJE	San Jermin	6.84 123	eP	Pn	01 45 57.6 +2.3
EDPE	Pejibaye, P	6.89 124	eP	Pn	01 45 58.5 +2.5
DRKO	Durika	7.10 122	eP	Pn	01 46 00.7 +1.8
TEIG	Tejich	7.14 8	eP	Pn	01 46 01.6 +2.4
PIRO	Carate, Puerto	7.53 128	eP	Pn	01 46 06.8 +2.2
ALCO	Alturas Coton,	7.62 119	eP	Pn	01 46 07.9 +1.1
BRUZ	Volcan	7.82 123	eP	Pn	01 46 10.1 +1.4
LMNES	Limonas	8.09 127	eP	Pn	01 46 15.1 +2.8
RBALA	Bur	8.22 120	eP	Pn	01 46 14.9 +0.9
TLIG	Tipa	9.93 298	eP	Pn	01 46 39.7 +2.2
SOR	Soroa	11.35 31	eP	Pn	01 47 00.2 +3.5
NMDO	Nuevo Mundo	15.60 60	eP	Pn	01 48 14.3 -3.3
ZAIG	Zacatecas	16.51 309	eP	Pn	01 48 01.4 +2.3
ROSC	El Rosal	16.95 118	LR	P	01 55 00.2
	comp=E,66nm,21.6s,baz=240,slow=38			LR	01 48 20.4 0.0
FLOC	Florencia	17.75 129	P	P	01 48 34.6
HNDO	Hondo	18.75 332	IAMB	P	01 48 34.6
SDV	Santo Domingo	18.84 101	LR	LR	01 56 18.8
	comp=Z,43nm,21.1s,baz=266,slow=39				
TIGA	Tifton	18.96 15	P	P	01 48 36.0 +1.0
435B	Jarell	19.15 338	IAMB	P	01 48 48.0
	comp=Z,23nm,0.6s				
NATX	Nacogdoches	19.18 346	IAMB	Pn	01 48 37.3 -0.1
DRIO	Del Rio	19.30 329	P	P	01 48 38.2 +0.9
JCT	Junio Junction	19.80 332	P	P	01 48 43.3 +0.7
	comp=Z,15nm,0.8s				
152A	Waverly Hall	19.91 12	P	Pn	01 48 45.8 -0.2
152A	Waverly Hall	19.91 12	P	Pn	01 48 45.8
LRAL	Lakeview Retre	19.94 6	P	Pn	01 48 45.4 -0.9
BRDY	Brady	20.15 335	IAMB	P	01 48 48.2
	comp=Z,27nm,0.7s				
FW13	Cleburne	20.53 340	IAMB	P	01 49 06.6
	comp=Z,21nm,0.7s				
ONZA	Ozona	20.79 330	IAMB	P	01 48 56.8
	comp=Z,13nm,0.7s				
Y49A	Blount Mountai	20.82 7	P	Pn	01 48 55.1 -1.5
CCAR	Cane Creek	20.82 354	IAMB	P	01 48 59.8
	comp=Z,20nm,0.7s				
TXAR	Lajitas Ar	20.91 323	P	P	01 48 56.5 +1.7
	comp=Z,3.2nm,0.4s,baz=141,slow=10,SNR=79				
TXAR	Lajitas Ar	20.91 323	P	P	01 53 02.1 +1.4
	comp=Z,0.2nm,0.5s,baz=114,slow=1.5,SNR=4				
TXAR	Lajitas Ar	20.91 323	P	P	01 56 35.0 +2.9
	comp=Z,0.5nm,0.9s,baz=120,slow=2.8,SNR=5.2				
TX31	Lajitas Ar	20.91 323	P	P	01 48 56.1 +1.3
FW07	Weatherford	20.97 340	IAMB	P	01 49 00.0
	comp=Z,22nm,0.6s				
Y52A	Liburn	21.00 12	IAMB	P	01 49 17.7
	comp=Z,9.9nm,0.6s				
PLPT	Palo Pinto	21.25 339	P	P	01 48 58.1 -0.2
PLPT	Palo Pinto	21.25 339	P	P	01 49 00.5
	comp=Z,20nm,0.7s				
BAUV	El Baul	21.31 99	P	P	01 48 59.4 +0.3
BAUV	El Baul	21.31 99	P	P	01 49 21.4
X48A	Hartselle	21.34 5	P	P	01 48 59.6 +0.5
FW03	Perrin-Whitt E	21.37 340	IAMB	P	01 49 29.9
	comp=Z,19nm,0.8s				
ABTX	Abilene, Hawle	21.58 336	IAMB	P	01 49 04.2
	comp=Z,15nm,0.7s				
MIAR	Mount Ida	21.67 350	IAMB	P	01 49 06.5
	comp=Z,17nm,0.7s				
UALR	University of	21.73 353	IAMB	P	01 49 07.3
	comp=Z,18nm,0.7s				
PLAL	Pickwick Lake	21.80 3	P	P	01 49 05.2 +1.1
MNHN	Monahans	21.94 328	IAMB	P	01 49 09.9
	comp=Z,12nm,0.7s				
WTF5	Witchita Falls	21.72 340	P	P	01 49 07.2 -0.9
WTF5	Witchita Falls	21.72 340	P	P	01 49 08.8
	comp=Z,18nm,0.7s				
SN05	Snyder 5	22.32 334	IAMB	P	01 49 11.5
	comp=Z,17nm,0.8s				
APMT	Aspermont	22.39 336	P	P	01 49 09.8 -0.8
APMT	Aspermont	22.39 336	P	P	01 49 11.2
	comp=Z,13nm,0.7s				
ODSA	Odessa	22.46 330	IAMB	P	01 49 12.3
	comp=Z,9.8nm,0.7s				
SN07	Snyder 07	22.50 334	IAMB	P	01 49 13.3
	comp=Z,11nm,0.6s				
LPIG	La Paz	22.64 302	LR	LR	01 56 54.4
	comp=Z,6.1nm,20.1s,baz=190,slow=33				
X34A	Smith Ranch, M	22.73 342	IAMB	P	01 49 17.1
	comp=Z,30nm,1.0s				
POST	Post	22.75 333	IAMB	P	01 49 16.7
	comp=Z,18nm,0.7s				
FCAR	Ozark Folk Cen	22.81 354	IAMB	P	01 49 17.2
	comp=Z,7nm,0.7s				
SJG	San Juan	22.87 75	LR	LR	01 59 25.8
	comp=Z,64nm,18.1s,baz=252,slow=40				
ATAH	Atahualpa	22.87 151	LR	LR	01 57 10.8
	comp=Z,60nm,18.6s,baz=312,slow=34				
LCAR	Lake Charles	22.91 356	IAMB	P	01 49 17.4
	comp=Z,9.8nm,0.7s				
TKLR	Tuckaleechee C	23.00 12	IAMB	P	01 49 33.4
	comp=Z,13nm,1.1s				
TKL	Tuckaleechee C	23.00 12	LR	LR	01 58 44.4
	comp=Z,14nm,1.9s,baz=193,slow=38				
KMSC	Kings Mountain	23.09 17	IAMB	P	01 49 40.6
	comp=Z,12nm,0.9s				
V53A	Saluda	23.21 14	IAMB	P	01 49 50.7
	comp=Z,14nm,1.0s				
U49A	Red Boiling Sp	23.51 7	IAMB	P	01 49 24.8
	comp=Z,10.0nm,0.8s				
OK029	Liberty Lake	23.73 343	IAMB	P	01 49 26.0
	comp=Z,14nm,0.6s				
T47A	Sharon Grove	23.85 4	IAMB	P	01 49 48.1
	comp=Z,16nm,0.8s				
T42A	Van Buren	23.86 357	IAMB	P	01 49 26.8
	comp=Z,13nm,0.7s				
CGM3	Cape Girardeau	24.08 359	IAMB	P	01 49 43.0
	comp=Z,9.9nm,0.8s				
MSTX	Muleshoe	24.08 332	IAMB	P	01 49 28.8
	comp=Z,9.9nm,0.8s				
PCRV	Puerto La Cruz	24.37 94	LR	LR	02 01 16.6
	comp=Z,10nm,18.2s,slow=42				
V58A	Windy Hill, Pi	24.39 20	IAMB	P	01 49 47.6
	comp=Z,26nm,1.0s				
S44A	Carbonate	24.47 0	IAMB	P	01 49 34.6
	comp=Z,14nm,0.8s				
SIUC	Southliff Hill	24.49 0	IAMB	P	01 49 53.6
	comp=Z,17nm,0.8s				
CROK	Carrier	24.55 343	IAMB	P	01 49 39.0
	comp=Z,13nm,0.7s				
OK038	West end E0370	24.74 342	IAMB	P	01 49 34.4
	comp=Z,17nm,0.7s				
FVM	French Village	24.78 358	IAMB	P	01 49 34.8
	comp=Z,7.6nm,0.6s				
CCM	Cathedral Cave	24.89 356	P	P	01 49 34.4 +0.1
CCM	Cathedral Cave	24.89 356	P	P	01 49 36.7
	comp=Z,10nm,0.7s				
KAN05	Bluff City Nor	25.08 344	IAMB	P	01 49 37.4
	comp=Z,14nm,0.7s				
WCI	Wyandotte Cave	25.15 6	P	P	01 49 36.3 -0.3
WCI	Wyandotte Cave	25.15 6	P	P	01 49 56.0 +3.8
	comp=Z,14nm,0.9s				
BLA	Blacksburg	25.28 17	sP	P	01 49 56.5 -4.6
Q44A	Beyer Farm Va	25.68 1	IAMB	P	01 49 46.7
	comp=Z,14nm,0.8s				
RTBA	Rita Blanca	25.65 335	IAMB	P	01 49 49.4
	comp=Z,8.1nm,0.6s				

LENM	Lemitar	26.37 326	P	P	01 49 49.3 +1.4
P40A	Paris	26.41 355	IAMB	P	01 49 48.2
	comp=Z,6.9nm,0.7s				
DUN6	Lazy B Ranch	26.47 320	IAMB	P	01 49 54.5
	comp=Z,11nm,0.8s				
P38A	Dawn	26.66 353	IAMB	P	01 49 52.4
	comp=Z,7.1nm,0.6s				
ANMO	Albuquerque	26.68 327	LR	LR	02 02 40.7
	comp=Z,42nm,18.7s,baz=256,slow=41				
Q54A	Coxs Mills	26.84 15	IAMB	P	01 49 52.5
	comp=Z,8.1nm,0.7s				
TUC	Tucson	27.40 318	P	P	01 50 10.7 +4.6
T25A	Trinidad	27.46 333	IAMB	P	01 50 00.6
	comp=Z,8.7nm,0.8s				
L40A	Anamosa	28.88 357	IAMB	P	01 50 11.9
	comp=Z,12nm,0.8s				
PV17	East Wray Mesa	30.53 329	IAMB	P	01 50 27.9
	comp=Z,7.5nm,0.7s				
PV10	Paradox Valley	30.59 329	IAMB	P	01 50 28.1
	comp=Z,5.6nm,0.7s				
PV14	Paradox Valley	30.64 329	IAMB	P	01 50 28.3
	comp=Z,6.7nm,0.7s				
PV23	Carpenet Ridg	30.69 329	IAMB	P	01 50 29.7
	comp=Z,7.8nm,0.8s				
I37A	Lemond, Waseca	30.98 354	IAMB	P	01 50 28.8
	comp=Z,9.9nm,0.7s				
O20A	White River Cr	31.63 332	IAMB	P	01 50 38.3
	comp=Z,7.7nm,20.5s,baz=192,slow=40				
PFO	Pinyon Flats O	32.02 314	LR	LR	02 05 42.4
	comp=Z,37nm,21.9s,baz=192,slow=40				
SADO	Sadowa	32.72 13	LR	LR	02 03 50.7
	comp=Z,7.5nm,20.5s,baz=192,slow=36				
K2					







AYVA		S	Sn	04 28 21.3 -3.0	ARG Arkhangelos	7.17 124 P	Pn	04 28 07.0 +3.4	VRAC Vranov	9.33 343	↑P	Pn	04 28 34.7 +1.3
DOB Dobož	4.71 336	ePn	Pn	04 27 29.6 -0.3	CFR Carcaliu	7.18 47	↑P	Pn	VRAC Vranov	9.33 343	P	Pn	04 28 34.7 +1.3
PAOL Paolisi	4.75 279	P	Pn	04 27 31.1 +0.6	CFR Carcaliu	7.18 47	Pn	Pn	SORM Soroca	9.40 33	↓P	Pn	04 28 36.0 +1.7
FRGS Fruska Gora	4.75 352	ePn	Pn	04 27 30.0 -0.5	LJU Ljubljana	7.21 323 P	Pn	04 28 03.4 -0.8	SORM Soroca	9.40 33	P	Pn	04 28 36.0 +1.7
JMB Yambol	4.78 63	P	Pn	04 27 31.6 +0.7	LJU Ljubljana	7.21 323 P	pmx	pmx	SORM Soroca	9.40 33	Pn	Pn	04 28 35.9 +1.6
JMB Yambol	4.78 63	P	Pn	04 27 31.6 +0.7	LJU Ljubljana	7.21 323 P	pmx	pmx	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BUHA Balikesir, Bur	4.94 99 P	S	Sn	04 27 34.2 +1.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BUHA Balikesir, Bur	4.94 99 P	S	Sn	04 27 34.2 +1.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
COPA Copaceana	4.94 40	↑P	Pn	04 27 34.9 +1.9	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ZEVE Zimir, Uria-Ze	4.96 115 P	P	Pn	04 27 35.0 +1.6	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
IZMD Zmir-Dikili	4.97 105 P	P	Pn	04 27 34.3 +0.7	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ANKY Antikythira Is	5.03 131 P	P	Pn	04 27 33.1 +0.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
APE Apeiranthos	5.03 131 P	P	Pn	04 27 34.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
APE Apeiranthos	5.03 131 P	P	Pn	04 27 34.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
APE Apeiranthos	5.03 131 P	P	Pn	04 27 34.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
APE Apeiranthos	5.03 131 P	P	Pn	04 27 34.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BLE Banja Luka	5.04 30 P	P	Pn	04 27 34.7 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ALY Banja Luka	5.04 30 P	P	Pn	04 27 34.7 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
SLATY Slatina	5.06 331 ePn	Pn	Pn	04 27 34.9 +0.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ZEDA Zmir-Bergama	5.09 105 P	P	Pn	04 27 36.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ZEDA Zmir-Bergama	5.09 105 P	P	Pn	04 27 36.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ZEDA Zmir-Bergama	5.09 105 P	P	Pn	04 27 36.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ZEDA Zmir-Bergama	5.09 105 P	P	Pn	04 27 36.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
A050A Klekovaca	5.10 323	↑P	Pn	04 27 35.8 +0.4	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
GZR Gura Zlata	5.15 39 P	P	Pn	04 27 36.5 +0.6	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
GZR Gura Zlata	5.15 39 P	P	Pn	04 27 36.5 +0.6	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BZS Buzias	5.20 7 P	↑P	Pn	04 27 35.8 -0.8	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BLCB Balcova	5.28 111 P	P	Pn	04 27 38.2 +0.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BALY Balya	5.30 96 P	P	Pn	04 27 39.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BALY Balya	5.30 96 P	P	Pn	04 27 39.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BALY Balya	5.30 96 P	P	Pn	04 27 39.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BALY Balya	5.30 96 P	P	Pn	04 27 39.6 +1.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
AG51A Mrakovica	5.37 329	↑P	Pn	04 27 41.3 +2.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
SURR Surduc	5.39 10 P	↑P	Pn	04 27 41.3 +2.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
INTR Introdacqua	5.40 289 P	Pn	Pn	04 27 39.8 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
HAGA Augusta	5.41 236	↑P	Pn	04 27 37.2 -2.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
PRIJ Prijedor	5.42 328 ePn	Pn	Pn	04 27 40.0 +0.4	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
STEP BALKESIR_Sava	5.45 39 P	P	Pn	04 27 41.7 +1.6	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
LOT Lotru	5.45 23 P	P	Pn	04 27 41.0 +0.8	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VIZE Kirkilareli, Vi	5.46 76 P	P	Pn	04 27 40.2 -0.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BKES Balkesir-Mer	5.46 95 P	P	Pn	04 27 41.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BKES Balkesir-Mer	5.46 95 P	P	Pn	04 27 41.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BKES Balkesir-Mer	5.46 95 P	P	Pn	04 27 41.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BKES Balkesir-Mer	5.46 95 P	P	Pn	04 27 41.6 +0.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
IMMV Iera Moni Meta	5.59 152 P	S	Sn	04 27 42.6 +0.8	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
BAND Balkesir-Ban	5.60 39 P	P	Pn	04 27 44.4 +2.3	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
DEV Deva	5.64 15	↑P	Pn	04 27 45.3 +2.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
DEV Deva	5.64 15	↑P	Pn	04 27 45.3 +2.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
DEV Deva	5.64 15	↑P	Pn	04 27 45.3 +2.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
PRD Provadia	5.65 59 P	P	Pn	04 27 45.3 +2.5	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
ARR Arges	5.67 29	↑P	Pn	04 27 45.2 +2.1	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
MTUR Matus	5.72 32 P	P	Pn	04 27 45.7 +1.8	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
MTUR Matus	5.72 32 P	P	Pn	04 27 45.7 +1.8	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 323 P	↑P	Sn	WTTA Wattenberg	9.47 319 P	pmx	Pn	04 28 35.6 +0.2
VAE Valguarnera	5.78 241 Pn	Pn	Pn	04 27 45.9 +0.2	LJU Ljubljana	7.21 32							

1d 4h

2019 JUN

Table with columns for station code, name, frequency, and signal strength. Includes stations like PRA Prague, CHVC Chvalec, LUBAR Lubar, etc.

Table with columns for station code, name, frequency, and signal strength. Includes stations like OFRI Ofer, MEM Membach, AMZ Amatzia, etc.

Table with columns for station code, name, frequency, and signal strength. Includes stations like OBN Obninsk, VRH Novokhopovsk, GNI Garni, etc.





1d 4h

KOOLE	Kule	63.12 181	i P	P	04 36 47.6 +0.8
OPO	Ambohidratompo	63.66 152	LR	LR	05 05 59.4
	comp=E,217nm,21.9s	baz=181,slow=37			
LPHEP	Lephephe	63.67 175	i P	P	04 36 51.3 +1.0
SKOMA	Sekoma	64.70 177	i P	P	04 36 57.4 +0.7
TNCH	TengChong	65.24 77	i P	P	04 37 06.6 +0.4
TNCH			sP	sP	04 39 26.0 +1.7
TNCH			PP	PP	04 45 44.6 0.0
TNCH			S	S	
TNCH	comp=E,230nm,3.3s		pmax	pmax	
TNCH	comp=E,1µm,19.0s		LR	LR	
TNCH	comp=E,1µm,21.3s		LR	LR	
TNCH	comp=E,270nm,21.3s		LR	LR	
LBTB	Lobatse	65.29 175	P	P	04 37 02.4 +1.5
LBTB			IAMB	IAMB	04 37 03.6
	comp=Z,16nm,0.9s				
LBTB	Lobatse	65.29 175	LR	LR	05 09 05.2
LBTB			P	P	04 37 02.4 +1.5
LBTB			pmax	pmax	
	comp=Z,16nm,0.9s				
A36M	Sachs Harbour	65.33 349	P	P	04 37 00.3 -0.2
TRQ	Mont Tremblant	65.42 311	IAMB	IAMB	04 37 06.1
	comp=Z,3.9nm,0.8s				
HHC	Hu-ho-hao-te	65.60 56	eP	P	04 37 02.8 -0.2
HHC			S	S	04 45 45.7 -2.8
HHC			ScS	ScS	04 46 56.3 -2.4
HHC			pmax	pmax	
HHC	comp=Z,11nm,0.7s				
HHC	comp=Z,190nm,5.2s		LR	LR	
HHC	comp=Z,420nm,12.6s		LR	LR	
HHC	comp=Z,390nm,13.1s		LR	LR	
HHC	comp=Z,380nm,16.5s		LR	LR	
PHEN	Phenepg	65.62 178	i P	P	04 37 03.7 +0.6
VLDQ	Val d'Or	66.01 313	IAMB	IAMB	04 37 10.6
	comp=Z,6.9nm,0.7s				
MAKGR	Makgori	66.03 176	i P	P	04 37 06.2 +0.5
ACCN	Adirondack Com	66.46 308	IAMB	IAMB	04 37 14.0
	comp=Z,9.1nm,0.8s				
XLT	XiLinHaoTe	66.70 52	eP	P	04 37 09.4 -0.6
XLT			sP	sP	04 37 15.6 +0.4
XLT			PcP	PcP	04 37 32.1 -6.9
XLT			pmax	pmax	
XLT	comp=Z,7.0nm,1.1s				
XLT	comp=Z,120nm,5.2s		LR	LR	
XLT	comp=Z,57nm,19.6s		LR	LR	
XLT	comp=Z,450nm,19.8s		LR	LR	
XLT	comp=Z,560nm,16.6s		LR	LR	
PZH	PanZhiHua	66.79 74	i P	P	04 37 09.9 -0.9
PZH			S	S	04 46 02.3 -1.0
PZH			pmax	pmax	
PZH	comp=Z,10.0nm,1.0s				
PZH	comp=Z,120nm,6.3s		LR	LR	
PZH	comp=Z,230nm,21.2s		LR	LR	
PZH	comp=Z,260nm,18.8s		LR	LR	
PZH	comp=Z,220nm,18.7s		LR	LR	
ZEAFCC	Zeya Fort Churchill	66.96 38	eP	P	04 37 12.3 +0.9
	comp=Z,110nm,0.9s				
XAN	Xi'an	67.63 64	i P	P	04 37 15.5 -0.5
XAN			sP	sP	04 37 20.5 +0.7
XAN			PcP	PcP	04 37 41.3 -1.7
XAN			S	S	04 46 10.5 -2.6
XAN			pmax	pmax	
XAN	comp=Z,24nm,0.7s				
XAN	comp=Z,280nm,5.7s		LR	LR	
XAN	comp=Z,550nm,21.3s		LR	LR	
XAN	comp=Z,500nm,16.5s		LR	LR	
XAN	comp=Z,470nm,21.3s		LR	LR	
J57A	Williamstown	67.85 309	IAMB	IAMB	04 37 22.1
	comp=Z,7.9nm,0.8s				
TIY	Taiyuan	67.91 59	P	P	04 37 17.5 -0.2
TIY			S	S	04 46 14.9 -1.5
TIY			pmax	pmax	
TIY	comp=Z,140nm,6.1s		LR	LR	
TIY	comp=Z,330nm,20.6s		LR	LR	
TIY	comp=Z,330nm,17.2s		LR	LR	
TIY	comp=Z,260nm,15.1s		LR	LR	
KMI	Kunming	68.31 75	P	P	04 37 24.8 +4.2
KMI			S	S	04 46 25.3 +3.4
KMI			pmax	pmax	
KMI	comp=Z,7.0nm,0.5s		LR	LR	
KMI	comp=Z,170nm,18.0s		LR	LR	
KMI	comp=Z,200nm,17.3s		LR	LR	
KMI	comp=Z,250nm,19.8s		LR	LR	
A21K	Barrow	68.51 359	P	P	04 37 19.7 -1.1
BUKO	Buck Lake	68.64 312	IAMB	IAMB	04 38 05.3
	comp=Z,17nm,1.4s				
BILL	Bilibino	68.76 13	P	P	04 37 22.0 -0.5
BILL	Bilibino	68.76 13	ceP	P	04 37 22.3 -0.1
BILL			pmax	pmax	
BILL	comp=Z,8.0nm,1.0s		MLR	MLR	
BILL	comp=Z,300nm,25.0s				
A22K	Sinclair Lake	68.81 359	P	P	04 37 21.3 -1.3
	comp=Z,3.5s				
BOSA	Boshof	68.84 176	P	P	04 37 23.6 +0.1
	comp=Z,17nm,0.8s, baz=2.1, slow=6.6, SNR=39		LR	LR	05 08 46.6
BOSA					
	comp=Z,340nm,21.9s, baz=1.5, slow=37				
SADO	Sadowa	68.89 311	LR	LR	05 08 00.6
	comp=Z,41nm,18.1s, baz=108, slow=36				
HEH	Heihe	69.19 41	eP	sP	04 37 24.7 -0.7
HEH			S	S	04 37 31.0 +0.4
HEH			S	S	04 46 30.7 -0.3
HEH			pmax	pmax	
HEH	comp=Z,11nm,0.8s				
HEH	comp=Z,200nm,5.4s		LR	LR	
HEH	comp=Z,1µm,21.8s		LR	LR	
HEH	comp=Z,760nm,21.6s		LR	LR	
HEH	comp=Z,340nm,21.4s		LR	LR	
CMAR	Chiang Mai Arr	69.40 83	P	P	04 37 26.0 -1.2
	comp=Z,1.5nm,0.3s, baz=306, slow=7.5, SNR=9.5				
CMAR			LR	LR	05 13 01.1
CMAR	comp=Z,76nm,19.3s, baz=290, slow=40				
CMAR	comp=Z,1.5nm,0.3s				
B22K	Teshkupuk Lake	69.44 358	P	P	04 37 25.9 -0.7
	comp=Z,4.8s				
C26K	Camden Bay	69.44 355	P	P	04 37 25.0 -1.6
	comp=Z,12s				
D28M	Stokes Point	69.49 352	P	P	04 37 24.8 -2.1
	comp=Z,17s				
L56A	Greenwood	69.52 308	IAMB	IAMB	04 37 32.7
	comp=Z,13nm,1.0s				
HNS	HongShan	69.56 58	i P	P	04 37 32.4 +4.5
HNS			S	S	04 46 40.1 +4.2
HNS			pmax	pmax	
HNS	comp=Z,10.0nm,0.9s		LR	LR	
HNS	comp=Z,450nm,17.1s		LR	LR	
HNS	comp=Z,280nm,17.1s		LR	LR	
HNS	comp=Z,290nm,17.6s		LR	LR	

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C27K	Jago River	69.64 354	P	P	04 37 26.9 -1.0
	comp=Z,13nm,0.7s		LR	LR	
M57A	Sunshine Farm, LuoYang	69.74 307	IAMB	IAMB	04 37 34.1
	comp=Z,13nm,0.8s				
LYN		69.74 62	pP	sP	04 37 30.3 +1.2
LYN			sP	sP	04 37 34.3 0.0
LYN			sP	sP	04 37 37.5 +4.6
LYN			S	S	04 46 39.4 +1.3
LYN			sS	sS	04 46 44.9 +0.6
LYN			pmax	pmax	
LYN	comp=Z,13nm,0.7s		LR	LR	
LYN	comp=Z,520nm,15.1s		LR	LR	
LYN	comp=Z,550nm,18.5s		LR	LR	
LYN	comp=Z,600nm,13.7s		LR	LR	
D27M	Malcolm River	69.78 353	P	P	04 37 27.7 -1.2
	comp=Z,15s				
B20K	Meade River	69.84 359	P	P	04 37 28.4 -0.7
	comp=Z,17s				
C23K	Ikilik River	69.84 357	P	P	04 37 28.6 -0.5
	comp=Z,7.0s				
INK	Inuvik	69.86 350	LR	LR	05 11 26.5
	comp=Z,291nm,18.6s, baz=28, slow=39				
INK	Inuvik	69.86 350	P	P	04 37 28.1 -1.0
	comp=Z,291nm,18.6s, baz=28, slow=39				
C24K	Franklin Bluff	69.87 356	P	P	04 37 28.4 -0.8
	comp=Z,8s				
SEY	Seymchan	69.94 21	LR	LR	05 11 47.6
	comp=Z,371nm,19.3s, baz=339, slow=39				
SEY	Seymchan	69.94 21	ceP	P	04 37 29.7 -0.1
	comp=Z,371nm,19.3s, baz=339, slow=39				
SEY			pmax	pmax	
WVNY	West Valley, N	69.99 309	IAMB	IAMB	04 37 35.5
	comp=Z,14nm,0.7s				
D25K	Kavik River	70.13 355	P	P	04 37 30.1 -0.8
	comp=Z,14nm,0.7s				
B21K	Ikpiqkuk River	70.19 358	P	P	04 37 31.1 0.0
	comp=Z,3.8s				
E28M	Babbage River	70.27 352	P	P	04 37 30.8 -1.0
	comp=Z,15s				
E29M	Blow River	70.30 352	IAMB	IAMB	04 37 38.0
	comp=Z,14nm,0.7s				
E29M	Blow River	70.30 352	P	P	04 37 31.4 -0.5
	comp=Z,17s				
GYA	Guyang	70.40 72	i P	S	04 37 37.4 +4.0
GYA			S	S	04 46 43.7 -2.6
GYA			pmax	pmax	
GYA	comp=Z,220nm,0.8s				
GYA	comp=Z,170nm,5.3s		LR	LR	
GYA	comp=Z,290nm,27.7s		LR	LR	
GYA	comp=Z,220nm,35.1s		LR	LR	
GYA	comp=Z,190nm,21.7s		LR	LR	
D24K	Happy Valley	70.44 356	P	P	04 37 32.4 -0.4
	comp=Z,8s				
B18K	Kokolik River	70.48 1	P	P	04 37 32.7 -0.4
	comp=Z,358s				
SSPA	Standing Stone	70.62 307	P	P	04 37 34.1 -0.3
SSPA			IAMB	IAMB	04 37 39.4
C21K	Knifeblade Rid	70.66 358	P	P	04 37 34.0 -0.1
	comp=Z,3.6s				
F31M	Tsigientchic	70.70 350	P	P	04 37 34.0 -0.4
	comp=Z,20s				
D23K	Nanushuk River	70.71 357	IAMB	IAMB	04 37 47.3
	comp=Z,18nm,0.8s				
D23K	Nanushuk River	70.71 357	P	P	04 37 34.2 -0.3
	comp=Z,18nm,0.8s				
C19K	Lookout Ridge	70.76 0	P	P	04 37 34.0 -0.8
	comp=Z,30s				
F30M	Barrier River	70.80 351	P	P	04 37 34.6 -0.4
	comp=Z,19s				
E27K	Coleen River	70.87 353	P	P	04 37 34.8 -0.7
	comp=Z,14s				
G22K	Aiyikuk River	70.88 357	P	P	04 37 34.6 -0.9
	comp=Z,5.3s				
ERPA	Erie	70.98 309	IAMB	IAMB	04 37 41.4
	comp=Z,13nm,0.8s				
TOLK	Toolik Lake Re	70.98 356	P	P	04 37 35.8 -0.4
	comp=Z,7.8s				
D20K	Etiulik River	71.13 359	IAMB	IAMB	

CNSH	comp=Z,200nm,21.4s	LR	LR		
CNSH	comp=Z,200nm,19.2s	LR	LR		
G18K	comp=Z,240nm,18.2s Tagagawik 73.98 360	Iamb	Iamb	04 38 00.3	
G18K	comp=Z,12nm,0.9s Tagagawik 73.98 360	P	P	04 37 52.9 -1.1	
ULM	comp=Z,18nm,0.9s Lac du Bonnet 73.99 323	Iamb	Iamb	04 37 59.8	
ULM	comp=Z,12nm,0.7s, baz=42, slow=5.2, SNR=19	P	P	04 37 54.4 +0.1	
ULM	comp=Z,730nm,20.7s, baz=42, slow=36	LR	LR	05 10 36.8	
ULM	comp=Z,12nm,0.7s Lac du Bonnet 73.99 323	P	P	04 37 54.0 -0.3	
F15K	comp=Z,12nm,0.7s North Star Dit 74.02 2	P	P	04 37 54.1 -0.6	
MDP	comp=Z,146nm,20.2s Montagnes des 74.09 263	LR	LR	05 08 24.0	
T2A	comp=Z,14nm,0.8s Melozitna Rive 74.10 357	Iamb	Iamb	04 38 10.1	
H21K	comp=Z,14nm,0.8s Melozitna Rive 74.10 357	P	P	04 37 54.2 -0.6	
J29N	comp=Z,12nm,0.7s Klondike Camp 74.12 351	P	P	04 37 54.1 -0.9	
N49A	comp=Z,12nm,0.7s Columbus Grove 74.18 310	Iamb	Iamb	04 37 59.9	
F14K	comp=Z,12nm,0.7s Arctic Creek 74.26 3	P	P	04 37 55.1 -0.5	
Q52A	comp=Z,17nm,1.1s Bidwell 74.30 308	Iamb	Iamb	04 38 03.1	
H19K	comp=Z,17nm,1.1s Roundabout Mou 74.33 359	P	P	04 37 55.3 -0.7	
H20K	comp=Z,17nm,1.1s Anotleneega Mo 74.33 358	P	P	04 37 55.4 -0.7	
POKR	comp=Z,17nm,1.1s Poker Plat Res 74.36 355	P	P	04 37 55.7 -0.6	
G17K	comp=Z,17nm,1.1s Kiwalik Mouta 74.37 1	P	P	04 37 55.2 -1.1	
I23K	comp=Z,17nm,1.1s Minto, Yukon-K 74.45 356	P	P	04 37 56.0 -0.7	
G16K	comp=Z,17nm,1.1s Koyuk River 74.46 1	Iamb	Iamb	04 38 03.1	
G16K	comp=Z,17nm,1.1s Koyuk River 74.46 1	P	P	04 37 56.6 -0.2	
I21K	comp=Z,19nm,1.1s Tanana 74.55 357	Iamb	Iamb	04 38 14.6	
I21K	comp=Z,19nm,1.1s Tanana 74.55 357	P	P	04 37 57.0 -0.3	
K29M	comp=Z,19nm,1.1s Barlow Dome 74.62 350	P	P	04 37 57.4 -0.5	
DAWY	comp=Z,25nm,1.3s Dawson 74.64 351	Iamb	Iamb	04 38 03.4	
DAWY	comp=Z,25nm,1.3s Dawson 74.64 351	P	P	04 37 57.1 -0.9	
MLY	comp=Z,34nm,1.6s Manley 74.64 356	Iamb	Iamb	04 38 03.9	
MLY	comp=Z,34nm,1.6s Manley 74.64 356	P	P	04 37 56.9 -1.1	
J26L	comp=Z,35nm,1.6s Joseph Creek 74.66 353	P	P	04 37 57.6 -0.5	
ILAR	comp=Z,35nm,1.6s Eielson Array 74.66 355	P	P	04 37 58.4 +0.4	
ILAR	comp=Z,35nm,1.6s Eielson Array 74.66 355	P	P	04 37 58.2 +0.1	
ILAR	comp=Z,1.1nm,0.7s, baz=0.6, slow=3.8, SNR=20	LR	LR	05 12 52.0	
ILAR	comp=Z,139nm,19.5s, baz=13, slow=37	LR	LR		
ILAR	comp=Z,1.1nm,0.7s Eielson Array 74.66 355	P	P	04 37 58.4 +0.4	
J25K	comp=Z,1.1nm,0.7s Salcha River 74.70 354	P	P	04 37 58.8 +0.5	
J25K	comp=Z,1.1nm,0.7s Salcha River 74.70 354	P	P	04 37 57.8 -0.5	
H18K	comp=Z,1.1nm,0.7s Honhosa River 74.73 360	Iamb	Iamb	04 38 04.9	
H18K	comp=Z,1.1nm,0.7s Honhosa River 74.73 360	P	P	04 37 57.6 -0.8	
O49A	comp=Z,21nm,0.8s Covington 74.75 310	Iamb	Iamb	04 38 03.0	
G15K	comp=Z,21nm,0.8s Niukluk 74.82 2	P	P	04 37 58.8 -0.1	
MMPY	comp=Z,25nm,1.4s Sheldon Lake 74.84 347	Iamb	Iamb	04 38 05.6	
MMPY	comp=Z,25nm,1.4s Sheldon Lake 74.84 347	P	P	04 37 58.8 -0.3	
Q51A	comp=Z,12nm,0.7s Peebles 74.91 309	Iamb	Iamb	04 38 11.6	
H17K	comp=Z,12nm,0.7s Granite Mouta 74.94 0	P	P	04 37 59.3 -0.3	
K27K	comp=Z,24nm,1.3s Chicken 74.97 352	Iamb	Iamb	04 38 05.8	
K27K	comp=Z,24nm,1.3s Chicken 74.97 352	P	P	04 37 59.2 -0.6	
NEA2	comp=Z,24nm,1.3s Nenana 74.98 355	P	P	04 37 59.1 -0.8	
I20K	comp=Z,24nm,1.3s Naaghedeneel 75.02 358	P	P	04 37 59.5 -0.5	
HDA	comp=Z,21nm,0.8s Harding Lake 75.03 355	Iamb	Iamb	04 38 14.3	
HDA	comp=Z,21nm,0.8s Harding Lake 75.03 355	P	P	04 37 59.7 -0.5	
N47A	comp=Z,11nm,0.7s Urbana 75.08 311	Iamb	Iamb	04 38 04.8	
GCSA	comp=Z,11nm,0.7s Galena City Sc 75.12 359	P	P	04 37 59.9 -0.7	
O48B	comp=Z,9.7nm,0.7s Farmland 75.18 310	Iamb	Iamb	04 38 05.3	
ANM	comp=Z,9.7nm,0.7s Nome 75.21 3	P	P	04 38 00.3 -0.9	
SCRK	comp=Z,12nm,0.9s Sand Creek 75.21 353	P	P	04 38 00.5 -0.8	
H16K	comp=Z,12nm,0.9s Elim 75.22 1	P	P	04 38 00.8 -0.4	
TG2N	comp=Z,12nm,0.9s Hyland Airport 75.30 345	P	P	04 38 01.3 -0.6	
L29M	comp=Z,12nm,0.9s L29M 75.41 350	P	P	04 38 02.0 -0.4	
USRK	comp=Z,4.3nm,0.8s, baz=27.6, slow=5.2, SNR=7.2	P	P	04 38 02.7 -0.5	
NJ2	comp=Z,4.3nm,0.8s Nanjing 75.51 60	eP	eP	04 38 01.8 -1.6	
RIDG	comp=Z,13nm,0.5s Independent Ri 75.52 353	Iamb	Iamb	04 38 08.7	
RIDG	comp=Z,13nm,0.5s Independent Ri 75.52 353	P	P	04 38 02.2 -0.9	
K24K	comp=Z,13nm,0.5s Donnelly Dome 75.53 354	Iamb	Iamb	04 38 19.9	
K24K	comp=Z,13nm,0.5s Donnelly Dome 75.53 354	P	P	04 38 02.2 -0.9	
DOT	comp=Z,13nm,0.5s Dot Lake 75.54 353	Iamb	Iamb	04 38 08.9	
FARO	comp=Z,13nm,0.5s Faro, Yukon 75.55 348	P	P	04 38 02.6 -0.6	
BPAW	comp=Z,13nm,0.5s Bear Paw Mtn. 75.58 356	P	P	04 38 02.9 -0.4	
J20K	comp=Z,13nm,0.5s Nowinta River 75.63 358	P	P	04 38 03.2 -0.3	
GAMB	comp=Z,13nm,0.5s Gambell 75.64 6	P	P	04 38 03.1 -0.5	
KOTAN	comp=Z,13nm,0.5s Kotaneleele Air 75.68 343	P	P	04 38 02.9 -1.1	
M31M	comp=Z,13nm,0.5s Drury Creek, Y 75.74 348	Iamb	Iamb	04 38 11.0	
M31M	comp=Z,13nm,0.5s Drury Creek, Y 75.74 348	P	P	04 38 03.2 -1.1	
M31K	comp=Z,14nm,1.0s McKinley 75.83 355	Iamb	Iamb	04 38 19.1	
MCK	comp=Z,14nm,1.0s McKinley 75.83 355	P	P	04 38 03.5 -1.3	
J19K	comp=Z,14nm,1.0s Poorman 75.85 358	P	P	04 38 04.3 -0.6	
P48A	comp=Z,8.6nm,0.7s Milroy 75.86 310	Iamb	Iamb	04 38 09.0	
CHUM	comp=Z,8.6nm,0.7s Lake Minchumir 75.86 357	P	P	04 38 04.3 -0.6	
BEAVL	comp=Z,8.6nm,0.7s Fort Liard 75.86 343	P	P	04 38 04.4 -0.6	
BCAR	comp=Z,8.6nm,0.7s Beaver Creek A 75.88 352	Iamb	Iamb	04 38 06.1 +1.0	
L27K	comp=Z,17nm,1.2s Beaver Creek 75.89 352	Iamb	Iamb	04 38 11.2	
L27K	comp=Z,17nm,1.2s Beaver Creek 75.89 352	P	P	04 38 03.7 -1.4	
H17K	comp=Z,14nm,1.0s Unalakleet 75.99 1	P	P	04 38 04.4 -1.2	

M29M	comp=Z,14nm,0.8s Somme Creek 76.09 350	Iamb	Iamb	04 38 09.1	
M29M	comp=Z,14nm,0.8s Somme Creek 76.09 350	P	P	04 38 05.0 -1.4	
SJG	comp=Z,99nm,21.8s, baz=44, slow=31	LR	LR	05 05 16.2	
TRF	comp=Z,34nm,1.8s Thorofare Moun 76.19 356	Iamb	Iamb	04 39 01.1	
TRF	comp=Z,34nm,1.8s Thorofare Moun 76.19 356	P	P	04 38 05.8 -1.2	
CAST	comp=Z,34nm,1.8s Castle Rocks 76.31 357	P	P	04 38 06.5 -1.1	
PAX	comp=Z,34nm,1.8s Paxson 76.33 354	P	P	04 38 06.1 -1.6	
DHY	comp=Z,17nm,0.9s Denali Highway 76.38 354	Iamb	Iamb	04 38 22.6	
DHY	comp=Z,17nm,0.9s Denali Highway 76.38 354	P	P	04 38 06.6 -1.5	
J18K	comp=Z,18nm,1.1s Innok River 76.40 359	Iamb	Iamb	04 38 25.1	
J18K	comp=Z,18nm,1.1s Innok River 76.40 359	P	P	04 38 07.1 -0.9	
BVCY	comp=Z,14nm,0.8s Beaver Creek 76.41 351	P	P	04 38 06.8 -1.3	
K20K	comp=Z,12nm,0.9s Telida 76.45 358	Iamb	Iamb	04 38 14.6	
K20K	comp=Z,12nm,0.9s Telida 76.45 358	P	P	04 38 07.1 -1.2	
J17K	comp=Z,17nm,1.0s VABM Dome 76.49 360	Iamb	Iamb	04 38 25.5	
J17K	comp=Z,17nm,1.0s VABM Dome 76.49 360	P	P	04 38 07.4 -1.1	
N32M	comp=Z,20nm,1.3s Quiet Lake 76.52 347	P	P	04 38 07.7 -1.1	
L42A	comp=Z,25nm,1.4s Oliver, Polo 76.57 314	Iamb	Iamb	04 40 53.1	
M27K	comp=Z,15nm,1.1s Edge Creek, AK 76.58 352	Iamb	Iamb	04 38 23.7	
M27K	comp=Z,15nm,1.1s Edge Creek, AK 76.58 352	P	P	04 38 07.4 -1.8	
J16K	comp=Z,12nm,0.8s Anvik River 76.60 1	P	P	04 38 09.9 +0.8	
J16K	comp=Z,12nm,0.8s Anvik River 76.60 1	Iamb	Iamb	04 38 15.3	
J16K	comp=Z,12nm,0.8s Anvik River 76.60 1	P	P	04 38 08.5 -0.6	
N31M	comp=Z,26nm,1.1s Braeburn, Yuko 76.64 349	Iamb	Iamb	04 38 14.6	
N31M	comp=Z,26nm,1.1s Braeburn, Yuko 76.64 349	P	P	04 38 08.3 -1.1	
M26K	comp=Z,22nm,1.3s Nabesna, AK 76.66 352	Iamb	Iamb	04 38 15.4	
M26K	comp=Z,22nm,1.3s Nabesna, AK 76.66 352	P	P	04 38 08.0 -1.6	
BLO	comp=Z,16nm,0.7s Bloomington 76.69 310	Iamb	Iamb	04 38 14.3	
WAT1	comp=Z,16nm,0.7s Susitna Watana 76.70 355	P	P	04 38 08.9 -0.9	
LIRD	comp=Z,11nm,0.6s Liard River Hi 76.78 343	P	P	04 38 09.3 -1.0	
PPLA	comp=Z,11nm,0.6s Purkeypile 76.84 357	Iamb	Iamb	04 38 23.8	
PPLA	comp=Z,11nm,0.6s Purkeypile 76.84 357	P	P	04 38 09.6 -1.1	
N30M	comp=Z,24nm,1.6s Aishulik Lake 76.85 349	Iamb	Iamb	04 38 16.3	
N30M	comp=Z,24nm,1.6s Aishulik Lake 76.85 349	P	P	04 38 09.0 -1.7	
HARP	comp=Z,16nm,0.7s HARP 76.87 353	P	P	04 38 09.0 -1.6	
WAT6	comp=Z,16nm,0.7s Susitna Watana 76.89 355	P	P	04 38 10.4 -0.6	
TTA	comp=Z,15nm,2.0s Tatalina 76.93 358	Iamb	Iamb	04 38 17.7	
TTA	comp=Z,15nm,2.0s Tatalina 76.93 358	P	P	04 38 09.7 -1.3	
YUK3	comp=Z,15nm,2.0s Moose Creek 76.99 351	P	P	04 38 10.1 -1.6	
J14K	comp=Z,15nm,2.0s Nanvanarak Lak 77.08 2	P	P	04 38 10.7 -1.1	
TOAD	comp=Z,15nm,2.0s Toad River Com 77.10 343	P	P	04 38 11.2 -0.9	
K17K	comp=Z,15nm,0.8s Iditarod 77.17 360	Iamb	Iamb	04 38 29.8	
K17K	comp=Z,15nm,0.8s Iditarod 77.17 360	P	P	04 38 11.3 -1.0	
WCI	comp=Z,16nm,0.8s Wyandotte Cave 77.17 309	P	P	04 38 12.7 -0.1	
WCI	comp=Z,16nm,0.8s Wyandotte Cave 77.17 309	Iamb	Iamb	04 38 17.2	
WCI	comp=Z,16nm,0.8s Wyandotte Cave 77.17 309	P	P	04 38 12.7 -0.1	
YUK4	comp=Z,16nm,0.8s Talbot Arm 77.17 350	P	P	04 38 11.0 -1.7	
QIZ	comp=Z,190nm,6.7s Qiongzhong 77.22 76	P	P	04 38 13.2 -0.2	
QIZ	comp=Z,190nm,6.7s Qiongzhong 77.22 76	S	S	04 48 02.5 -0.7	
QIZ	comp=Z,190nm,6.7s Qiongzhong 77.22 76	LR	LR		
QIZ	comp=Z,200nm,19.1s Qiongzhong 77.22 76	LR	LR		
M24K	comp=Z,210nm,18.6s Tolsona, Glenn 77.24 354	P	P	04 38 11.2 -1.7	
WHY	comp=Z,210nm,18.6s Whitehorse 77.28 348	P	P	04 38 11.6 -1.5	
L19K	comp=Z,210nm,18.6s Farewell, AK 77.32 357	P	P	04 38 11.6 -1.6	
TKL	comp=Z,210nm,18.6s Tuckaleechee C 77.35 306	LR	LR	05 14 04.9	
P33M	comp=Z,27nm,18.3s, baz=54, slow=37	P	P	04 38 12.2 -1.4	
Q30N	comp=Z,27nm,18.3s Mendenhall 77.36 349	P	P	04 38 12.8 -0.7	
L40A	comp=Z,16nm,0.9s Anamosa 77.37 315	Iamb	Iamb	04 38 19.2	
YUK8	comp=Z,16nm,0.9s Steele Glacier 77.38 351	P	P	04 38 11.2 -2.6	
HYT	comp=Z,15nm,1.1s Haines Junctio 77.52 349	Iamb	Iamb	04 38 32.0	
HYT	comp=Z,15nm,1.1s Haines Junctio 77.52 349	P	P	04 38 11.9 -2.6	
YUK6	comp=Z,15nm,1.1s Outpost Mouta 77.53 50	P	P	04 38 12.6 -2.0	
K15K	comp=Z,15nm,1.1s Wolf Creek Mou 77.58 1	P	P	04 38 13.2 -1.5	
N25K	comp=Z,30nm,1.4s Chitina, Valde 77.60 353	P	P	04 38 13.9 -1.0	
N25K	comp=Z,30nm,1.4s Chitina, Valde 77.60 353	Iamb	Iamb	04 38 31.1	
N25K	comp=Z,30nm,1.4s Chitina, Valde 77.60 353	P	P	04 38 13.7 -1.2	
SCM	comp=Z,30nm,1.4s Sheep Creek Mo 77.61 354	Iamb	Iamb	04 38 20.6	
SCM	comp=Z,30nm,1.4s Sheep Creek Mo 77.61 354	P	P	04 38 13.2 -1.7	
L19K	comp=Z,16nm,0.9s White Mountain 77.65 358	Iamb	Iamb	04 38 26.9	
L19K	comp=Z,16nm,0.9s White Mountain 77.65 358	P	P	04 38 13.9 -1.2	
L18K	comp=Z,12nm,0.8s Granite Mouta 77.65 359	Iamb	Iamb	04 38 21.6	
L18K	comp=Z,12nm,0.8s Granite Mouta 77.65 359	P	P	04 38 14.2 -0.8	
MCARA	comp=Z,12nm,0.8s McCarthy VSAT 77.66 352	P	P	04 38 13.7 -1.4	
SML	comp=Z,12nm,0.9s Sawmill 77.70 355	Iamb	Iamb	04 38 33.1	
SML	comp=Z,12nm,0.9s Sawmill 77.70 355	P	P	04 38 13	





Table with columns: Station Name, Frequency, Power, Mode, and Signal Quality. Includes stations like AQU L'Aquila, CIGN Mrgy, HUNGAR, etc.

Table with columns: Station Name, Frequency, Power, Mode, and Signal Quality. Includes stations like HOLU Holmets, AKAS Kas, VYHS Vyhne, etc.

Table with columns: Station Name, Frequency, Power, Mode, and Signal Quality. Includes stations like DPC Dobruska-Polom, DPC Dava, DAVA Danuels, etc.





E18K	Tukpahlearkir C	72.39	1	P	P	04 44 32.1	-0.3
H29M	Whitestone	72.39	351	Iamb	Iamb	04 45 38.5	
H29M	Whitestone	72.39	351	P	P	04 44 31.9	-0.6
F21K	Alatina River	72.51	358	P	P	04 44 32.3	-0.9
G25K	Bearman Lake	72.58	355	P	P	04 44 33.8	+0.3
E17K	Hotham Inlet	72.72	1	P	P	04 44 33.7	-0.6
H27K	Steamboat Moun	72.72	353	P	P	04 44 33.9	-0.6
G22K	Bettles	72.73	357	P	P	04 44 33.8	-0.7
F20K	Avaraat Lake	72.74	359	P	P	04 44 33.2	-1.3
G24K	Hadweenciz Riv	72.74	355	P	P	04 44 33.5	-1.0
WRGLY	Wrigley	72.75	344	P	P	04 44 33.4	-1.2
G23K	Bananza Creek	72.88	356	P	P	04 44 34.2	-1.3
F19K	Shaleruckik Mo	72.98	359	P	P	04 44 34.5	-1.4
H25L	Birch Creek	73.06	354	P	P	04 44 35.2	-1.2
I30M	Mount Dempster	73.11	350	P	P	04 44 35.3	-1.6
I29M	Ogilvie Camp	73.21	351	Iamb	Iamb	04 44 39.3	
I29M	Ogilvie Camp	73.21	351	P	P	04 44 36.3	-1.1
G21K	Allakaket	73.22	358	Iamb	Iamb	04 44 46.6	
G21K	Allakaket	73.22	358	P	P	04 44 36.6	-0.8
F18K	Selawik	73.22	0	P	P	04 44 36.6	-0.7
I28M	Miner Creek	73.31	352	P	P	04 44 36.9	-1.2
I27K	Kandik River	73.34	352	P	P	04 44 37.1	-1.1
F17K	Baldwin Pennin	73.36	1	P	P	04 44 37.0	-1.2
EPL0	Experimental L	73.38	322	Iamb	Iamb	04 44 39.8	
H24K	Noodor Dome	73.62	355	P	P	04 44 38.8	-1.1
G19K	Purcell Mounta	73.67	359	P	P	04 44 39.0	-1.0
J30M	Hart River	73.72	350	Iamb	Iamb	04 44 50.6	
J30M	Hart River	73.72	350	P	P	04 44 40.1	-0.4
H23K	Yukon River	73.73	356	P	P	04 44 39.2	-1.2
H22K	Ishtalinta Cre	73.76	357	P	P	04 44 39.6	-1.0
PRP	Porcupine Dome	73.77	354	P	P	04 44 39.4	-1.4
I26K	Coal Creek Min	73.78	353	P	P	04 44 39.3	-1.4
G18K	Tagagawik	73.93	360	Iamb	Iamb	04 44 58.7	
G18K	Tagagawik	73.93	360	P	P	04 44 39.7	-1.9
ULM	Lac du Bonnet	73.97	323	Iamb	Iamb	04 44 43.1	
ULM	Lac du Bonnet	73.97	323	P	P	04 44 41.8	-0.3
ULM	Lac du Bonnet	73.97	323	eP	pmax	04 44 40.8	-1.3
F15K	North Star Dit	74.03	2	P	P	04 44 40.0	-2.1
TNA	Tin City	74.04	4	P	P	04 44 41.3	-0.9
H21K	Melozitna Rive	74.05	357	Iamb	Iamb	04 44 52.7	
H21K	Melozitna Rive	74.05	357	P	P	04 44 40.9	-1.4
F14K	Arctic Creek	74.20	3	P	P	04 44 42.2	-1.0
H19K	Roundabout Mou	74.28	359	Iamb	Iamb	04 44 54.5	
H19K	Roundabout Mou	74.28	359	P	P	04 44 43.3	-0.3
H20K	Anotleneega Mo	74.28	358	P	P	04 44 42.6	-1.0
POKR	Poker Plat Res	74.31	355	P	P	04 44 43.1	-0.7
G17K	Kiwalik Mounta	74.32	1	P	P	04 44 43.1	-0.8
I23K	Minto, Yukon-K	74.40	356	P	P	04 44 43.2	-1.1
G16K	Koyuk River	74.40	1	P	P	04 44 43.3	-1.0
I21K	Tanana	74.50	357	P	P	04 44 43.5	-1.4
K29M	Barlowe Dome	74.58	350	P	P	04 44 43.8	-1.8
MLY	Manley	74.59	356	P	P	04 44 44.4	-1.1
DAWY	Dawson	74.59	351	Iamb	Iamb	04 44 55.6	
DAWY	Dawson	74.59	351	P	P	04 44 44.6	-1.0
J26L	Joseph Creek	74.61	353	P	P	04 44 44.6	-1.0
ILAR	Eielson Array	74.61	355	P	P	04 44 46.3	+0.7
J25K	Salcha River,	74.65	354	P	P	04 44 44.7	-1.2
H18K	Honhosa River	74.67	360	P	P	04 44 44.6	-1.4
G15K	Niukluk	74.76	2	P	P	04 44 45.4	-1.0
H17K	Granite Mounta	74.89	0	P	P	04 44 46.6	-0.6
K27K	Chicken	74.92	352	Iamb	Iamb	04 44 58.0	
K27K	Chicken	74.92	352	P	P	04 44 46.6	-0.8
NEA2	Nenana	74.93	356	P	P	04 44 46.4	-1.0
I20K	Naaghedeneel	74.97	358	P	P	04 44 46.0	-1.6
HDA	Harding Lake	74.97	355	Iamb	Iamb	04 44 55.4	
HDA	Harding Lake	74.97	355	P	P	04 44 46.9	-0.8
WRH	Wood River Hill	74.99	355	Iamb	Iamb	04 44 57.4	
GCSA	Galena City Sc	75.07	359	P	P	04 44 47.3	-0.8
SCRK	Sand Creek	75.16	353	Iamb	Iamb	04 44 51.5	
SCRK	Sand Creek	75.16	353	P	P	04 44 48.4	-0.5
H16K	Elim	75.16	1	P	P	04 44 46.8	-1.9
AGMN	Agassiz Nation	75.35	322	L29M	P	04 44 50.2	+0.1
L29M	L29M	75.36	350	P	P	04 44 48.2	-1.8
USRK	Ussuriysk Ar.	75.42	44	P	P	04 44 49.5	-1.2
USRK	Ussuriysk Ar.	75.42	44	P	P	04 44 49.3	-1.3
USRK	Ussuriysk Ar.	75.42	44	eP	pmax	04 44 50.0	-0.6
NJ2	Nanjing	75.44	60	eP	pmax	04 44 51.4	+0.5
RJ2	Independent Ri	75.47	353	Iamb	Iamb	04 45 00.9	
RIDG	Independent Ri	75.47	353	P	P	04 44 49.1	-1.5
K24K	Donnelly Dome	75.48	354	P	P	04 44 48.7	-2.0
FARO	Faro, Yukon	75.51	348	Iamb	Iamb	04 45 08.7	
FARO	Faro, Yukon	75.51	348	P	P	04 44 49.1	-1.8

BAW	Bear Paw Mtn.	75.53	356	P	P	04 44 48.9	-2.0
J20K	Novinta River	75.58	358	P	P	04 44 49.7	-1.5
KOTAN	Kotanelele Air	75.64	343	P	P	04 44 49.9	-1.7
M31M	Drury Creek, Y	75.70	348	P	P	04 44 51.3	-0.6
MCK	McKinley	75.78	355	P	P	04 44 50.7	-1.7
J19K	Poorman	75.80	358	Iamb	Iamb	04 45 03.5	
J19K	Poorman	75.80	358	P	P	04 44 50.9	-1.5
CHUM	Lake Minchum	75.81	357	P	P	04 44 51.7	-0.8
BEAVL	Fort Liard	75.82	343	P	P	04 44 52.2	-0.4
BCAR	Beaver Creek A	75.83	352	P	P	04 44 53.8	+1.1
L27K	Beaver Creek,	75.84	352	P	P	04 44 51.9	-0.9
I17K	Unalakleet	75.94	1	P	P	04 44 52.2	-1.0
L26K	Log Cabin Wild	76.03	353	P	P	04 44 53.2	-0.6
M29M	Somme Creek	76.05	350	Iamb	Iamb	04 45 04.5	
M29M	Somme Creek	76.05	350	P	P	04 44 52.2	-1.8
TRF	Thorofare Moun	76.14	356	P	P	04 44 52.8	-1.8
CAST	Castle Rocks	76.26	357	P	P	04 44 55.6	+0.5
CAST	Castle Rocks	76.26	357	P	P	04 44 52.9	-2.2
PAX	Paxson	76.28	354	P	P	04 44 53.7	-1.6
DHY	Denali Highway	76.33	355	Iamb	Iamb	04 45 05.5	
DHY	Denali Highway	76.33	355	P	P	04 44 54.0	-1.7
J18K	Innok River	76.35	359	P	P	04 44 54.0	-1.6
BVCY	Beaver Creek	76.37	351	P	P	04 44 54.2	-1.5
K20K	Telida	76.40	358	Iamb	Iamb	04 45 06.0	
K20K	Telida	76.40	358	P	P	04 44 54.0	-1.8
J17K	VABM Dome	76.44	360	Iamb	Iamb	04 45 06.5	
J17K	VABM Dome	76.44	360	P	P	04 44 54.2	-1.8
M27K	Edge Creek, AK	76.53	352	P	P	04 44 55.4	-1.5
J16K	Anvik River	76.54	1	Iamb	Iamb	04 45 08.2	
J16K	Anvik River	76.54	1	P	P	04 44 55.9	-0.8
N31M	Braeburn, Yuko	76.59	349	P	P	04 44 55.8	-1.2
M26K	Nabesna, AK	76.61	352	P	P	04 44 55.8	-1.3
WAT1	Susitna Watana	76.65	355	P	P	04 44 55.7	-1.7
LIRD	Liard River Hi	76.75	343	P	P	04 44 56.8	-1.1
PPLA	Purkeypile	76.79	357	Iamb	Iamb	04 45 53.5	
PPLA	Purkeypile	76.79	357	P	P	04 44 56.8	-1.4
N30M	Aishikik Lake	76.81	349	P	P	04 44 56.8	-1.5
WAT6	Susitna Watana	76.84	355	P	P	04 44 57.6	-1.0
TTA	Tatalina	76.87	359	P	P	04 44 57.6	-1.0
YUK3	Moose Creek	76.94	351	P	P	04 44 57.5	-1.7
TOAD	Toad River Com	77.06	343	P	P	04 44 58.7	-1.0
K17K	Ittitard	77.12	360	P	P	04 44 58.7	-1.2
YUK4	Talbot Arm	77.13	350	P	P	04 44 58.5	-1.8
I37A	Lentind, Waseca	77.16	318	Iamb	Iamb	04 45 05.8	
WCI	Wyandotte Cve	77.18	309	P	P	04 45 01.7	+1.0
WCI	Wyandotte Cve	77.18	309	Iamb	Iamb	04 45 05.6	
WCI	Wyandotte Cve	77.18	309	P	pmax	04 45 01.7	+1.0
CUT	Chulitna	77.18	356	P	P	04 44 59.4	-0.9
M24K	Tolsona, Glenn	77.19	354	P	P	04 44 59.1	-1.3
WHY	Whitehorse	77.24	348	P	P	04 44 59.2	-1.5
L20K	Farewell, AK	77.27	357	P	P	04 44 59.6	-1.3
O30N	Mendenhall	77.32	349	P	P	04 44 59.9	-1.3
P33M	Teslin, Yukon	77.32	347	P	P	04 44 50.4	-0.8
YUK8	Steele Glacier	77.33	351	P	P	04 45 00.4	-2.1
HYT	Haines Junctio	77.47	349	P	P	04 45 00.6	-1.6
YUK6	Outpost Mounta	77.48	350	P	P	04 45 00.8	-1.5
K15K	Wolf Creek Mou	77.53	1	P	P	04 45 00.8	-1.3
N25K	Chitina, Valde	77.55	353	P	P	04 45 01.4	-1.0
SCM	Sheep Creek Mo	77.55	354	P	P	04 45 01.2	-1.2
L19K	White Mountain	77.60	358	Iamb	Iamb	04 45 12.9	
L19K	White Mountain	77.60	358	P	P	04 45 00.8	-1.9
L18K	Granite Mounta	77.60	359	P	P	04 45 01.1	-1.5
MCARA	McCarthy VSAT	77.61	352	P	P	04 45 01.1	-1.6
M23K	Glacier View	77.62	354	P	P	04 45 00.9	-1.9
SML	Sawmill	77.65	355	P	P	04 45 01.4	-1.6
KSAR	Wonju Array Be	77.66	51	P	P	04 45 02.5	-0.8
KSAR	Wonju Array Be	77.66	51	P	P	04 45 02.5	-0.8
KSRS	Korea Array	77.67	51	P	P	04 45 03.0	-0.4
KSRS	Korea Array	77.67	51	eP	pmax	04 45 03.0	-0.4
SKT	Skwentna	77.67	356	P	Iamb	04 45 02.1	-1.0
SKT	Skwentna	77.67	356	P	P	04 45 13.2	
SKT	Skwentna	77.67	356	P	P	04 45 01.6	-1.5
L17K	Donlin	77.70	360	P	P	04 45 01.6	-1.6
R33M	Jennings River	77.75	346	Iamb	Iamb	04 45 06.5	
R33M	Jennings River	77.75	346	P	P	04 45 01.9	-1.8
KLU	Klutina	77.78	354	P	P	04 45 02.3	-1.5
K13K	Kusilvak Mount	77.81	3	P	P	04 45 02.6	-1.2
CTG	Chitna Glacier	77.83	351	P	P	04 45 02.9	-1.2
M20K	Styx River	77.84	357	P	P	04 45 02.7	-1.4
M19K	Big River Lodg	77.86	358	P	P	04 45 03.3	-0.8
O28M	Mount Upton	77.88	351	P	P	04 45 03.4	-1.2
PMR	Palmer	77.92	355	P	P	04 45 03.4	-1.0
KNK	Knik Glacier	78.05	355	P	P	04 45 04.2	-1.0
P32M	Atlin	78.06	347	P	P	04 45 04.0	-1.3
P30M	Million Dollar	78.07	349	P	P	04 45 04.3	-1.0

GRNC	Granite Creek	78.11	351	Iamb	Iamb	04 45 16.3	
O29M	Mount Kennedy	78.12	350	P	P	04 45 04.9	-0.9
L16K	Swatow River	78.13	0	P	P	04 45 05.4	-0.1
L15K	Ungalak Mounta	78.14	1</				





1d 4h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KHC, DAVOX, DAVA, etc.

NAO 01 04:51:42.3, 39.43N-23.73E, h10km, mb4.5
BEO 01 04:51:56.9, 40.35N-20.92E, h2km, 2m, ML4.3/12
IDC 01 04:51:57.1, 40.53N-20.75E, h0km, mb4.1/24

TIR 01 04:51:57.5, 40.48N-20.81E, h13km, 1km, M4.7/9
GCMT 01 04:51:57.0, 40.45N-20.74E, 0.03, h12km,
MW4.7/100, Moment Tensor Solution. s18, c20;
s100, c140; Duration: 0 Moment tensor: Scale 10^16Nm;

MED\_RC 01 04:51:58.0, 40.45N-20.83E, h11km, MW4.7/48,
Moment Tensor Solution. Mantle waves: s48, c72;
Duration: 1s0 Moment tensor: Scale 10^16Nm;

MOS 01 04:51:58.1, 40.51N-20.73E, h17km, mb4.3/15 Error
ellipse: s-maj=4.0km s-min=2.8km az=90.2
THE 01 04:51:58.8, 41.12N-2.21E, h0km, 2km, M4.2/43,
MLh4.2/43

NEIC 01 04:51:59.2, 40.47N-20.71E, 0.07, h10km, 1km,
mb4.8/115, MW4.7/39, Error ellipse: s-maj=8.6km
s-min=7.7km az=102.0

NEIC 01 04:51:59.5, 40.37N-20.71E, h14km, Moment Tensor
Solution. Duration: 1s1 Moment tensor: Scale 10^16Nm;
M=1.19; Mw0.31; Mw0.88; Mw0.51; Mw0.53; Mw0.19;

PRU 01 04:51:59.5, 40.31N-20.76E, h10km, M4.4
SKO 01 04:51:59.8, 40.47N-20.87E, h8km, ML4.3
NEIC 01 04:51:59.5, 40.47N-20.71E, h14km
AFAD 01 04:52:03.2, 39.33N-21.45E, h4km, 5km, MW4.3

SOF 01 04:52:06.8, 40.87N-0.07:21.55E, 0.06, h10km, 8km,
MD3.9/7
ISC 01 04:51:58.3, 40.48N-0.01:20.80E, 0.02, h7km, 5km,
n632, s153/690, mb4.7/93, MS3.8/21, 44C-31D,

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KBN, KBC, KBC, etc.

2019 JUN

Main table with columns: SRN, Sarande, 0.86 226, Pg, Pg, 04 52 14.2 -0.6, etc. Includes stations like Sarande, Vlora, Kastanea, etc.

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Table with columns: RTZL, Ratzakli, Kefa, 2.40 181, P, Pn, 04 52 38.9 +0.8, etc. Includes stations like Ratzakli, Kefa, YRMI, etc.



1d 4h

Table with columns for station name, frequency, mode, and signal strength. Includes stations like KBZ Khabaz, OBN Obninsk, OBN Obninsk, GNI Garni, etc.

2019 JUN

Table with columns for station name, frequency, mode, and signal strength. Includes stations like SPITS, DAG, KURBIB, KURK, ICESG, SUMG, NOR, etc.

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Table with columns for station name, frequency, mode, and signal strength. Includes stations like RLMT Red Lodge, CBKS Cedar Bluff, MJAR Matsushiro Arr, etc.

SNET 01 04:55:39.0-7.13:05N:89.44W, h44km, 13km, M/L3.4
CATAC 01 04:55:39.0-0.6:13.0N:89.44W, h26km, 3km, M3.3/19,
M/LV3.3/19, Error ellipse: s-maj=6.9km s-min=3.9km
bz=28.1, confirmed
GCG 01 04:55:41.1-0.6:13.12N:89.54W, h35km, 3km, M/D3.8,
M/L3.0

Table with columns for Code, Station Name, Frequency, Mode, and Signal Strength. Includes stations like LALI, PANCS, JAYA, etc.

Table with columns: NUBE, Las Nubes, UNIC, etc. Columns include station name, time, and other parameters.

Table with columns: KKB, VLS, etc. Columns include station name, time, and other parameters.

Table with columns: LSK, LSK, LSK, etc. Columns include station name, time, and other parameters.

CGC 01 05:00:06.5-0.9,15.56N,91.02W,h50km,239km,MD3.6,

Table with columns: Code, Station Name, Time, Res. Includes stations like STGB, PETF, etc.

TIR 01 05:08:54.1, 40.44N,20.76E,h2km,2km,ML2.9/7

SKO 01 05:08:56.2, 40.45N,20.95E,h6km,ML2.5

ISC 01 05:08:54.8-1.1, 40.45N,01.20.79E,0.02,h3km,10km,

n42, c1509/70, Greece-Albania border region

Main table for Greece-Albania border region with columns: Code, Station Name, Time, Res. Includes stations like KBN, KZN, JAN, etc.

ISC 01 05:09:07.1-0.6, 21.63N,0.07,143.1E,0.1,h311km,n54,

c1502/57,mb4.0/31, Mariana Islands region

Main table for Mariana Islands region with columns: Code, Station Name, Time, Res. Includes stations like WRA, FITZ, ASAR, etc.

ISC 01 06:00:59.0-0.7, 12.1N,4.87W,h19km,7km,M3.4/15,

MLV3.4/15, Error ellipse: s-maj=10.5km s-min=4.6km

az=39.3, confirmed

UCR 01 06:01:00.0-0.9, 10.78N,87.97W,h35km,999km,MW3.7

ISC 01 06:05:57.8-2.1, 11.64N,0.05,87.45W,0.07,h3km,13km,

n38, c1522/47,9C-7D, Near coast of Nicaragua

Main table for Nicaragua region with columns: Code, Station Name, Time, Res. Includes stations like KNT, KNT, KNT, etc.

BEO 01 06:09:09.4-0.6, 40.35N,20.95E,h0km,ML2.5/11

SKO 01 06:09:11.3, 40.45N,20.86E,h2km,ML2.7

ATH 01 06:09:11.4, 40.50N,20.95E,h12km,3km,ML2.7/14,

Manual Solution by N.Liadopoulou First location:

2019/06/01 06:10:13, This location: 2019/06/03 10:01:03

ML Amplitudes are expressed in micrometers, All

distances are expressed in degrees Latitude uncertainty: 3

km, Longitude uncertainty: 3 km

THE 01 06:09:11.5, 40.1N,5.2E,h1km,5km,ML2.6/15,

ML2.6/15

ISC 01 06:09:10.9-1.1, 40.48N,0.02,20.85E,0.02,h4km,10km,

n65, c1500/88, Greece-Albania border region

Main table for Greece-Albania border region with columns: Code, Station Name, Time, Res. Includes stations like NEST, NEST, NEST, etc.





comp=Z,0.5nm,0.6s,baz=297,slow=6.7,SNR=2.8  
**YAK Yakutsk** 63.00 30 LR LR 06 59 59.9  
 comp=Z,2.9nm,18.3s,baz=148,slow=57  
**TXAR Lajitas Array** 93.55 314 P P 06 34 05.8 -0.9  
 comp=Z,0.3nm,0.6s,baz=64,slow=5.7,SNR=3.7  
 comp=Z,0.3nm,0.6s

CATAC 01 06:21:10.8:0.7, 13°N:4°x8°9W, h25km,3km, M2.9/12, MLV2.9/12, Error ellipse: s-maj=8.2km s-min=-5.3km  
 baz=23.6, confirmed

GCG 01 06:21:11.9:0.5, 13°09'N:89°49'W, h50km, 10km, MD3.5  
 SNET 01 06:21:12.6:1.0, 13°17'N:89°37'W, h57km, 16km, ML2.9  
 ISC 01 06:21:11.2:2.3, 13°01'N:89°44'W, 0.07, h43km, n46, c050/50, El Salvador

Code	Station Name	Δ°	AZ°	Phase	ID	ISC	Time	Res
							h m s	ISC
LALI	Alcalda de L	0.49	14	Op	ISC	Pn	06 21 22.2	+0.2
LALI	Alcalda de L	0.49	14	P	Pn	Pn	06 21 29.8	+0.2
JAYA	Jayaque - finc	0.64	360	eP	Pn	Pn	06 21 24.2	0.0
JAYA	JAYA				IAML		06 21 34.3	
comp=Z,316nm,0.2s								
JAYA	Jayaque - finc	0.64	360	iP	Pn	Pn	06 21 24.2	0.0
JAYA	Jayaque - finc	0.64	360	S	Pn	Pn	06 21 24.0	-0.2
PANCS	Alcalda de	0.65	23	S	Pn	Pn	06 21 32.9	-0.6
ITCA	Escuela Especi	0.68	14	S	Pn	Pn	06 21 33.8	-0.4
ITCA	Escuela Especi	0.68	14	P	Pn	Pn	06 21 24.3	-0.3
LOMA	Loma Larga	0.69	23	eP	Pn	Pn	06 21 24.7	0.0
LOMA	Loma Larga	0.69	23	eS	Pn	Pn	06 21 34.9	+0.5
LOMA	Loma Larga	0.69	23	S	Pn	Pn	06 21 35.1	+0.7
LOMA	Loma Larga	0.69	23	P	Pn	Pn	06 21 24.6	-0.1
PMON	Piamonte	0.71	10	eP	Pn	Pn	06 21 25.8	+0.7
PMON	Piamonte	0.71	10	P	Pn	Pn	06 21 24.9	-0.1
PMON	Piamonte	0.71	10	S	Pn	Pn	06 21 42.9	+0.7
UEES	Universidad Ev	0.73	16	S	Pn	Pn	06 21 35.7	+0.3
UEES	Universidad Ev	0.73	16	P	Pn	Pn	06 21 23.6	-1.7
COEG	Centro de Oper	0.82	42	eP	Pn	Pn	06 21 26.1	-0.4
COEG	Centro de Oper	0.82	42	eS	Pn	Pn	06 21 39.6	-0.6
COEG	Centro de Oper	0.82	42	P	Pn	Pn	06 21 25.1	-0.4
COEG	Centro de Oper	0.82	42	S	Pn	Pn	06 21 37.1	-0.4
TECO	Alcaldia de Te	0.83	51	S	Pn	Pn	06 21 26.2	-0.4
PAVA	Las Pavas	0.86	35	eP	Pn	Pn	06 21 39.0	+0.5
PAVA	Las Pavas	0.86	35	S	Pn	Pn	06 21 26.9	-0.1
UESV	Universidad de	0.89	46	S	Pn	Pn	06 21 38.6	-0.6
UESV	Universidad de	0.89	46	P	Pn	Pn	06 21 25.7	-0.7
ALJI	Alcalda de J	0.91	69	S	Pn	Pn	06 21 39.2	-0.3
ALJI	Alcalda de J	0.91	69	P	Pn	Pn	06 21 27.2	-0.4
NUBE	Las Nubes	0.95	340	eP	Pn	Pn	06 21 28.4	+0.1
NUBE	Las Nubes	0.95	340	iP	Pn	Pn	06 21 39.6	-1.1
NUBE	Las Nubes	0.95	340	eS	Pn	Pn	06 21 28.2	0.0
NUBE	Las Nubes	0.95	340	S	Pn	Pn	06 21 41.9	+0.3
NUBE	Las Nubes	0.95	340	P	Pn	Pn	06 21 40.1	-0.6
NUBE	Las Nubes	0.95	340	P	Pn	Pn	06 21 28.3	0.0
SCLA	Alcaldia de Sa	0.98	45	S	Pn	Pn	06 21 41.7	+0.3
SCLA	Alcaldia de Sa	0.98	45	P	Pn	Pn	06 21 29.8	+0.2
POSS	Pres 15 de Se	1.06	54	P	Pn	Pn	06 21 29.3	-0.3
POSS	Pres 15 de Se	1.06	54	S	Pn	Pn	06 21 42.8	+0.3
PACA	Pacayal	1.18	67	eP	Pn	Pn	06 21 32.0	+0.6
PACA	Pacayal	1.18	67	eS	IAML		06 21 48.8	
comp=Z,2um,0.1s								
PACA	Pacayal	1.18	67	S	Pn	Pn	06 21 47.2	+0.8
PACA	Pacayal	1.18	67	P	Pn	Pn	06 21 31.9	+0.4
MTOS	Montecristo	1.39	3	iP	Pn	Pn	06 21 34.7	+0.3
MTOS	Montecristo	1.39	3	P	Pn	Pn	06 21 34.6	+0.3
MTOS	Montecristo	1.39	3	S	Pn	Pn	06 21 34.5	+0.2
MTOS	Montecristo	1.39	3	S	Pn	Pn	06 21 52.3	+0.7
LCND	La Caada	1.54	79	eP	IAML		06 21 37.0	
LCND	La Caada	1.54	79	P	Pn	Pn	06 21 36.0	0.0
CNCH	Conchagua	1.59	80	S	Pn	Pn	06 21 36.8	-0.3
CNCH	Conchagua	1.59	80	S	Pn	Pn	06 21 56.8	+0.3

TIR 01 06:24:53.0, 40°48'N:20°76'E, h10km, 1km, M3,0/8  
 ATH 01 06:24:53.7, 40°45'N:20°82'E, h10km, 1km, ML2.6/12,  
 Manual Solution by N.Liadopoulou First location:  
 2019/06/01 06:26:11, This location: 2020/06/11 09:31:41  
 ML Amplitudes are expressed in micrometers, All  
 distances are expressed in degrees Latitude uncertainty: 1  
 km; Longitude uncertainty: 1 km  
 SKO 01 06:24:55.0, 40°48'N:20°88'E, h3km, ML2.7  
 THE 01 06:24:55.2, 40°40'N:2°12'E, h7km, 2km, M2,5/11,  
 MLh2.5/11  
 ISC 01 06:24:53.9:1.0, 40°47'N:0°02:20°81'E:0.02, h4km, gkm,  
 n54, c088/76, 1C, Greece-Albania border region

Code	Station Name	Δ°	AZ°	Phase	ID	ISC	Time	Res
							h m s	ISC
KBN	Korca	0.15	353	Pg	Pg	Pg	06 24 56.1	-0.8
KBN	Korca			Sg	Sg	Sg	06 24 58.4	-0.6
KBN	Korca			eP	AML		06 24 58.9	
12nm,0.2s								
NEST	Nestorio	0.19	107	Pg	Pg	Pg	06 24 58.1	+0.5
NEST	Nestorio			Sg	AML		06 25 01.7	+1.6
NEST	Nestorio			P	AML		06 25 02.4	
16nm,0.2s								
NEST	Nestorio			AML	AML		06 25 04.8	
12nm,0.3s								
NEST	Nestorio	0.19	107	P	Pg	Pg	06 24 58.0	+0.5
NEST	Nestorio			Sg	Sg	Sg	06 25 00.3	+0.2
NEST	Nestorio			S	Sg	Sg	06 24 57.3	+0.3
NEST	Nestorio			S	Sg	Sg	06 25 01.3	+1.2
LSK	Leskovik	0.36	207	Pg	Pg	Pg	06 24 60.0	-0.8
LSK	Leskovik			Sg	Sg	Sg	06 25 05.9	+0.4
LSK	Leskovik			AML	AML		06 25 09.3	
11nm,0.4s								
PENT	Pentalofos	0.37	138	P	Pg	Pg	06 25 01.2	+0.1
PENT	Pentalofos			Sg	Sg	Sg	06 25 04.7	-1.2
PENT	Pentalofos			S	Sg	Sg	06 25 01.0	0.0
PENT	Pentalofos			S	Sg	Sg	06 25 06.0	+0.1
OHR	Ohrid	0.64	359	iP	Sg	Sg	06 25 06.0	-0.2
OHR	Ohrid			eP	Sg	Sg	06 25 15.4	-1.0
OHR	Ohrid			eLg	Lg	Lg	06 25 16.2	
comp=E,469nm,0.6s								
OHR	Ohrid			eLg	Lg	Lg	06 25 16.3	
comp=N,226nm,0.8s								
KPRO	Kipourio	0.67	141	P	Pg	Pg	06 25 06.4	-0.3
KPRO	Kipourio			P	Pg	Pg	06 25 06.4	-0.3
KZN	Kozani	0.75	102	P	Pg	Pg	06 25 08.6	+0.3
KZN	Kozani			P	Pg	Pg	06 25 08.5	+0.3
JAN	Janina	0.81	178	P	Pg	Pg	06 25 08.4	-1.1
JAN	Janina			P	Pg	Pg	06 25 15.9	-1.2
SRN	Sarande	0.86	227	Pg	Sg	Sg	06 25 10.0	-0.3
SRN	Sarande			Sg	Sg	Sg	06 25 22.6	+1.2
SRN	Sarande			AML	AML		06 25 32.3	
comp=N,0.9nm,0.5s								
NASA	Naoussa	0.97	80	P	Pg	Pg	06 25 11.9	-0.5
KTI	Kastanea	1.00	94	P	Pg	Pg	06 25 12.6	-0.4
IGT	Igoumenitsa	1.01	202	Pn	Pg	Pg	06 25 12.9	-0.2
IGT	Igoumenitsa			S	S	S	06 25 28.2	+2.0
IGT	Igoumenitsa			AML	AML		06 25 38.5	
comp=N,0.6nm,0.4s								
IGT	Igoumenitsa	1.01	202	P	Pg	Pg	06 25 12.4	-0.7
IGT	Igoumenitsa			iP	Pg	Pg	06 25 13.0	-0.2
IGT	Igoumenitsa			Sg	Sg	Sg	06 25 30.1	+0.6
IGT	Igoumenitsa			iSg	Sg	Sg	06 25 12.9	-0.2
KEK	Kerkira	1.08	226	P	Pb	Pb	06 25 15.6	+0.4
KEK	Kerkira			P	Pb	Pb	06 25 07.7	-0.5
TIR	Tirane	1.13	321	Pn	Pb	Pb	06 25 14.1	-1.9
TIR	Tirane			iP	Pb	Pb	06 25 14.0	-2.1
TIR	Tirane			Sg	Pb	Pb	06 25 33.8	+1.2
TETR	Tetrakomo, Epi	1.18	162	P	Pg	Pg	06 25 16.6	-0.3
PHP	Peshkopia	1.24	347	Pg	Sb	Sb	06 25 16.9	-1.2
PHP	Peshkopia			Sg	Sb	Sb	06 25 33.7	-0.7
PHP	Peshkopia			AML	AML		06 25 37.1	
comp=N,0.4nm,0.5s								
THR	Klokotos Trika	1.29	134	P	Pn	Pn	06 25 17.6	-1.2
THR	Klokotos Trika			P	Pn	Pn	06 25 17.8	-1.5
TYRN	Tyrnavos	1.32	124	P	Pn	Pn	06 25 18.1	-1.1
TYRN	Tyrnavos			P	Pn	Pn	06 25 23.1	+0.5
SKO	Skopje	1.57	17	eP	Pg	Pg	06 25 45.3	+0.9
VAY	Valandovo	1.58	57	iSg	Sg	Sg	06 25 22.4	-0.3
VAY	Valandovo			Sg	Sg	Sg	06 25 16.0	+1.4
VAY	Valandovo			eLg	Lg	Lg	06 25 50.1	
VAY	Valandovo			eLg	Lg	Lg	06 25 50.1	

comp=N,104nm,0.9s  
**THE Thessaloniki** 1.65 84 ePg Pn 06 25 23.0 -0.6  
**THE Thessaloniki** 1.65 84 iSg Pn 06 25 45.2 -0.7  
**LKD2 Lefkada island** 1.68 184 Pn 06 25 27.8 +1.7  
**PUK Puka** 1.72 336 Pn 06 25 26.7 +0.6  
**PUK Puka** 1.72 336 Sn 06 25 58.1 +1.2  
**PUK Puka** 1.72 336 AML 06 25 58.1

comp=N,0.5nm,0.5s  
**KNT Kendrick** 1.73 66 P Pn 06 25 24.3 -0.4  
**KNT Kendrick** 1.73 66 iPg Pn 06 25 24.3 -0.4  
**KNT Kendrick** 1.73 66 P Pn 06 25 48.7 -0.7  
**KNT Kendrick** 1.73 66 P Pn 06 25 24.0 -0.7  
**HORT Hortiatis** 1.75 65 P Pn 06 25 24.3 -0.8  
**HORT Hortiatis** 1.75 65 P Pn 06 25 24.1 -0.9  
**MAKR Makrakomi, Fth** 1.78 145 P Pn 06 25 24.9 -0.6  
**SCTE Santa Cesarea** 1.84 258 P Pn 06 25 26.7 +0.3  
**EVGI Lefkada island** 1.85 184 P Pn 06 25 26.1 -0.3  
**AGG Agios Georgios** 1.86 141 P Pn 06 25 25.6 -0.9  
**ULH Ulicinj** 1.90 322 iPg Pn 06 25 27.9 +0.8  
**SOH Sokhos** 1.97 79 P Pn 06 25 27.9 -0.1  
**BCI Bajram Curri** 1.98 344 Pn 06 25 31.5 +1.1  
**BCI Bajram Curri** 1.98 344 Sn 06 25 56.8 +1.4  
**BCI Bajram Curri** 1.98 344 AML 06 25 59.5

comp=N,0.6nm,0.7s  
**PLG Polygyros** 2.01 92 P Pn 06 25 27.6 -1.0  
**SRS Serrai** 2.21 72 iPn Pn 06 25 31.3 -0.1  
**KKB Kruupnik** 2.22 51 Pn Pn 06 25 31.3 -0.2  
**BARS Barje** 2.46 17 iPn Pn 06 25 34.3 -0.5  
**BARS Barje** 2.46 17 Sn Pn 06 25 05.0 -0.4  
**MMB Musomishta** 2.47 63 iPn Pn 06 25 35.8 +0.8  
**MMB Musomishta** 2.47 63 Sn Pn 06 25 35.8 +0.1  
**BEY Berane** 2.50 344 iPn Pn 06 25 38.4 -0.9

ICC 01 06:30:34.0:1.2, 30°75'N:131°93'E, h0km, mb3.7/7,  
 mbmp3.7/12, ML3.3/5, MS2.4/1, Error ellipse:  
 s-maj=30.5km s-min=20.2km az=84.0

JMA 01 06:30:37.4:0.2, 30°80'N:143°12'E, 0.9, h55km, 2km,  
 MV3.4/39, E OFF TANEGASHIMA ISLAND

ISC 01 06:30:36.8:1.9, 30°73'N:0°05:132°05'E:0.08, h22km, 13km,  
 n26, c090/36, mb3.6/7, Southeast of Shikoku

Code	Station Name	Δ°	AZ°	Phase	ID	ISC	Time	Res
							h m s	ISC
JTN	Tanegashima 3	0.92	266	iP	Pn	Pn	06 30 54.5	+0.4
JTN	Tanegashima 3			eS	Pn	Pn	06 31 07.3	+0.3
JNAR	Kushima-Naru	1.04	320	P	Pb	Pb	06 30 56.0	-0.1
JNAR	Kushima-Naru			P	Pb	Pb	06 31 09.5	+0.2
JMNT	Minamitane	1.04	252	P	Pb	Pb	06 30 56.5	+0.3
JMNT	Minamitane			eS	Pn	Pn	06 31 10.5	+1.2
JTSR	Tashiro 2	1.06	295	P	Sb	Sb	06 30 56.0	-0.3
JNKG	Nichinankitago	1.10	329	eP	Sb	Sb	06 30 56.6	-0.2
JNKG	Nichinankitago			eS	Sb	Sb	06 31 10.9	0.0
JYAK	Yakushimahirau	1.41	250	eS	Pn	Pn	06 31 19.4	-0.7
JYAK	Yakushimahirau			eS	Pn	Pn	06 31 19.4	-0.7
JTZ	Takazaki	1.43	325	P	Sb	Sb	06 31	

Table with columns: Code, Station Name, Az, Alt, Phase, ID, Time, Res. Includes stations like CASO Castillo, VINA Juan Vinas, ARE1 Arenal 1, etc.

s144,c251; Duration: 0 Moment tensor: Scale 10^16Nm; Mm=4.58±.11; Mw=0.63±.08; Mw=3.95±.08; Mo=0.14±.22; M=1.58±.06; Mw=0.33±.18; Best double couple: Mw=4.59500±10^16 NP1=25.00000°, 643.00000°, -85.00000°. NP2=199.00000°, 647.00000°, -94.00000°. Principal axes: T 4.5890, Plg2.0000°. Azm292.0000°. Mo 0.1410, Plg3.0000°, Azm202.0000°; P -4.6010, Plg87.0000°, Azm49.0000°; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

THE 01:07:00:28.0, 41°N, 1°21'E, h10km, m0km, ML4.7/69, MED\_RC 01:07:00:28.0, 41°N, 20°77'E, h10km, Mw0.5/7, Moment Tensor Solution. Body waves: s2,c3,Mw0.5/7, Moment tensor: Scale 10^16Nm; Mw=5.57±.08; Duration: 1s1 Moment tensor: Scale 10^16Nm; Mw=3.79±.07; Mw=0.51±.07; Mw=3.27±.05; Mo=0.09±.42; Mw=1.01±.06; Mw=1.03±.28; Best double couple: Mw=3.84000±10^16 NP1=201.00000°, 837.00000°, -85.00000°. NP2=195.00000°, 853.00000°, -94.00000°. Principal axes: T 3.7400, Plg6.0000°, Azm108.0000°, 0.2000, Plg3.0000°, Azm17.0000°; P -3.9400, Plg82.0000°, Azm265.0000°; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=40s.

NEIC 01:07:00:28.5, 1.6, 40:57N:0:05:20.74E, h10km, 1km, mb5.0/94, Mw=0.63 Error ellipse: s-maj=8.7km s-min=7.0km az=219.0 NEIC 01:07:00:28.7, 40:39N:20:75E, h12km, Moment Tensor Solution. Duration: 1s7 Moment tensor: Scale 10^16Nm; Mw=3.86; Mw=0.25; Mw=3.61; Mw=1.69; Mw=1.22; Mw=1.03; Fault plane solution: Mw4.40000±10^16 NP1: 182.47000°, 836.65000°, -116.38000°. NP2: 34.20000°, 857.67000°, -71.70000°. Principal axes: T 4.2948, Plg11.0000°, Azm111.0000°, N 0.2114, Plg15.0000°, Azm204.0000°; P -4.5062, Plg71.0000°, Azm347.0000°.

SKO 01:07:00:29.0, 40:50N:20:81E, h15km, ML4.9 BGS 01:07:00:30.1, 5, 40:73N:20:67E, h10km, mb4.7 GII 01:07:00:31.0, 0.0, 40:52N:20:86E, h10km, confirmed AFAD 01:07:00:34.0, 40:75N:21:52E, h15km, MW4.7 ISC 01:07:00:27.5±0.5, 40:51N:0:01:20.79E, 0.01, h10km, 3km, n210, c1992/1300, mb4.9/119, MS4.3/97, 73C-61D, Greece-Albania border region

Table with columns: Code, Station Name, Az, Alt, Phase, ID, Time, Res. Includes stations like Code Station Name, Az, Alt, Phase, ID, Time, Res.

Table with columns: Code, Station Name, Az, Alt, Phase, ID, Time, Res. Includes stations like THE Thessaloniki, THE Thessaloniki, THE Thessaloniki, etc.

Code Station Name Az Alt Phase ID Time Res

Code Station Name Az Alt Phase ID Time Res

NAO 01:07:00:16.9, 39°33'N, 19°79'E, h10km, mb4.6 BUJ 01:07:00:22.2, 40:42N:20:40E, h10km, mB5.0/29, mb5.0/56, Ms4.8/42, Ms7.4/44 BEO 01:07:00:25.7±0.6, 40:37N:21:08E, h1km, 3km, ML4.8/13 TIR 01:07:00:26.8, 40:50N:20:77E, h7km, 1km, Md3.1/3, M15.0/13 IDC 01:07:00:26.1±0.4, 40:49N:20:89E, h0km, mb4.6/30, mbtmp4.6/46, ML4.2/14, MS4.2/86, Error ellipse: s-maj=7.9km s-min=7.5km az=46.0 MOS 01:07:00:26.4, 41:0:52N:20:76E, h13km, mb5.0/39, MS4.3/18, Error ellipse: s-maj=3.3km s-min=2.3km az=82.2 ATH 01:07:00:27.3, 40:52N:20:79E, h2km, Mw4.9, Moment Tensor Solution. s12 Moment tensor: Mw=2.58; Mw=0.45; Mw=2.13; Mw=0.28; Mw=1.33; Mw=1.13; Fault plane solution: NP1=36.00000°, 634.00000°, -79.00000°. NP2=202.00000°, 857.00000°, -98.00000°. PDG 01:07:00:27.3±1.2, 40:53N:20:72E, h10km, 2km, MD5.0/11, ML4.9/12 Error ellipse: s-maj=0.8km s-min=1.3km az=0.0 GCMT 01:07:00:27.5±0.1, 40:45N:0:01:20.74E:0.01, h12km, Mw5.0/144, Moment Tensor Solution. s86,c128;

Table with columns: Code, Station Name, Az, Alt, Phase, ID, Time, Res. Includes stations like Korca, Nestorio, Nestorio, Leskovik, etc.

Table with columns: Code, Station Name, Az, Alt, Phase, ID, Time, Res. Includes stations like THE Thessaloniki, THE Thessaloniki, THE Thessaloniki, etc.



VLX	Vlachokerasia	3.37 158	P	Pn	07 01 23.6 +3.3
TIP	Timpagrande	3.37 248	P	Pn	07 01 19.8 -0.5
TIP	Timpagrande	3.37 248	JP	Pn	07 01 20.7 +0.4
GRUS	Grus	3.38 359	ePn	Pn	07 01 21.6 +1.3
GRUS	Grus	3.40 137	eSn	Pn	07 02 02.7 +2.3
AH	Athens Observa	3.40 137	P	Pn	07 01 21.4 +0.6
ATH	Athens Observa	3.40 137	P	Pn	07 01 21.9 +1.3
PLD	Plovidiv	3.40 60	P	Pn	07 01 21.6 +1.0
PLD	Plovidiv	3.40 60	P	Pn	07 01 21.5 +1.0
PTL	Penteli	3.42 135	P	Pn	07 01 21.8 +0.9
ITM	Ithomi	3.44 165	P	Pn	07 01 23.3 +2.7
ITM	Ithomi	3.44 165	P	Pn	07 01 23.2 +2.7
DION	Dionisos Attik	3.44 134	P	Pn	07 01 22.1 +0.9
ATHU	Athens Univers	3.44 137	P	Pn	07 01 22.0 +0.8
ZAGS	Zajecar	3.47 18	ePn	Pn	07 01 22.2 +0.6
ZAGS	Zajecar	3.51 343	eSn	Pn	07 02 03.4 +0.7
BLS	Lazi#263i	3.51 343	eSn	Pn	07 01 24.7 +2.5
BLS	Lazi#263i	3.51 343	ePn	Pn	07 01 24.5 +2.3
VLY	Voula,Athens	3.52 138	P	Pn	07 01 19.6 -2.9
SMTH	Samothraki Isl	3.62 89	P	Pn	07 01 23.1 -0.4
KDZ	Kurdzhali	3.62 70	P	Pn	07 01 24.0 +0.4
KDZ	Kurdzhali	3.62 70	P	Pn	07 01 25.2 +1.6
KRND	Kranidi	3.62 149	P	Pn	07 01 25.0 +1.4
DIVS	Divibare	3.64 351	ePn	Pn	07 01 25.2 +1.3
DIVS	Divibare	3.64 351	eSn	Pn	07 02 09.6 +2.7
RDO	Rodhopi	3.66 78	P	Pn	07 01 24.2 +0.1
RDO	Rodhopi	3.66 78	P	Pn	07 01 24.2 +0.1
PYL	Pyllos	3.68 168	P	Pn	07 01 26.2 +1.3
BORS2	Bor- Borsko je	3.69 14	ePn	Pn	07 01 24.7 -0.7
BORS2	Bor- Borsko je	3.69 14	eSn	Pn	07 02 08.1 -0.1
TRUS	Trudelj	3.73 356	ePn	Pn	07 01 26.0 +1.0
KARY	Karystos	3.76 130	P	Pn	07 01 26.4 +0.9
SVC	Svilajnac	3.77 5	ePn	Pn	07 01 26.8 +1.2
MBV	Han Pijesak,BI	3.83 349	JPn	Pn	07 01 23.7 +0.3
CUIC	Castucco	3.84 264	P	Pn	07 01 26.9 +0.3
KUBS	Kucevo	3.96 9	ePn	Pn	07 01 27.3 -0.9
SGRT	San Giovanni R	4.01 290	P	Pn	07 01 28.8 -0.2
ALN	Alexandroupoli	4.01 83	Pn	Pn	07 01 29.3 +0.6
ALN	Alexandroupoli	4.01 83	P	Pn	07 01 29.3 +0.6
ALN	Alexandroupoli	4.01 83	P	Pn	07 01 27.7 -1.8
ALN	Alexandroupoli	4.01 83	P	Pn	07 01 29.6 +0.6
BOZC	Bozcaada	4.09 96	P	Pn	07 01 29.8 -0.2
PUNG	Pungina	4.09 22	JP	Pn	07 01 31.5 +1.4
CAVK	Edirne/Enez-Ca	4.10 86	P	Pn	07 01 32.6 +2.5
CAVK	Edirne/Enez-Ca	4.10 86	JP	Pn	07 01 30.8 +0.6
WEL	Velai	4.14 163	P	Pn	07 01 32.0 +1.7
ECEA	Canakkale, Ece	4.15 95	P	Pn	07 01 33.9 +3.1
TEKS	Tekeris	4.15 347	JPn	Pn	07 01 32.3 +1.4
TEKS	Tekeris	4.15 347	ePn	Pn	07 01 32.2 +1.4
AVAS	Avala Beograd	4.19 357	ePn	Pn	07 01 31.9 +0.4
KOCA	Canakkale, Ayy	4.23 103	P	Pn	07 01 31.7 +0.3
EZN	Ezine	4.30 97	P	Pn	07 01 33.7 +0.9
EZN	Ezine	4.30 97	JP	Pn	07 01 33.6 +0.7
EZN	Ezine	4.30 97	JP	Pn	07 01 33.6 +0.7
BEO	Beograd	4.31 357	P	Pn	07 01 35.5 +2.5
BEO	Beograd	4.31 357	ePn	Pn	07 01 35.2 -0.4
MDVR	Moldovita	4.33 9	JP	Pn	07 01 33.7 +0.3
SOI	Samo	4.40 238	P	Pn	07 01 34.3 -0.1
CEL	Celeste	4.41 241	P	Pn	07 01 34.2 -0.3
KESN	Edirne-Kesan	4.49 84	P	Pn	07 01 35.2 -0.8
GMB	Gambarie	4.50 240	P	Pn	07 01 35.6 -0.2
SRE	Strehaia	4.52 22	P	Pn	07 01 37.1 +1.1
SRE	Strehaia	4.52 22	P	Pn	07 01 37.1 +1.1
HERR	Herculeane	4.53 15	JP	Pn	07 01 36.9 +0.8
KTHA	Kythira Island	4.60 156	P	Pn	07 01 39.7 +2.5
VRSS	Vrsac	4.63 5	ePn	Pn	07 01 37.3 -0.2
DOB	Doboj	4.67 336	ePn	Pn	07 01 45.5 -3.9
AYVA	Ayvalik	4.69 103	P	Pn	07 01 39.0 +0.6
FRGS	Fruska Gora	4.70 352	JPn	Pn	07 01 39.5 +1.0
FRGS	Fruska Gora	4.70 352	ePn	Pn	07 01 39.3 +0.8
KARB	zmir-Karabur	4.72 111	P	Pn	07 01 39.9 +1.2
PAOL	Paolisi	4.75 278	P	Pn	07 01 39.6 +0.4
SZH	Strazhitsa	4.75 53	P	Pn	07 01 39.8 +0.7
SZH	Strazhitsa	4.75 53	P	Pn	07 01 39.4 +1.4
SART	Sarkidag	4.87 86	P	Pn	07 01 39.9 -0.9
BANR	Banloc	4.88 3	JP	Pn	07 01 43.2 +2.3
COPA	Copaceana	4.89 41	JP	Pn	07 01 42.2 +1.2
BUHA	Balikesir, Bur	4.93 100	P	Pn	07 01 41.5 -0.1
ZEVY	Izmir, Uria-Ze	4.97 115	P	Pn	07 01 43.7 +1.5
BLV	Banja Luka	5.00 111	JPn	Pn	07 01 44.1 +1.5
ANKY	Antikythira Is	5.04 156	P	Pn	07 01 46.1 +3.0
APE	Apeiranthos	5.05 131	P	Pn	07 01 44.3 +1.0
APE	Apeiranthos	5.05 131	P	Pn	07 01 41.2 -2.1
APE	Apeiranthos	5.05 131	JP	Pn	07 01 44.5 +1.2
APE	Apeiranthos	5.05 131	JP	Pn	07 01 44.0 +0.9
AG05A	Galkovaca	5.07 323	JPn	Pn	07 01 45.3 +1.7
HUMR	Humle	5.07 36	JP	Pn	07 01 44.8 +1.2
ZEDA	zmir-Bergama	5.09 106	P	Pn	07 01 45.6 +1.9
GZR	Gura Zlata	5.10 16	JP	Pn	07 01 44.8 +0.9
GZR	Gura Zlata	5.10 16	JP	Pn	07 01 44.8 +0.9
BZS	Buzias	5.14 6	JP	Pn	07 01 44.5 +0.1
BZS	Buzias	5.14 6	P	Pn	07 01 44.4 -0.1
ARIMN	Kirkilareli, Me	5.19 73	P	Pn	07 01 44.0 -1.2
BALY	Balya	5.29 96	P	Pn	07 01 45.3 -1.3
A051A	Mravokopa	5.33 329	JPn	Pn	07 01 48.3 +1.1
SURR	Surdut	5.37 10	JP	Pn	07 01 48.0 +0.9
PRLU	Prijedor	5.38 327	JPn	Pn	07 01 49.2 +2.0
INTR	Introdacqua	5.40 288	P	Pn	07 01 48.2 +0.1
VIZE	Kirkilareli, Vi	5.44 76	P	Pn	07 01 50.4 +1.8
STEP	BALIKESIR_Sava	5.45 100	P	Pn	07 01 49.8 +1.0
BAND	Balkesir-Ban	5.58 89	P	Pn	07 01 50.1 -0.5
BAND	Balkesir-Ban	5.58 89	JP	Pn	07 01 51.0 +1.0
DEV	Deva	5.59 15	P	Pn	07 01 53.2 +2.5
DEV	Deva	5.59 15	Pmax	Pmax	07 01 53.2 +2.5
ARR	Arges	5.62 29	JP	Pn	07 01 52.1 +1.0
AKHS	Aktisar	5.65 104	P	Pn	07 01 52.0 +0.7
MTUR	Matau	5.67 32	JP	Pn	07 01 53.6 +1.7
MTUR	Matau	5.67 32	P	Pn	07 01 53.5 +1.7
GCAM	G?zelaclm?	5.74 117	P	Pn	07 01 55.1 +2.4
CTYL	Valikoy Yolu	5.76 78	JP	Pn	07 01 53.9 +1.0
VAE	Valguarnera	5.81 241	Pn	Pn	07 01 55.1 +1.2
VAE	Valguarnera	5.81 241	Pn	Pn	07 03 00.2 -0.3
GIB	Gibilinna	5.82 247	P	Pn	07 01 56.4 +2.5
GIB	Gibilinna	5.82 247	Pmax	Pmax	07 01 56.4 +2.5
VOIR	L'Aquila	5.83 31	JP	Pn	07 01 55.4 +1.3
VOIR	L'Aquila	5.83 31	P	Pn	07 01 55.5 +1.4
AQU	L'Aquila	5.85 291	P	Pn	07 01 55.2 +0.9
CAMP	Campotosto	5.90 293	Pn	Pn	07 01 55.7 +0.7
MORH	Mrgy, Hungar	5.92 345	JP	Pn	07 01 56.6 +1.7
DURMS	Dursunbey	5.97 96	P	Pn	07 01 56.4 +0.5
GUMS	Gualdo di Mace	6.13 297	P	Pn	07 01 58.1 +0.4
DUMS	Gualdo di Mace	6.14 147	P	Pn	07 01 58.1 +0.4
IDI	Anoyia	6.14 147	Pn	Pn	07 01 58.5 +0.2
IDI	Anoyia	6.14 147	Pn	Pn	07 03 07.1 -1.4
NRCIA	Norcia	6.20 295	P	Pn	07 01 59.6 +0.5
MLR	Muntele Rosu	6.25 35	P	Pn	07 02 00.5 +0.7
MLR	Muntele Rosu	6.25 35	Pn	Pn	07 02 00.7 +0.9
MLR	Muntele Rosu	6.25 35	Pn	Pn	07 03 10.6 -0.8
MLR	Muntele Rosu	6.25 35	Pmax	Pmax	07 03 10.6 -0.8
MLR	Muntele Rosu	6.25 35	Pmax	Pmax	07 04 17.3
MLR	Muntele Rosu	6.25 35	JP	Pn	07 02 02.1 +2.2
MLR	Muntele Rosu	6.25 35	P	Pn	07 02 02.0 +2.2
ISR	Istrita	6.26 41	JP	Pn	07 02 02.4 +2.6
ISR	Istrita	6.26 41	P	Pn	07 02 02.4 +2.6
FDMO	Fiordimonte	6.29 296	P	Pn	07 02 06.6 +0.4
KIRA	zmir-Kiraz	6.33 109	P	Pn	07 02 02.7 +1.7
MANT	Manisa	6.34 106	P	Pn	07 02 03.1 +2.0
MANT	Manisa	6.34 106	P	Pn	07 02 02.1 +1.0
AMRR	Amara	6.34 48	JP	Pn	07 02 02.6 +1.7
AMRR	Amara	6.34 48	P	Pn	07 02 02.6 +1.7
NEHR	Nehou	6.36 38	JP	Pn	07 02 03.7 +2.4
ZAG	Zagreb	6.37 328	P	Pn	07 02 02.4 +1.0
ZAG	Zagreb	6.37 328	Pmax	Pmax	07 02 02.4 +1.0
ULDT	Uludag	6.39 91	P	Pn	07 02 02.1 -0.7
MARR	Marisel-Ciuj	6.39 15	JP	Pn	07 02 04.5 +2.7
DOPR	Dopca	6.43 323	JPn	Pn	07 02 03.4 +1.5
BOJS	Bojanci	6.43 323	JPn	Pn	07 02 02.9 +0.6
BOJS	Bojanci	6.43 323	JPn	Pn	07 02 02.9 +0.6

BOJS	Bojanci	6.43 323	e	Pn	07 02 27.7
BOJS	Bojanci	6.43 323	eSn	Pn	07 03 16.3 +0.6
BOJS	Bojanci	6.43 323	IAML	Pn	07 04 42.9
DRGR	Drigr	6.43 12	P	Pn	07 02 04.5 +2.2
DRGR	Drigr	6.43 12	Pmax	Pmax	07 02 04.5 +2.2
PTJ	Puntijarka	6.44 328	P	Pn	07 02 02.7 +0.2
YAZI	Mula-Datša	6.47 124	P	Pn	07 02 02.7 0.0
AYIN	Ayin-Nazilli	6.50 112	P	Pn	07 02 04.9 +1.3
CESJ	Cesice	6.50 292	P	Pn	07 02 03.8 +0.5
CRES	Creskijevac Ost	6.59 326	JPn	Pn	07 02 04.9 +0.5
USAK	Uak-Merkez	6.60 103	P	Pn	07 02 06.5 +1.9
BEVH	Becehely	6.64 335	Pn	Pn	07 02 05.6 +0.6
COVE	Voineasa-Covas	6.64 35	JP	Pn	07 02 07.2 +2.0
BISBR	Bisoca	6.65 39	JP	Pn	07 02 07.6 +2.4
GREP	Greben	6.66 41	JP	Pn	07 02 07.6 +2.3
OZUR	Ozur	6.67 31	JP	Pn	07 02 07.1 +1.6
MULA	Mugla, Merkez-	6.71 117	P	Pn	07 02 07.2 +1.0
HARR	Harsova	6.73 49	JP	Pn	07 02 07.9 +1.6
HARR	Harsova	6.73 49	P	Pn	07 02 07.8 +1.6
TURR	Turta	6.73 33	JP	Pn	07 02 08.2 +1.9
SILT	Sile	6.75 82	JP	Pn	07 02 08.3 +1.8
MURB	Monte Urbino	6.75 297	P	Pn	07 02 07.4 +0.7
PLOR	Plostina	6.85 37	JP	Pn	07 02 10.3 +2.3
PLOR	Plostina	6.85 37	P	Pn	07 02 10.2 +2.3
TIRR	Tirgost	6.88 52	P	Pn	07 02 09.3 +0.9
TIRR	Tirgost	6.88 52	JP	Pn	07 02 09.2 +1.1
TIRR	Tirgost	6.88 52	P	Pn	07 02 09.8 +1.5
VIRI	Vrincioia	6.89 37	JP	Pn	07 02 11.1 +2.5
VRI	Vrincioia	6.89 37	P	Pn	07 02 11.0 +2.5
CEVA	Cernicna	7.00 320	JPn	Pn	07 02 10.6 +0.6
TABO	Denizli Tavas	7.02 113	P	Pn	07 02 12.5 +2.5
KARP	Karpathos	7.06 133	P	Pn	07 02 13.6 +2.8
KARP	Karpathos	7.06 133	eP	Pn	07 02 15.2 +4.3
SKDS	Skadanscina	7.07 318	JPn	Pn	07 02 10.6 -0.4
BUD	Budapest	7.09 350	Pmax	Pmax	07 02 13.9 +2.7
TPGR	Topolog	7.11 50	JP	Pn	07 02 13.0 +1.5
CFR	Carcaliu	7.14 47	JP	Pn	07 02 13.4 +1.5
CFR	Carcaliu	7.14 47	P	Pn	07 02 13.3 +1.5
LJU	Ljubljana	7.17 323	P	Pn	07 02 12.8 +0.4
LJU	Ljubljana	7.17 323	JPn	Pn	07 02 12.7 +0.3
TRI	Trieste	7.31 318	P	Pn	07 02 13.6 -0.6
TRI	Trieste	7.31 318	P	Pn	07 02 13.6 -0.6
JURR	Jurjeva	7.32 52	JP	Pn	07 02 16.5 +1.5
TESR	Tescani	7.36 33	JP	Pn	07 02 16.5 +1.5
SCTR	Scantelesti	7.38 43	JP	Pn	07 02 18.3 +3.1
BMR	Baia Mare	7.42 14	P	Pn	

1d 7h

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Table with multiple columns containing station names (e.g., KEST, TUE, FUR, etc.), call signs (e.g., SUW, WLF, WMAI, etc.), frequencies, and various numerical values representing signal strength and other metrics.

PMRV	Marv??o	21.59 276	eP	P	07 05 17.4	0.0
PMRV	comp=Z,77nm,1.6s		i	Amb	07 05 31.8	
PMRV			eS	LR	07 09 14.4	-2.1
PMRV			eLR	S	07 10 03.6	
PMRV			i	AMS_20	07 14 14.3	
PBAR	Barrancos	21.61 273	eP	P	07 05 16.9	-0.6
PBAR	comp=Z,650nm,18.0s		i	Amb	07 05 47.5	
SKAR	Skarslia	21.62 343	eP	P	07 05 19.1	+1.5
NC204	NORSAR Array S	21.69 347	P	P	07 05 18.2	0.0
NC204	comp=Z,46nm,0.9s		i	Amb	07 05 27.1	
EKA	Eskaalemuir Ar	21.70 321	P	P	07 05 18.8	+0.4
EKA	comp=Z,1.0s,1.6s,baz=112,SNR=47		i	Amb		
PCAB	Cabril	21.71 283	eP	P	07 05 18.6	0.0
PCAB	comp=Z,249nm,1.0s		i	Amb	07 05 23.7	
ESK	Eskaalemuir	21.71 321	P	P	07 05 18.9	+0.5
ESK	comp=Z,110nm,1.4s		i	Amb	07 05 20.4	
ESK	Eskaalemuir	21.71 321	eP	P	07 05 18.5	0.0
ESK	comp=Z,36nm,1.1s		i	Amb	07 05 20.7	
ESK	Eskaalemuir	21.71 321	P	P	07 05 18.9	+0.5
ESK	comp=Z,117nm,1.3s		i	Amb		
MDT	Midelt	21.72 257	P	P	07 05 18.5	-0.4
MDT	comp=Z,24nm,0.9s,baz=86,slow=14,SNR=23		i	Amb		
MDT			LR	LR	07 13 25.5	
PVIS	Viseu	21.74 280	eP	P	07 05 18.6	-0.4
BELG	Belogomoye	21.84 48	P	P	07 05 20.7	+0.8
BELG	comp=Z,46nm,0.8s,baz=50,slow=2.6,SNR=23		i	Amb	07 14 19.7	
BELG	Belogomoye	21.84 48	i	Amb	07 05 19.9	0.0
BELG	comp=Z,68nm,19.1s,baz=276,slow=38		i	Amb		
BELG	Belogomoye	21.84 48	i	Amb	07 05 19.9	0.0
BELG	comp=Z,10.0nm,0.9s		i	Amb		
PGAV	Gavieira, Arco	21.86 283	eP	P	07 05 20.5	+0.2
PGAV	comp=Z,113nm,1.6s		i	Amb	07 05 26.9	
PGAV			eS	Sn	07 09 27.6	-4.0
PGAV			eLR	LR	07 13 48.9	
PGAV			i	AMS_20	07 17 01.5	
PESTR	Estremoz	21.86 275	eP	P	07 05 19.9	-0.4
PESTR	comp=Z,62nm,1.6s		i	Amb	07 05 36.5	
TAM	Tamrasset	21.87 221	P	P	07 05 23.4	+2.8
TAM	comp=Z,23nm,1.0s		i	Amb		
EDI	Edinburgh	22.04 322	eP	P	07 05 22.4	+0.4
BER	Bergen	22.09 339	eP	P	07 05 23.5	+1.0
NEWG	New Galway	22.10 320	eP	P	07 05 22.9	+0.3
PSARD	Sardao	22.14 277	eP	P	07 05 23.3	+0.1
PSARD	comp=Z,66nm,1.0s		i	Amb	07 05 24.6	
GALI	Galway	22.21 319	eP	P	07 05 23.6	-0.3
GALI	comp=Z,16nm,0.9s		i	Amb	07 05 27.8	
COI	Coimbra	22.21 279	P	P	07 05 23.4	-0.6
COI	comp=Z,67nm,0.9s		i	Amb	07 05 33.4	
COI	Coimbra	22.21 279	eP	P	07 05 23.7	-0.3
COI	comp=Z,100nm,1.7s		i	Amb	07 05 33.9	
COI	Coimbra	22.21 279	P	P	07 05 23.4	-0.6
COI	comp=Z,67nm,1.0s		i	Amb		
IWEX	Carriackbyrne,	22.25 311	P	P	07 05 25.2	+0.9
EVO	Evora	22.27 274	eP	P	07 05 23.7	-0.9
EVO	comp=Z,55nm,1.5s		i	Amb	07 05 40.7	
PBEJ	Beja	22.28 273	eP	P	07 05 24.9	+0.1
PBEJ	comp=Z,55nm,1.9s		i	Amb	07 05 59.7	
PMTG	Montargil	22.30 276	eP	P	07 05 23.9	-1.0
PMTG	comp=Z,74nm,1.8s		i	Amb	07 05 33.5	
PCAS	Casmilo, Conde	22.31 278	eP	P	07 05 25.7	+0.7
PCAS	comp=Z,62nm,1.3s		i	Amb	07 05 31.2	
PVAQ	Vaqueiros	22.34 271	P	P	07 05 25.4	-0.1
PVAQ	comp=Z,55nm,1.1s		i	Amb	07 05 26.7	
PVAQ	Vaqueiros	22.34 271	eP	P	07 05 25.3	-0.1
PVAQ	comp=Z,85nm,2.0s		i	AMS_20	07 05 47.9	
PVAQ	comp=Z,331nm,16.0s		i	AMS_20	07 15 20.4	
DSB	Dublin	22.36 314	P	P	07 05 26.3	+0.9
DSB	Dublin	22.36 314	P	P	07 05 26.5	+1.1
PCVE	Castro Verde	22.52 272	eP	P	07 05 27.5	+0.1
HYA	Hoyanger	22.54 341	eP	P	07 05 28.1	+0.8
HYA	comp=Z,54nm,1.0s		i	Amb	07 05 31.8	
PBDV	Barranco-do-Ve	22.55 271	eP	P	07 05 27.9	+0.2
PBDV	comp=Z,106nm,1.9s		i	Amb	07 06 26.8	
VAF	Ylistaro	22.60 2	P	P	07 05 29.0	+1.1
VAF	comp=Z,71nm,0.9s		i	Amb		
MESJ	Messejana	22.60 273	eP	P	07 05 28.1	-0.2
MESJ	comp=Z,69nm,13.9s		i	Amb	07 09 37.5	+1.7
MESJ	Messejana	22.60 273	eP	P	07 05 28.5	+0.3
MESJ	comp=Z,83nm,1.8s		i	Amb	07 05 56.1	
MESJ	Messejana	22.60 273	eP	P	07 05 28.0	-0.2
MESJ	comp=Z,94nm,2.1s		i	Amb	07 09 37.5	+1.7
PSBE	So Bento	22.64 277	eP	P	07 05 28.8	0.0
PSBE	comp=Z,94nm,2.1s		i	Amb	07 05 41.0	
ILTH	Beirugan, Co L	22.66 316	P	P	07 05 30.7	+2.0
DOMB	Dombas	22.71 346	eP	P	07 05 30.3	+1.2
DOMB	comp=Z,45nm,0.9s		i	Amb	07 05 35.9	
INVG	Invergelde, C	22.72 323	eP	P	07 05 28.7	-0.5
MORF	Marmeete	23.08 272	eS	S	07 09 45.6	+1.3
MORF	comp=Z,11nm,13.6s		i	AMS_20	07 20 40.3	
LIS	Lisbon	23.09 275	eS	S	07 09 45.2	+1.0
LIS	comp=Z,2um,12.4s		i	AMS_20	07 15 42.5	
AKN	Aaknes	23.25 344	eP	P	07 05 34.6	-0.1
PFVI	Vila Bisbo	23.27 271	eP	P	07 05 35.2	+0.1
KLMR	Klimovskoe	23.21 23	eP	P	07 05 34.3	-2.0
KLMR	comp=Z,63nm,0.9s		i	Amb	07 09 48.2	-1.0
KLMR	comp=Z,594nm,10.0s		i	Amb		
IDGL	Inch Island, C	23.74 317	P	P	07 05 39.2	-0.3
IGLA	Glangwyla, Co	24.09 313	P	P	07 05 41.8	-1.1
NS	Namos	24.61 351	P	P	07 05 49.4	+1.9
OUL	Oulu	24.80 5	P	P	07 05 49.2	0.0
OUL	comp=Z,40nm,0.9s		i	Amb		
KIRV	Kirov	25.62 35	LR	LR	07 16 34.4	
KIRV	comp=Z,824nm,19.8s		i	Amb		
KIRV	Kirov	25.62 35	eP	P	07 05 56.0	-0.7
MSF	Maasella	25.88 8	P	P	07 05 58.8	-0.3
MSF	comp=Z,32nm,2.1s		i	Amb		
LEIRJ	Leirfjorden	26.02 353	eP	P	07 06 04.1	+3.8
RAYN	Ar Rayn	26.81 122	P	P	07 06 08.5	+0.6
RAYN	Ar Rayn	26.81 122	P	P	07 06 08.5	+0.6
RAYN	comp=Z,11nm,1.0s		i	Amb		
AKTO	Aktyubinsk	27.67 56	LR	LR	07 18 37.4	
AKTO	comp=Z,746nm,22.0s		i	Amb		
APA	Apatity	27.99 10	i	Amb	07 06 15.9	-2.1
APA	comp=Z,8.0nm,0.7s		i	Amb		
APA	comp=Z,700nm,16.0s		i	Amb		
KTK1	Kautokeino	28.60 2	eP	P	07 06 24.0	+0.6
AB31	Akbulak array	28.82 59	P	P	07 06 25.3	-0.3
ABKAR	Akbulak array	28.82 59	P	P	07 06 24.8	-0.8

ARTI	Arti	29.11 44	P	P	07 06 27.2	-0.9
ARTI	comp=Z,16nm,0.5s		i	Amb	07 06 49.1	
ARTI	Arti	29.11 44	LR	LR	07 18 33.7	
ARTI	comp=Z,404nm,19.6s		i	Amb		
ARTI	Arti	29.11 44	i	Amb	07 06 27.0	-1.1
ARAO	ARCESS Array S	29.20 3	P	P	07 06 29.0	+0.2
ARAO	ARCESS Array B	29.20 3	P	P	07 06 27.6	-1.1
ARCES	comp=Z,46nm,1.3s		i	Amb	07 06 37.3	
ARCES	ARCESS Array B	29.20 3	P	P	07 06 27.7	-1.1
ARCES	comp=Z,3.7nm,0.5s,baz=187,slow=9.3,SNR=23		i	Amb	07 09 35.4	-0.3
ARCES	comp=Z,7.1nm,1.1s,baz=157,slow=3.4,SNR=3.9		i	Amb	07 19 44.4	
VADS	Vadso	30.02 6	eP	P	07 06 36.1	+0.1
VADS	Sverdlövsk	30.43 44	eP	P	07 06 40.9	+0.2
SVE	comp=Z,21nm,1.0s		i	Amb	07 11 49.5	+9.2
SVE	comp=Z,746nm,11.0s		i	Amb		
PMOZ	Porto Moniz, M	31.23 268	eS	S	07 11 58.0	+4.4
PMOZ	comp=Z,92nm,18.0s		i	AMS_20	07 19 16.2	
TORD	Torodi Ar. Bea	31.99 217	P	P	07 06 54.6	+0.7
TORD	comp=Z,51nm,1.9s		i	Amb	07 06 58.5	
MZR	Muzera	32.58 112	P	P	07 06 58.2	-0.8
BANOM	Banah	32.84 105	P	P	07 07 00.6	-0.7
ASUD	AI Ashush, Dub	32.89 108	P	P	07 07 01.6	-0.1
MAZ	Boroiday, Dubai	32.91 107	P	P	07 07 01.7	-0.3
MSFE	Esma-Masafi	33.06 106	P	P	07 07 03.5	+0.2
HRA	Herat	33.24 87	P	P	07 07 05.8	+0.8
UOSS	Minazif	33.34 107	P	P	07 07 05.0	-0.7
HATD	Hatta, Dubai	33.35 107	P	P	07 07 05.1	-0.7
ASHO	Ashlyyah	33.38 107	i	Amb	07 07 05.1	-1.0
JMIC	Jan Mayen	33.98 343	LR	LR	07 22 46.3	
SOHO	SOHO	34.06 108	i	Amb	07 07 11.0	-1.0
SOHO	comp=Z,205nm,18.4s		i	Amb		
BORG	Borgarnes	34.20 329	LR	LR	07 23 51.7	
BRVK	Borovoye	35.43 52	P	P	07 07 24.0	+0.5
BRVK	comp=Z,19nm,0.8s		i	Amb	07 07 24.8	
BRVK	Borovoye	35.43 52	eP	P	07 07 23.6	+0.1
BRVK	comp=Z,21nm,0.8s		i	Amb		
BVAR	Borovoye Array	35.50 52	P	P	07 07 24.5	+0.4
BVAR	comp=Z,9.3nm,0.8s,baz=269,slow=5.9,SNR=30		i	Amb	07 24 35.1	
BVAR	comp=Z,197nm,18.4s,baz=264,slow=41		i	Amb		
BRLS	Borolday	36.26 69	eP	P	07 07 29.6	-1.2
BRLS	Borolday	36.26 69	eP	P	07 07 29.7	-1.1
KK31	Karatay Array	36.72 69	P	P	07 07 34.1	-0.6
KK31	Karatay Array	36.72 69	P	P	07 07 34.1	-0.6
KK31	comp=Z,4.0nm,0.8s		i	Amb		
GAR	Karatay Array	36.72 69	P	P	07 07 34.0	-0.7
KKAR	Karatay Array	36.72 69	P	P	07 07 34.0	-0.7
SIMJ	Simiganj	36.84 77	P	P	07 07 36.2	+0.2
BRZS	Berezinski	37.07 57	eP	P	07 07 36.7	-0.8
BRZS	Berezinski	37.07 57	eP	P	07 07 36.8	-0.8
SCO	Scoresbysund	37.10 338	i	Amb	07 07 38.5	+1.1
GAR	Garm	37.71 76	P	P	07 07 43.5	+0.3
GAR	comp=Z,63nm,1.4s		i	Amb	07 08 09.3	
SPITS	Spitsbergen Ar	37.83 359	P	P	07 07 44.4	+0.7
SPITS	comp=Z,3.8nm,0.6s,baz=149,slow=12,SNR=7.8		i	Amb		
SPITS	comp=Z,4.0nm,0.6s,baz=128,slow=9.6,SNR=6.6		i	Amb		
SPITS	comp=Z,267nm,18.4s,baz=144,slow=40		i	Amb	07 25 33.5	
SPITS	comp=Z,3.8nm,0.6s		i	Amb		
KBL	Kabul	38.35 83	P	P	07 07 48.8	0.0
KBL	Kabul	38.35 83	P	P	07 07 48.8	0.0
KBL	comp=Z,13nm,0.8s		i	Amb		
BTLS	Baital	38.77 65	eP	P	07 07 51.3	-0.7
BTLS	Baital	38.77 65	eP	P	07 07 51.3	-0.7
LODK	Lodwar	39.19 157	P	P	07 07 52.7	+1.4
LODK	comp=Z,33nm,1.1s		i	Amb	07 07 58.8	
SGDS	Sogindny	39.55 67	eP	P	07 07 57.8	-0.8
AAK	Ala-Archa	39.67 69	P	P	07 08 00.1	+0.4
AAK	Ala-Archa	39.67 69	LR	LR	07 28 55.3	
AAK	Ala-Archa	39.67 69	LR	LR	07 08 00.1	+0.4
AAK	comp=Z,292nm,18.8s,baz=301,slow=43		i	Amb		
AAK	Ala-Archa	39.67 69	LR	LR	07 08 00.1	+0.4
DAG	Danmarks Havn	40.07 347	i			



Table with columns: Call sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like J18K Innoko River, BVCY Beaver Creek, K20K Telida, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like EYAK Cordova Ski Ar, YSS Yuzhno-Sakhali, M16K Timber Creek, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like NVAR comp=Z,0.7nm,0.7s, J18K Innoko River, etc.

TIR 01 07:06:21.0, 40:49N-20:77E, h6km, 1km, M3.0/1.7
THE 01 07:06:21.0, 41:1N-1:21E, h0km, 1km, M3.0/1.8, ML3.0/1.7
SKO 01 07:06:23.4, 40:49N-20:85E, h5km, ML3.0
ATH 01 07:06:23.1, 40:41N-20:90E, h6km, 1km, ML2.9/1.0

Table with columns: Code, Station Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like KBN Korca, NEST Nestorio, etc.

Table with columns: KZN, Zhan, 0.75 104, P, Pb, 07 06 36.6 -0.5, etc. Lists various stations and their coordinates.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes station names like Waiomatatini S, HAZ, Pakihiroa, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes station names like Mezcala, Platanillo, Malinalco, Edo, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes station names like Ampelaki, Thessaloniki, Tsoukalades, L, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes station names like CGIC, PAVE, PATR, THIG, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes station names like MSVF, RAO, GLKZ, FUTU, NIUE, etc.









Table with columns: Code, Station Name, Az, Az', Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Agios Georgios, Lefkada island, Paravola, Bajram Curri, etc.

IDC 01 08:25:51.6:3.0,33.26N:80.42E,h0km,mb3.5/4, mbtmp3.5/5,ML2.8/1, Error ellipse: s-maj=131.9km s-min=24.3km az=71.0,Xizang

Table with columns: Code, Station Name, Az, Az', Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Makanchi Array, Zalesovo Beam, Borovoye Array, Warramunga Arr, Alice Springs.

ROM 01 08:30:37.0:0.1,38.132N:0.004:15.177E:0.005, h10km,ML2.3/57,8C-3D, Error ellipse: s-maj=0.4km s-min=0.3km az=142.0,Sicily

Main table for the left column containing station data for various locations including Novara, Port Mandanici, Ucria, Vulcano Piano, etc.

Main table for the middle column containing station data for various locations including Pozzillo, Gagliano Caste, Filicudi I, Samo, Joppo, Alicudi, etc.

THE 01 08:36:53.0:40.42N:0.9:20.8E:0.9,h3km,2km,ML2.5/9, MLh2.5/9 TIR 01 08:36:52.6,40.42N:20.77E,h3km,1km,ML2.3/5,ML2.8/5

Manual Solution by A.Papageorgiou First location: 2019/06/01 08:38:08, This location: 2021/06/11 13:31:48

ISC 01 08:36:53.4:1.1,40.42N:0.02:20.80E:0.02,h4km,10km, n44,08/68/62,Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Nestorio, Korca, Ohrid, Kozani, etc.

JMA 01 08:37:29.4:0.2,25.1°N,1°E,122.5E:0.4,h3km,NW OFF ISHIGAKUJIMA IS

TAP 01 08:37:29.2,24.89N:122.43E,h16km,ML2.7,D ISC 01 08:37:29.2,1.1,24.87N:0.04:122.45E:0.03,h11km,10km, n38,08/47/57,Taiwan region

Table with columns: Code, Station Name, Az, Az', Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Santiao Chiao, EGS, EOS2, etc.

BE0 01 08:42:20.5,0.8,40.33N;21.06E,h0km,ML2.8/2
TIR 01 08:42:21.2,40.43N;20.77E,h3km,1km,ML3.2/5
THE 01 08:42:21.0,40.4N;1.0,2.1E, h3km,1km,ML2.6/13,
MLh2.5/13

ATH 01 08:42:23.7,40.40N;20.95E,h7km,1km,Manual Solution
by A.Andreou First location: 2019/06/01 08:43:24, This
location: 2020/08/11 09:05:56 ML Amplitudes are
expressed in micrometers, All distances are expressed in
degrees Latitude uncertainty: 1 km; Longitude uncertainty:
1 km

ISC 08:42:22.1,0.8,40.42N;0.02,20.88E,0.02,h13km,5km,
n64, s1501/91, Greece-Albania border region

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists various stations like Nestorio, Kozani, Korca, etc. with their coordinates and phase information.

ATH 01 08:57:08.5,40.47N;20.98E,h5km,1km,Manual Solution
by A.Andreou First location: 2019/06/01 08:58:19, This
location: 2020/08/11 09:38:47 ML Amplitudes are
expressed in micrometers, All distances are expressed in
degrees Latitude uncertainty: 2 km; Longitude uncertainty:
1 km

ISC 01 08:57:06.2,1.0,40.46N;0.02,20.89E,0.03,h7km,6km,
n56, s1523/72, Greece-Albania border region

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists various stations like Nestorio, Kozani, Korca, etc. with their coordinates and phase information.

IDC 01 09:03:25.3,3.0,40.29N;20.96E,h0km,mb3.2/5,
mbmp3.37,ML2.6/1,MS2.7/4,Error ellipse: s-maj=47.0km
s-min=29.6km az=12.0
TIR 01 09:03:27.9,40.48N;20.76E,h2km,1km,ML3.7/6
BE0 01 09:03:28.7,0.6,40.45N;21.10E,h8km,3km,ML3.1/12
ATH 01 09:03:28.6,40.52N;20.79E,h6km,1km,ML3.5/22

Manual Solution by G.Panopoulos First location:
2019/06/01 09:04:27, This location: 2019/06/01 10:56:38
ML Amplitudes are expressed in micrometers, All
distances are expressed in degrees Latitude uncertainty: 1
km; Longitude uncertainty: 1 km
THE 01 09:03:29.7,40.1N;2.2E, h0km,2km,ML3.3/23,
PDG 01 09:03:29.0,0.7,40.45N;20.84E,h13km,1km,ML3.5/11,
Error ellipse: s-maj=0.9km s-min=1.3km az=0.0
SKO 01 09:03:30.2,40.47N;20.89E,h5km,ML3.2
ISC 01 09:03:28.9,0.8,40.47N;0.01,20.84E,0.02,h12km,5km,
n135, s1533/196,mb3.1/4,1C-3D, Greece-Albania border
region

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists various stations like Korca, Nestorio, Kipourio, etc. with their coordinates and phase information.

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists various stations like IGT, IGT, IGT, etc. with their coordinates and phase information.

IDC 01 08:44:27.3,77.0,56.18N;44.73E,h0km,Error ellipse:
s-maj=324.7km s-min=87.6km az=106.0,Baltic
States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists stations like DUBNA INFRASO, I37NO, I26DE, I18DK.

IDC 01 08:52:08.2,12.0,17.93S;175.14W,h245km,67km,
mb3.7/3,mbmp4.3/4,Error ellipse: s-maj=147.6km
s-min=107.5km az=127.0, Tonga Islands

Table with columns: Code, Station Name, A° AZ°, Phase ID, Time, Res, ISC. Lists stations like MSVF, STKA, WRA, ASAR, ASAR, etc.

BE0 01 08:57:04.8,0.6,40.32N;21.03E,h0km,ML2.7/7
THE 01 08:57:07.6,40.4N;0.8,2.1E, h0km,1km,ML2.5/13,
MLh2.5/13





Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WULB Renai, WUSB, EYUL, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA, ASAR, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like NEST Nestorio, KBN Korca, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like IGT Kastanea, KTI, KEK, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CHVC Chvalec, OSTC Ostas, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KBN Korca, NEST Nestorio, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like IGT Igoumenitsa, IGT, PUK, etc.

m85.977, mb5.6/101, MLv6.0/11, Mw(mb)5.5/77, MmWmp5.1/47, Mwp5.4/47, GCMT 01 09:45:30.6.0.1.6.14N:0.01:126.55E:0.01, h82km, MW5.5/144, Moment Tensor Solution. s129.c218; s144.c259; Duration: 1s3 Moment tensor: Scale 10^17 Nm; Mn:0.04±.02; Mw:1.52±.02; Ms:1.56±.02; Ms:0.72±.02; Mw:0.36±.02; Mw:0.93±.02; Best double couple: M:1.97100x10^17 NP1:0.232,00000°, 853.00000°, 1.79.00000°. NP2:0.322,00000°, 889.00000°, 1.37.00000°. Principal axes: T 1.9560, P1g25.0000°, Azm193.0000°, N 0.0320, P1g53.0000°, Azm323.0000°, P -1.8860, P1g24.0000°, Azm91.0000°. nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment rate function. MOS 01 09:45:31.8.1.3.6.28N:126.59E, h88km, mb5.1/70, MS4.4/8. Error ellipse: s-maj=5.9, s-min=4.0, km az=117.0. ISC 01 09:45:28.9.0.3.6.18N:0.03:126.60E:0.04, h93km,2km, h94km;P-P, n1114, r1944/1083, mb5.2/284, 39C-28D.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like DAV Davao City (W), DAV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like MYLD Lahad Datu, LUWI Luwuk, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KDI Kendari, BNDI Bndaira, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like BSK Balipapan, BKB, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GENI Genyem, STKI Sintang, etc.

IDC 01 09:45:27.9.1.1.6.35N:126.81E, h86km,8km, mb4.6/27, mbmp4.9/27, MS4.1/47, Error ellipse: s-maj=14.5km s-min=8.8km az=67.0. MAN 01 09:45:27.8.6.21N:126.64E, h70km, mb6.0, ML5.0, MS5.5 MAN INTENSITY V - MATI CITY; GOVERNOR GENERAL ROSA DAVAO ORIENTAL; INTENSITY IV - DAVAO CITY; MANAY DAVAO ORIENTAL; INTENSITY III - GENERAL SANTOS CITY; SANTA CRUZ DAVAO DEL SUR; INTENSITY II - BUSIG CITY SURIGAO DEL SUR; GLAN SARANGANI; TUPU SOUTH COTABATO; INTENSITY I - GINGOOG CITY MISAMIS ORIENTAL; DAMULOG KADILINGAN AND KALILANGAN BUKIDNON. NEIC 01 09:45:28.6.2.1.6.19N:0.07:126.60E:0.08, h82km,1km, mb5.3/274, Mwb5.4/27, Mww5.4/43, Error ellipse: s-maj=14.5km s-min=9.9km az=60.0, Moment Tensor Solution. Moment tensor: Scale 10^17Nm; Mn:0.76; Mw:0.74; Ms:1.50; Mw:0.97; Mw:0.68; Mw:0.68; Fault plane solution: M1 76000°, 0.17° NP1:0.322, 77000°, 87.2° 210000°, 1.50.330000°. NP2:0.322, 260000°, 342.630000°, 1.54.290000°. Principal axes: T 1.7798, P1g47.0000°, Azm192.0000°, N -0.0441, P1g38.0000°, Azm336.0000°, P -1.7357, P1g18.0000°, Azm81.0000°. NEIC 01 09:45:29.5.6.20N:126.59E, h70km, Moment Tensor Solution. Duration: 2s5 Moment tensor: Scale 10^17Nm; Mw:0.61; Ms:0.76; Mw:1.37; Mw:0.69; Mw:0.35; Mw:0.73; Fault plane solution: M1.60000x10^17 NP1: 0.226, 47000°, 346.08000°, 1.157.650000°. NP2: 0.332, 38000°, 874.110000°, 1.46.160000°. Principal axes: T 1.5798, P1g43.0000°, Azm200.0000°, N 0.0397, P1g24.0000°, Azm347.0000°, P -1.6195, P1g17.0000°, Azm93.0000°. NEIC 01 09:45:29.5.6.20N:126.59E, h92km DJA 01 09:45:30.9.0.3.6.12N:127.7E, h99km,2km, MS.4/101, 3.1

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1d 9h

Main data table containing station names, coordinates, and various signal quality metrics across multiple columns.









Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, Azimuth, Elevation, etc. Includes stations like BR105, S31K, M31M, SKAG, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, Azimuth, Elevation, etc. Includes stations like STEI, EUNU, TESR, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, Azimuth, Elevation, etc. Includes stations like CLL, CLL, CLL, etc.

LDO 01 09:49:53.3, 1.8, 39.18N, 02:73:37.0, 0.04, h7km, 2km, Error ellipse: s-maj=5.9km s-min=3.0km az=105.0

NEIC 01 09:51.3, 1.3, 39.17N, 02:73:69.0, 0.05, h10km, 2km, M2.4/6, M2.0/6(LDO), Error ellipse: s-maj=6.5km

s-min=3.2km az=116.0, Off east coast of United States

Table with columns: Code, Station Name, Azimuth, Phase, Time, Res, etc. Includes stations like P61A, P61A, PANJ, etc.



1d 10h

KIBK	Kibwezi	53.21	82	P	P	10 27 05.5	+3.3
PMTG	Montargil	53.23	6	eP	i Amb	10 27 02.2	+0.5
CO01	comp=Z,26nm,1.6s Junta de Tor	53.37	243	I Amb	I Amb	10 27 13.7	
AC06	comp=Z,42nm,1.1s Mina Casimiro	53.45	246	I Amb	I Amb	10 27 12.8	
AC05	comp=Z,42nm,1.1s El Transito	53.45	244	I Amb	I Amb	10 27 19.4	
PSBE	comp=Z,42nm,1.1s So Bento	53.62	6	eP	i Amb	10 27 05.7	+1.1
PMRV	comp=Z,64nm,2.0s Marv???	53.68	7	eP	i Amb	10 27 06.0	+1.1
PMRV	comp=Z,48nm,1.4s					10 27 14.2	
PMRV				eLR	I AMs_20	10 39 02.3	
PMRV	comp=Z,246nm,20.0s					10 46 18.0	
PSARD	comp=Z,42nm,1.2s Sardao	53.76	6	eP	i Amb	10 27 06.6	+1.0
PSARD						10 27 08.5	
LCO	comp=Z,42nm,1.2s Las Campanas	53.84	244	P	pmax	10 27 09.6	+2.8
LCO	comp=Z,42nm,0.9s					10 27 13.1	
LMEL	comp=Z,19nm,0.9s Las Melosas	53.86	238	I Amb	I Amb	10 27 17.8	
H05S1	comp=Z,25nm,2.0s Guadeloupe/Mar	53.88	300	T	T	11 25 15.5	
VA03	comp=Z,25nm,0.9s San Esteban	54.02	240	I Amb	I Amb	10 27 17.2	
MT03	comp=Z,20.0s Universidad Ad	54.07	239	I AMs_20	I AMs_20	10 48 48.2	
PCBR	comp=Z,22nm,2.7s Castelo Branco	54.07	7	eP	i Amb	10 27 08.8	+1.0
PCAS	comp=Z,48nm,1.8s Casimilo, Conde	54.18	6	eP	i Amb	10 27 09.5	+0.9
PCAS						10 27 23.3	
PEL	comp=Z,39nm,1.1s Peldehue	54.18	239	I Amb	I Amb	10 27 08.7	-0.3
PEL						10 27 17.8	
PEL	comp=Z,39nm,1.1s Peldehue	54.18	239	P	pmax	10 27 08.7	-0.3
PEL						10 27 17.8	
BO04	comp=Z,29nm,1.1s La Punta	54.21	238	I Amb	I Amb	10 27 18.4	
BO04	comp=Z,25nm,1.0s					10 46 18.5	
PAB	comp=Z,21nm,21.0s San Pablo	54.22	10	P	P	10 27 08.6	-0.4
PAB						10 27 08.6	-0.4
CO02	comp=Z,20nm,1.3s Comarbal	54.25	242	I Amb	I Amb	10 27 20.8	
COI	comp=Z,38nm,1.1s Coimbra	54.34	6	I Amb	I Amb	10 27 18.0	
COI	comp=Z,31nm,0.8s Coimbra	54.34	6	eP	i Amb	10 27 11.1	+1.3
COI						10 27 22.8	
ESDC	comp=Z,40nm,2.2s Sonseca Array	54.41	10	P	P	10 27 10.2	-0.1
ESDC	comp=Z,7.0nm,0.8s,baz=190,slow=7.1,SNR=50	54.41	10	P	P	10 27 09.8	-0.6
ESDC						10 48 43.2	
BO02	comp=Z,602nm,20.4s,baz=183,slow=34 Sierra Bellavi	54.46	237	I Amb	I Amb	10 27 20.4	
KEST	comp=Z,33nm,1.1s Kesra	54.48	24	P	P	10 27 10.6	-0.4
KEST	comp=Z,19nm,0.9s,baz=272,slow=2.4,SNR=16					10 49 07.8	
KEST	comp=Z,19nm,0.9s Kesra	54.48	24	P	P	10 27 12.4	+1.4
KEST	SNR=7.2					10 27 12.4	+1.4
MTE	comp=Z,46nm,1.3s Manteigas	54.62	7	eP	i Amb	10 27 11.9	0.0
MTE						10 27 12.7	+0.8
MTE						10 27 26.4	
MTE	comp=Z,46nm,1.3s			eS	S	10 34 57.3	+6.0
MTE				eLR	LR	10 40 53.0	
MTE					I AMs_20	10 49 15.8	
BO01	comp=Z,412nm,18.0s Tunca	54.65	238	P	P	10 27 11.7	-0.7
BO01						10 27 15.1	
MT01	comp=Z,19nm,0.8s Popeta	54.73	238	I AMs_20	I AMs_20	10 45 59.2	
PVIS	comp=Z,71nm,22.0s Visu	54.89	6	eP	T	10 27 14.6	+0.8
H05N1	comp=Z,25nm,1.9s Guadeloupe/Mar	55.01	302	T	T	11 26 45.9	
PCRV	comp=Z,56nm,19.7s Puerto La Cruz	55.24	293	LR	LR	10 49 58.2	
MVO	comp=Z,56nm,1.6s Moncorvo	55.43	7	eP	i Amb	10 27 18.7	+1.0
MVO						10 27 27.5	
MVO				eS	S	10 35 11.1	+8.9
MVO				eLR	LR	10 44 43.2	
MVO	comp=Z,436nm,18.0s				I AMs_20	10 52 01.6	
PVRL	comp=Z,39nm,1.2s Vila Real	55.47	6	eP	i Amb	10 27 18.7	+0.8
PVRL						10 27 20.2	
POLO	comp=Z,22nm,1.0s Lamas de Olo	55.55	6	eP	i Amb	10 27 19.2	+0.5
POLO						10 27 27.3	
PCAB	comp=Z,87nm,0.9s Cabril	55.87	6	eP	i Amb	10 27 21.6	+0.7
PCAB						10 27 29.4	
PGAV	comp=Z,71nm,1.5s Gavieira, Arco	56.09	6	eP	i Amb	10 27 22.7	+0.2
PGAV						10 27 36.9	
PGAV	comp=Z,567nm,20.0s			eLR	LR	10 45 33.7	
PGAV					I AMs_20	10 50 03.5	
PBRG	comp=Z,32nm,1.9s Braganca	56.10	7	eP	i Amb	10 27 23.4	+0.9
PBRG						10 27 34.3	
MAHO	comp=Z,29nm,1.1s Mahon	56.51	17	I Amb	I Amb	10 27 34.3	
MAHO						10 49 50.9	
VNA1	comp=Z,19nm,20.0s Neumayer-Stat	56.64	178	I P	I P	10 27 26.3	+0.3
LL03	comp=Z,9.1nm,0.8s Petrouhe	56.73	230	I AMs_20	I AMs_20	10 47 47.7	
VNA2	comp=Z,110nm,0.8s,baz=343,slow=9.6 Neumayer-Watz	56.95	177	I P	I P	10 27 28.2	0.0
CZSB	comp=Z,19nm,20.0s Cruzeiro do Su	57.35	270	I AMs_20	I AMs_20	10 50 31.5	-0.4
CZSB						10 50 54.1	
MG01	comp=Z,19nm,20.0s Cruzeiro do Su	57.35	270	eP	P	10 27 31.6	-0.4
MG01						10 47 42.9	
VSL	comp=Z,24nm,1.1s Villasalto	57.81	22	I Amb	I Amb	10 27 35.0	+0.3
VSL						10 27 38.9	
VSL	comp=Z,71nm,18.0s					10 51 22.2	
BAUV	comp=Z,17nm,1.8s El Baul	57.91	290	P	P	10 27 34.6	-0.6
SNA4	comp=Z,145nm,0.9s Sanae	57.97	176	I P	I P	10 27 35.3	-0.2
SNA4						10 27 44.6	
SNA4	comp=Z,28nm,1.2s Sanae	57.97	176	I Amb	I Amb	10 27 34.8	-0.6
SNA4						10 27 44.6	
SNA4	comp=Z,6.2nm,0.9s,baz=321,slow=7.3,SNR=12					10 27 34.7	-0.7
SNA4						10 46 15.2	
SNA4	comp=Z,435nm,20.9s,baz=137,slow=30					10 27 35.7	+0.3
SNA4						10 50 54.1	
SNA4	comp=Z,22nm,1.7s Valguarnera	58.09	27	LR	LR	10 51 05.5	
VAE	comp=Z,629nm,18.8s,baz=236,slow=35					10 48 04.5	
USHA	comp=Z,57nm,21.9s,baz=60,slow=31					10 27 38.6	+0.7
CEST	comp=Z,57nm,21.9s,baz=60,slow=31					10 27 38.6	+0.7
TROLL	comp=Z,190nm,0.5s Troil, Antarti	58.79	174	I P	I P	10 27 41.3	+0.2
NVL	comp=Z,17nm,0.9s N'lazarevskaya	58.87	170	eP	pmax	10 27 42.4	+0.6
NVL						10 51 05.5	
ABPO	comp=Z,17nm,0.9s Ambohjanon	59.16	104	I AMs_20	I AMs_20	10 50 49.2	

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CEL	comp=Z,19nm,20.0s Celeste	59.39	28	I AMs_20	I AMs_20	10 55 40.1	
SJG	comp=Z,19nm,18.0s San Juan	60.12	301	LR	LR	10 50 41.7	
SDV	comp=Z,90,slow=53 Santo Domingo	60.16	289	I AMs_20	I AMs_20	10 52 41.1	
SDV	comp=Z,994nm,20.0s Santo Domingo	60.16	289	LR	LR	10 53 03.1	
TIP	comp=Z,25nm,1.2s Timpagrande	60.53	28	I Amb	I Amb	10 28 01.7	
NNA	comp=Z,19nm,18.4s,baz=110,slow=36 Nana	60.58	264	LR	LR	10 53 48.3	
PMSA	comp=Z,533nm,20.8s,baz=54,slow=30 Palmer Station	60.73	202	LR	LR	10 47 60.0	
CUC	comp=Z,25nm,1.2s Castruccio	60.78	26	P	P	10 27 55.0	-0.3
RUSC	comp=Z,25nm,1.2s La Rusia	61.38	285	P	I Amb	10 28 00.1	-0.4
RUSC						10 28 16.5	
SSB	comp=Z,30nm,1.3s Saint Sauveur	61.59	15	P	P	10 28 01.0	+0.4
INTR	comp=Z,30nm,1.3s Introdacqua	61.69	24	P	I Amb	10 28 01.6	+0.1
INTR						10 28 09.6	
CESX	comp=Z,15nm,1.0s Cesi	61.70	22	I Amb	I Amb	10 28 09.4	
IDI	comp=Z,18nm,1.1s Anoyia	61.72	36	P	P	10 28 01.4	-0.3
IDI	comp=Z,18nm,1.0s,baz=212,slow=5.2,SNR=6.6					10 55 06.4	
AQU	comp=Z,165nm,21.0s,baz=238,slow=36 L'Aquila	61.79	23	P	P	10 28 02.4	+0.4
BNI	comp=Z,18nm,1.0s Bardonecchia	61.95	17	P	I Amb	10 28 03.7	+0.5
BNI						10 28 12.1	
BNI	comp=Z,30nm,1.2s Bardonecchia	61.95	17	P	pmax	10 28 03.7	+0.5
BNI						10 28 09.6	
OSSC	comp=Z,30nm,1.3s Osservatorio P	62.02	21	P	P	10 28 02.9	-0.6
NRCA	comp=Z,998nm,22.0s Norcia	62.09	23	I AMs_20	I AMs_20	10 53 29.6	
MSSA	comp=Z,19nm,21.0s Maissana	62.14	19	I AMs_20	I AMs_20	10 52 52.9	
ROSC	comp=Z,4.5nm,0.3s,baz=122,slow=1.1,SNR=5.5 El Rosal	62.21	283	P	LR	10 28 05.8	0.0
ROSC						10 53 40.1	
FDMO	comp=Z,21nm,21.0s Fiordimonte	62.26	23	I Amb	I Amb	10 28 13.2	
FDMO						10 53 42.9	
ATD	comp=Z,19nm,21.0s Arta Tunnel	62.33	69	P	I Amb	10 28 05.1	-1.2
ATD						10 28 10.8	
ATD	comp=Z,22nm,1.0s Arta Tunnel	62.33	69	LR	LR	10 53 06.6	
ATD	comp=Z,5nm,20.0s,baz=10,slow=34					10 28 09.3	+3.0
KEK	comp=Z,19nm,20.0s Kerkira	62.37	29	I AMs_20	I AMs_20	10 54 15.8	
ATAH	comp=Z,19nm,21.0s Altahuajal	62.98	269	LR	LR	10 56 25.1	
TIR	comp=Z,19nm,18.1s,baz=129,slow=37 Tirane	63.69	28	I AMs_20	I AMs_20	10 55 48.8	
TEOL	comp=Z,19nm,19.0s Teolo	63.77	20	I Amb	I Amb	10 28 22.0	
TUE	comp=Z,18nm,1.1s Stuetta	64.02	18	I Amb	I Amb	10 28 24.3	
TUE						10 54 34.7	
PDG	comp=Z,19nm,21.0s Podgorica	64.27	27	I Amb	I Amb	10 28 27.2	
PDG						10 28 19.0	-0.8
DAVOX	comp=Z,19nm,21.0s Davos/Dischmat	64.46	18	P	P	10 28 19.0	-0.8
DAVOX	comp=Z,7.8nm,0.8s,baz=197,slow=6.5,SNR=1.1					10 54 51.3	
SYO	comp=Z,19nm,21.0s,baz=258,slow=35 Syowa Base	64.48	1611	eP	P	10 28 19.6	+0.1
SYO						10 28 23.0	-1.3
BYLA	comp=Z,19nm,21.0s,baz=258,slow=35 Belgrano 2</						



BRG	Berggiesshubel	69.34	19	eP	P	10 28 50.0	-0.6
BRG	comp=Z,6.0nm,0.9s					10 28 52.2	
BRG	Berggiesshubel	69.34	19	P	P	10 28 57.3	+6.8
BRG	comp=Z,9.9nm,1.1s					10 28 59.2	
MAUC	Maruska	69.37	22	eP	x	10 28 52.2	+1.3
MAUC	ex					10 28 58.3	
ANTO	Ankara	69.43	37	P	P	10 28 51.4	-0.1
ANTO	Karaka	69.43	37	P	P	10 28 52.0	+0.5
CLL	Collim	69.43	18	IAMS_20	IAMS_20	10 56 57.7	
CLL	comp=Z,772nm,22.0s						
CLL	Collim	69.43	18	eL	L	10 57 20.3	
CLL	comp=Z,694nm,21.6s						
CLL	Collim	69.43	18	eP	P	10 28 50.0	-1.1
CLL	comp=Z,11nm,1.1s						
CLL	ix					10 28 58.0	
CLL	comp=Z,56nm,2.4s						
CLL	iPP					10 31 22.0	-2.9
CLL	comp=Z,50nm,2.3s						
CLL	iSP					10 31 30.7	
CLL	comp=Z,58nm,2.3s						
CLL	eSx				Sx	10 37 50.0	
CLL	ex				S	10 41 54.0	
CLL	eSSS				S	10 45 42.0	
CLL	eSSS				S	10 47 00.0	
CLL	eSSS				S	10 47 00.0	
CLL	eSSS				S	10 57 00.0	
ASSE	Asse, Remling	69.49	16	eP	P	10 28 51.4	-0.1
ASSE	comp=Z,2.9nm,1.3s,baz=208,slow=6.4						
KRLC	Kraliky	69.59	21	eP	P	10 28 52.5	+0.3
KRLC	AMS					10 57 30.0	
KRLC	comp=Z,700nm,15.6s						
KRLC	Kraliky	69.59	21	eP	P	10 28 52.5	+0.3
KRLC	MLR						
RAYN	Ar Rayn	69.60	58	P	P	10 28 53.6	+0.7
RAYN	Ar Rayn	69.60	58	IAMS_20	IAMS_20		
RAYN	comp=Z,828nm,22.0s						
RAYN	Ar Rayn	69.60	58	P	P	10 28 54.7	+1.8
RAYN	Ar Rayn	69.60	58	P	P	10 28 53.6	+0.7
RAYN	comp=Z,11nm,1.1s						
MORC	Moravsky Berou	69.61	22	Iamb	Iamb	10 29 00.5	
MORC	comp=Z,26nm,1.2s						
MORC	Moravsky Berou	69.61	22	eP	P	10 28 52.0	-0.4
MORC	Moravsky Berou	69.61	22	P	P	10 28 52.4	-0.4
CHIV	Chivricco	69.64	298	IAMS_20	IAMS_20	11 04 23.5	
CHIV	comp=Z,172nm,21.0s						
KECS	Kecovo	69.65	24	eP	P	10 28 52.7	+0.1
KECS	e					10 29 00.2	
KECS	comp=Z,20nm,0.7s						
KECS	Kecovo	69.65	24	eP	P	10 28 52.7	+0.1
KECS	e					10 29 00.2	
DPC	Dobruska-Polom	69.66	21	eP	P	10 28 52.4	-0.3
DPC	AMS					10 58 30.0	
DPC	comp=Z,700nm,18.9s						
DPC	Dobruska-Polom	69.66	21	eP	P	10 28 52.4	-0.3
DPC	MLR						
NRDL	Niedersach Rie	69.67	16	eP	P	10 28 53.4	+0.9
NRDL	comp=Z,28nm,1.2s,baz=206,slow=6.4						
UPC	Ujice	69.69	20	AMS	AMS	10 58 20.0	
UPC	comp=Z,800nm,21.5s						
RETH	Rethem/Aller	69.70	15	eP	P	10 28 53.4	+0.7
RETH	comp=Z,84nm,1.7s,baz=206,slow=6.4						
MLR	Muntele Rosu	69.70	29	IAMS_20	IAMS_20	10 58 52.0	
MLR	comp=Z,772nm,20.0s						
MLR	Muntele Rosu	69.70	29	P	P	10 28 51.8	-1.3
MLR	comp=Z,22nm,1.1s,baz=182,slow=2.9,SNR=17						
MLR	LR					10 59 22.1	
CHVC	Chvalec	69.78	20	AMS	AMS	10 58 30.0	
CHVC	comp=Z,700nm,19.5s						
LANS	Liptovska Anna	69.80	23	eP	P	10 28 55.7	+2.2
LANS	e					10 29 01.8	
LANS	comp=Z,4.0nm,0.7s						
LANS	Liptovska Anna	69.80	23	eP	P	10 28 55.7	+2.2
LANS	e					10 29 01.8	
OSTC	Ostas	69.80	20	eP	P	10 28 54.1	+0.6
OSTC	ex					10 28 59.4	
OSTC	AMS					10 58 30.0	
OSTC	comp=Z,700nm,18.0s						
OSTC	Ostas	69.80	20	eP	P	10 28 54.1	+0.6
OSTC	e					10 28 59.4	
ESK	Eskdalemuir	69.82	7	P	Iamb	10 28 54.2	+0.7
ESK	comp=Z,31nm,1.1s					10 28 56.9	
ESK	Eskdalemuir	69.82	7	P	Pmax	10 28 54.2	+0.7
ESK	comp=Z,31nm,1.2s						
STEB	Steboriec	69.82	22	eP	P	10 28 54.2	+0.6
FLTG	Flechtingen	69.83	17	eP	P	10 28 53.8	+0.2
FLTG	comp=Z,122nm,2.1s,baz=206,slow=6.4						
BR131	Keskin Array S	69.83	38	P	P	10 28 54.1	0.0
BR131	comp=Z,21nm,1.2s					10 29 02.6	
BR131	Keskin Array S	69.83	38	P	P	10 28 54.7	+0.6
BR131	SNR=9.9						
BR131	SNR=9.9					10 28 54.7	+0.6
BR131	Keskin Array S	69.83	38	eP	P	10 28 54.4	+0.3
BRTR	Keskin Array B	69.83	38	eP	P	10 28 53.7	-0.4
BRTR	Keskin Array B	69.83	38	P	P	10 28 53.7	-0.4
BRTR	comp=Z,4.7nm,0.9s,baz=199,slow=7.3,SNR=22						
BRTR	BRTR	69.83	38	eP	P	10 28 54.5	+0.3
BRTR	comp=Z,199nm,20.3s,baz=244,slow=37						
EKA	Eskdalemuir Ar	69.84	7	P	P	10 28 53.0	-0.5
EKA	comp=Z,14nm,0.9s,baz=182,slow=5.9,SNR=21						
OKC	Ostrava-Krasne	69.87	22	AMS	AMS	10 58 20.0	
OKC	comp=Z,800nm,19.9s						
KSP	Ksiaz	70.07	20	P	P	10 28 55.3	+0.2
KSP	Ksiaz	70.07	20	P	P	10 28 57.9	+2.8
TJHR	Tirgusoz	70.16	31	P	P	10 28 53.1	-2.7
NIE	Niedzica	70.33	23	eP	P	10 28 58.2	+1.4
GAZ	Gaziantep	70.49	42	P	Iamb	10 28 59.1	+1.1
GAZ	comp=Z,31nm,1.3s					10 28 58.5	-0.4
BNN	Bunyan	70.63	40	P	P	10 28 59.8	+0.8
STHS	Stebnicka Huta	70.70	24	eP	P	10 28 59.7	+1.5
STHS	comp=Z,6.0nm,0.9s					10 29 07.1	
STHS	Stebnicka Huta	70.70	24	eP	P	10 28 59.8	+0.8
KOLS	Kolonickie sedl	70.72	25	eP	P	10 29 00.7	+1.5
KOLS	comp=Z,7.0nm,1.0s					10 29 07.1	
KOLS	Kolonickie sedl	70.72	25	eP	P	10 29 00.7	+1.5
ILGA	Ilgaz	70.73	37	IAMS_20	IAMS_20	10 58 37.1	
OJC	Ojcow	70.79	23	eP	P	10 28 58.8	-0.7
BURAR	Bucovina Array	70.96	27	P	P	10 29 00.5	-0.3
BURAR	Bucovina Array	70.96	27	P	P	10 29 00.5	-0.3
BUR08	Bucovina Ar.	70.97	27	P	P	10 29 00.4	-0.4
BSEG	Bad Segeberg	71.03	15	eP	P	10 29 01.2	+0.4
BSEG	comp=Z,28nm,1.2s,baz=206,slow=6.4						
BSEG	eL					11 01 15.3	
BRU2	Volcan	71.33	284	IAMS_20	IAMS_20	10 58 09.1	
BRU2	comp=Z,831nm,21.0s						
KSV	Kosov	71.42	27	P	P	10 29 02.1	-1.3
KVP	Kalvaria Pacia	71.45	25	eP	P	10 29 05.0	+1.5
LWV	L'vov	72.14	25	P	P	10 29 06.6	-1.1
MAW	Mawson	72.25	157	P	P	10 29 07.5	-0.7
MAW	comp=Z,6.6nm,0.8s,baz=286,slow=9.7,SNR=13						
ARPR	Arapgir-MALATY	72.33	41	P	Iamb	10 29 09.6	+0.3
ARPR	comp=Z,254nm,19.9s,baz=288,slow=31						
GBN	Guyborough	72.88	327	Iamb	Iamb	10 29 14.0	
GBN	comp=Z,2.2nm,1.0s						
COP	Copenhagen	73.14	16	iP	P	10 29 07.7	-5.7

COP	comp=Z,33nm,0.7s						
HAL	Halifax	73.48	326	Iamb	Iamb	10 29 24.7	
HAL	comp=Z,23nm,1.0s						
KBD	Katib	73.87	54	P	P	10 29 19.7	+1.3
ABTO	Aybut	73.87	67	P	P	10 29 20.7	+1.9
ABTO	ex					10 29 20.7	+1.9
ABTO	ex					10 29 21.1	-1.2
JTS	Las Juntas de	73.91	285	LR	LR	11 01 21.1	-1.2
JTS	comp=Z,4um,21.6s,baz=117,slow=35					10 29 53.5	
WHFO	Wadi Hawf	74.50	67	P	P	10 29 23.6	+1.3
WHFO	comp=Z,138nm,18.0s,baz=210,slow=37						
WHFO	Rabkut	74.74	67	P	P	10 29 26.3	+2.6
WHFO	FBK	74.74	67	P	P	10 29 26.3	+2.6
TRNA	Turayna	74.84	59	P	P	10 29 25.4	+1.3
LMN	Caledonia Moun	74.92	326	Iamb	Iamb	10 29 32.7	
LMN	comp=Z,30nm,1.1s						
SLWR	Sila	74.98	60	P	P	10 29 26.2	+1.3
SLWR	comp=Z,15nm,0.9s					10 29 23.7	-0.8
KIEV	Kiev	75.00	27	P	Iamb	10 29 31.8	
KIEV	comp=Z,33nm,1.1s						
KIEV	Kiev	75.00	27	P	P	10 29 23.7	-0.8
KIEV	comp=Z,33nm,1.1s						
KIEV	comp=Z,600nm,22.0s						
AKASG	Malin Aray B	75.01	27	P	Iamb	10 29 22.7	-1.8
AKASG	comp=Z,31nm,1.2s					10 29 31.4	
AKASG	Malin Aray B	75.01	27	P	P	10 29 23.5	-1.0
AKASG	comp=Z,15nm,0.9s,baz=225,slow=6.1,SNR=55						
AKASG	comp=Z,249nm,21.6s,baz=226,slow=36					11 02 42.6	
AKB7	Malin Aray Si	75.01	27	Iamb	Iamb	10 29 31.8	
AKB7	comp=Z,33nm,1.0s						
DOK	Doka	75.06	66	P	P	10 29 26.5	+1.0
DOK	SHMA	75.08	58	P	P	10 29 26.8	+1.2
SUW	Suwalki	75.09	22	eP	P	10 29 24.2	-0.7
SUW	Suwalki	75.09	22	IAMS_20	IAMS_20	11 02 50.3	
GGN	Saint George	75.58	325	Iamb	Iamb	10 29 37.0	
GGN	comp=Z,23nm,1.1s						
SOC	Sochi	75.79	37	eP	P	10 29 27.8	-1.4
SOC	comp=Z,19nm,0.9s					10 32 22.9	
SOC	comp=Z,19nm,0.9s					10 34 03.7	
SOC	comp=Z,19nm,0.9s					10 39 10.6	-0.3
SOC	comp=Z,19nm,0.9s					10 44 00.8	-2.5
VSLR	Vesolyoyle	75.91	38	iP	P	10 29 31.2	+1.3
VSLR	comp=Z,18nm,1.1s						
G6SA	Princeton	76.04	324	Iamb	Iamb	10 29 38.9	
G6SA	comp=Z,21nm,1.1s						
QSPA	South Pole Qui	76.05	180	P	P	10 29 31.1	+0.5
QSPA	comp=Z,12nm,0.8s,baz=200,slow=2.9,SNR=52						
HERN	Volcan Telica	76.38	287	IAMS_20	IAMS_20	11 00 15.9	
HERN	comp=Z,12nm,0.8s						
BATG	Bathurst New B	76.49	327	Iamb	Iamb	10 29 41.6	
BATG	comp=Z,362nm,21.0s						
HRV	Adam Dzewoski	76.85	320	P	Iamb	10 29 35.4	+0.1
HRV	comp=Z,34nm,1.1s					10 29 44.0	
HRV	Adam Dzewoski	76.85	320	P	P	10 29 35.4	+0.1
HRV	comp=Z,27nm,1.1s						
GNI							

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1d 10h		SWET		IAMS_20		IAMS_20		11 01 22.4	
LRLAL	Lakeview Retre	83.44	306	IAMB	P	10 30	10.8	-0.2	
LRLAL	comp-Z, 2.1nm, 1.5s								
U49A	Red Boiling Sp	83.81	310	IAMS_20	IAMS_20	11 00	25.4		
U49A	comp-Z, 6.31nm, 21.0s								
X48A	Hartselle	84.00	308	IAMB	IAMB	10 30	22.1		
U49A	comp-Z, 1.4nm, 1.1s								
U49A	Covington	84.21	314	IAMB	IAMB	10 30	23.0		
U49A	comp-Z, 1.6nm, 1.0s								
V48A	Smith Brothers	84.30	309	IAMB	IAMB	10 30	23.6		
V48A	comp-Z, 2.3nm, 1.1s								
AAM	Ann Arbor	84.60	316	IAMS_20	IAMS_20	11 00	13.1		
AAM	comp-Z, 5.61nm, 20.0s								
P48A	Milroy	84.69	313	IAMB	IAMB	10 30	24.7		
P48A	comp-Z, 5.94nm, 20.0s								
O48B	Farmland	84.81	314	IAMB	IAMB	10 30	25.7		
O48B	comp-Z, 1.7nm, 1.0s								
ICESG	Greenland Ices	84.88	351	I/P	P	10 30	14.5	-3.5	
ICESG	comp-Z, 1.1nm, 1.0s								
T47A	Sharon Grove	84.97	310	IAMB	IAMB	10 30	19.9		
T47A	comp-Z, 1.3nm, 1.0s								
PLAL	Pickwick Lake	84.98	308	IAMB	IAMB	10 30	26.5		
PLAL	comp-Z, 1.6nm, 1.1s								
BELG	Belogornye	85.06	33	P	P	10 30	18.6	-0.2	
BELG	comp-Z, 1.3nm, 0.7s, baz=282, slow=9.3, SNR=6.0								
BELG	comp-Z, 2.84nm, 20.0s, baz=262, slow=37								
BELG	comp-Z, 1.3nm, 0.7s								
BELG	Belogornye	85.06	33	I/P	P	10 30	18.3	-0.5	
BELG	comp-Z, 2.0nm, 0.9s								
SFJD	Kangerlussuaq	85.10	347	LR	LR	11 01	33.9		
SFJD	comp-Z, 1.96nm, 18.7s, baz=124, slow=31								
CMIG	Matias Romero	85.13	289	LR	LR	11 08	27.1		
CMIG	comp-Z, 3.72nm, 21.3s, baz=34, slow=36								
WVT	Waverly	85.20	309	IAMS_20	IAMS_20	11 01	47.4		
WVT	comp-Z, 6.64nm, 21.0s								
OXF	Oxford	85.84	307	IAMB	IAMB	10 30	30.9		
OXF	comp-Z, 2.25nm, 1.1s								
OLIL	Olney	86.34	311	IAMB	IAMB	10 30	33.6		
OLIL	comp-Z, 2.9nm, 1.2s								
GLAT	Glass	86.36	309	IAMS_20	IAMS_20	11 02	32.9		
GLAT	comp-Z, 5.15nm, 19.0s								
LNXT	Lenox	86.45	308	IAMS_20	IAMS_20	11 02	57.4		
LNXT	comp-Z, 5.55nm, 19.0s								
MET	Memphis-Engin	86.46	307	IAMS_20	IAMS_20	11 03	25.6		
MET	comp-Z, 5.92nm, 18.0s								
E46A	Sault Ste Mari	86.70	319	IAMB	IAMB	10 30	35.0		
E46A	comp-Z, 1.7nm, 1.3s								
PVMO	Portageville	86.72	309	IAMS_20	IAMS_20	11 02	36.5		
PVMO	comp-Z, 6.12nm, 21.0s								
SIUC	Southern Illin	86.81	310	IAMB	IAMB	10 30	35.5		
SIUC	comp-Z, 1.6nm, 1.0s								
SIUC	comp-Z, 6.20nm, 21.0s								
PARMO	Parma	86.84	309	IAMS_20	IAMS_20	11 02	57.8		
PARMO	comp-Z, 6.83nm, 20.0s								
PBMO	Poplar Bluff	87.39	309	IAMS_20	IAMS_20	11 03	24.4		
PBMO	comp-Z, 6.00nm, 20.0s								
L44A	Lake County Fo	87.46	315	IAMS_20	IAMS_20	11 01	38.9		
L44A	comp-Z, 3.92nm, 22.0s								
FVM	French Village	87.80	310	IAMB	IAMB	10 30	40.7		
FVM	comp-Z, 1.7nm, 1.0s								
FVM	comp-Z, 6.09nm, 20.0s								
FRB	Frobisher Bay	87.90	339	LR	LR	11 03	08.7		
FRB	comp-Z, 1.42nm, 19.4s, baz=110, slow=31								
SUMG	Summit	87.93	353	P	P	10 30	36.8	+3.8	
SUMG	comp-Z, 1.42nm, 19.4s, baz=110, slow=31								
SUMG	Summit	87.93	353	I/P	P	10 30	37.5	+0.5	
SUMG	comp-Z, 4.83nm, 21.0s								
K43A	Burlington	87.94	315	IAMS_20	IAMS_20	11 00	20.0		
K43A	comp-Z, 3.00nm, 1.4s								
ARCES	ARCES Array B	88.03	13	LR	LR	11 10	12.3		
ARCES	comp-Z, 2.25nm, 18.9s, baz=19, slow=36								
SBA	Scott Base	88.20	180	P	P	10 30	35.0	+1.1	
SBA	comp-Z, 2.5nm, 0.9s, baz=229, slow=5.8, SNR=1.3								
SBA	Scott Base	88.20	180	P	P	10 30	35.0	+1.1	
SBA	comp-Z, 2.5nm, 0.9s								
CCM	Cathedral Cave	88.43	310	P	P	10 30	35.1	-0.5	
CCM	comp-Z, 9.93nm, 2.0s								
CCM	Cathedral Cave	88.43	310	IAMB	IAMB	10 30	43.9		
CCM	comp-Z, 1.9nm, 1.0s								
CCM	Cathedral Cave	88.43	310	IAMS_20	IAMS_20	11 03	17.7		
CCM	comp-Z, 6.16nm, 20.0s								
CCM	Cathedral Cave	88.43	310	P	P	10 30	35.1	-0.5	
CCM	comp-Z, 9.93nm, 2.0s								
VNDA	Vanda	88.52	179	P	P	10 30	35.6	+0.3	
VNDA	comp-Z, 2.5nm, 0.9s, baz=229, slow=5.8, SNR=1.3								
VNDA	Vanda	88.52	179	P	P	10 30	35.5	+0.1	
VNDA	comp-Z, 2.5nm, 0.9s, baz=229, slow=5.8, SNR=1.3								
VNDA	Vanda	88.52	179	P	P	10 30	35.7	+0.3	
VNDA	comp-Z, 2.5nm, 0.9s, baz=229, slow=5.8, SNR=1.3								
MGMO	Mountain Grove	88.91	309	IAMS_20	IAMS_20	11 04	01.4		
MGMO	comp-Z, 5.2nm, 0.5s								
KIRV	Kirov	89.04	28	P	P	10 30	37.8	-0.1	
KIRV	comp-Z, 6.2nm, 0.5s, baz=277, slow=7.0, SNR=3.9								
KIRV	Kirov	89.04	28	LR	LR	11 12	51.0		
KIRV	comp-Z, 5.91nm, 18.2s, baz=243, slow=37								
LZV	Lovozero	89.10	171	I/P	P	10 30	37.9	-0.2	
LZV	comp-Z, 5.2nm, 0.5s								
HKT	Hockley	89.59	301	I/P	P	10 30	39.5	-1.7	
HKT	comp-Z, 3.0nm, 0.9s								
AKTO	Aktjubinsk	90.02	38	P	P	10 30	42.3	-0.5	
AKTO	comp-Z, 7.3nm, 0.9s, baz=242, slow=3.3, SNR=18								
AKTO	Aktjubinsk	90.02	38	LR	LR	11 14	53.7		
AKTO	comp-Z, 2.00nm, 20.1s, baz=270, slow=38								
TREL	Terrell	90.58	304	IAMB	IAMB	10 30	54.7		
TREL	comp-Z, 2.23nm, 1.2s								
DAG	Danmarks Havn	90.74	359	P	P	10 30	47.1	+1.5	
DAG	comp-Z, 1.5nm, 1.9s								
DAG	Danmarks Havn	90.74	359	I/P	P	10 30	46.0	+0.4	
DAG	comp-Z, 1.1nm, 1.0s								
AB31	Akbulak array	90.74	39	P	P	10 30	46.0	-0.2	
AB31	comp-Z, 1.5nm, 1.9s								
AB31	Akbulak array	90.74	39	P	P	10 30	45.2	-1.0	
AB31	comp-Z, 1.5nm, 1.9s								
WFS6	Azle	91.84	303	IAMS_20	IAMS_20	11 06	45.2		
WFS6	comp-Z, 4.45nm, 20.0s								
T35A	Sooner Cattle	92.08	307	IAMS_20	IAMS_20	11 07	07.5		
T35A	comp-Z, 4.93nm, 18.0s								
OK051	E0350 and S346	92.22	307	IAMS_20	IAMS_20	11 11	26.1		
OK051	comp-Z, 5.67nm, 20.0s								
HND0	Hondo	92.37	300	P	P	10 30	54.2	0.0	
HND0	comp-Z, 2.2nm, 1.0s								
PLPT	Palo Pinto	92.41	303	IAMB	IAMB	10 30	54.1	-0.2	
PLPT	comp-Z, 9.9nm, 1.0s								
ARTI	Arti	92.46	32	P	P	10 30	53.8	-0.2	
ARTI	comp-Z, 1.4nm, 1.1s								
ARTI	Arti	92.46	32	P	P	10 30	53.5	-0.5	
ARTI	comp-Z, 5.8nm, 0.8s, baz=326, slow=2.4, SNR=8.2								
ARTI	Arti	92.46	32	LR	LR	11 15	58.1		
ARTI	comp-Z, 2.60nm, 18.0s, baz=256, slow=38								
ARTI	Arti	92.46	32	I/P	P	10 30	54.0	0.0	
ARTI	comp-Z, 5.8nm, 0.8s, baz=326, slow=2.4, SNR=8.2								
ARTI	Arti	92.46	32	S	SKSac	10 34	36.6		
ARTI	comp-Z, 2.60nm, 18.0s, baz=256, slow=38								
ARTI	Arti	92.46	32	SS	SS	10 41	27.6	+0.7	
ARTI	comp-Z, 5.8nm, 0.8s, baz=326, slow=2.4, SNR=8.2								
ARTI	Arti	92.46	32	SS	SS	10 48	11.6	+2.6	
ARTI	comp-Z, 2.60nm, 18.0s, baz=256, slow=38								
BRDY	Brady	92.58	301	IAMB	IAMB	10 31	03.5		
BRDY	comp-Z, 7.0nm, 0.9s								
WTF5	Witchita Falls	92.78	304	IAMB	IAMB	10 31	04.4		
WTF5	comp-Z, 9.4nm, 1.0s								
JCT	Junction City	93.05	301	P	P	10 30	56.9	-0.5	
JCT	comp-Z, 1.2nm, 0.9s								
JCT	Junction City	93.05							















Table with columns: PDG, Podgorica, 2.30 330, i/P, Pb, 12.47 52.6 -1.4, etc. Lists various meteorological data points for Podgorica and other locations.

Table with columns: CLL, Collm, 12.14 336, eP, Pn, 12.50 05.0 -0.3, etc. Lists meteorological data for various stations including Sonseca Array, Hagfors, and others.

Table with columns: KZN, Kozani, 0.75 97, P, Pb, 13.01 41.9 +0.5, etc. Lists meteorological data for stations in Kozani, Sarande, and other regions.

IDC 01 13:00:03.74.6.23:005:177:18W, h0km, mb3.9/4,

mBtmp:3.9/4, Error ellipse: s-maj=288.0km, s-min=34.6km az=156.0, South of Fiji Islands

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res. Lists station data for ASAR Alice Springs and WRA Warrumbungar Arr.

SCB 01 13:00:10.4.0.8.21:87S:67:37W, h159km, gkm, ML3.4/2, MW3.2, Error ellipse: s-maj=6.4km s-min=3.7km az=0.0,

ISC 01 13:00:08.2.2.1.21:95S:0:06:67:40W, 0.05, h163km, 18km, n20, r1924/30,3C, Chile-Bolivia border region

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res. Lists station data for various stations including IPOC Station P, YJA Yavi, and others.

NAO 01 13:01:14.6.39:69N:23:03E, h10km, mb3.7

BE01 13:01:23.4.0.5.40:20N:20:87E, h0km, ML3.3/10, IDC 01 13:01:23.6.1.7.40:37N:20:68E, h0km, mb3.2/4,

mBtmp:3.9, ML3.0/4, MS2:9/9, Error ellipse: s-maj=26.6km s-min=19.0km az=39.0

TIR 01 13:01:26.0.40:42N:20:75E, h1km, 2km, M3.6/3, ATH 01 13:01:26.8.40:35N:20:82E, h9km, 1km, ML3.2/16,

Manual Solution by A. Agalos First location: 2019/06/01 13:02:38, This location: 2019/06/01 13:23:30 ML

Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km

SKO 01 13:01:27.9.40:40N:20:88E, h11km, ML3.3, PDG 01 13:01:27.2.1.40:50N:20:80E, h7km, 2km, ML3.5/10,

Error ellipse: s-maj=1.1km s-min=2.2km az=0.0, THE 01 13:01:29.8.40:N:2:1E, h5km, 1km, M3.1/35,

ISC 01 13:01:26.3.0.8.40:40N:0:02:20:80E, 0.02, h10km, gkm, n156, r1933/202, mb3.4/3, MS2.9/4, 13C-7D, Greece-Albania border region

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res. Lists station data for various stations including Nestorio, Kora, and others.

BOSS Bosilegrad, 2.45 317 ePn, Pb, 13.01 40.7 +0.8

BOSS Kokkinochori, 2.47 79 ePn, Pb, 13.02 39.7 -0.9

BOSS Kokkinochori, 2.47 79 ePn, Pb, 13.02 39.7 -0.9

BOSS Mumoshishta, 2.51 62 i/Pn, Pb, 13.02 06.8 -0.4

BARS Barje, 2.53 17 ePn, Pb, 13.02 07.8 +0.4

BARS Barje, 2.53 17 ePn, Pb, 13.02 07.8 +0.4

IVAs Berane, 2.56 345 ePn, Pb, 13.02 42.8 -0.2

IVAs Berane, 2.56 345 ePn, Pb, 13.02 42.8 -0.2

CEME Cevo, 2.57 327 i/Pn, Pb, 13.02 08.3 +0.3

CEME Cevo, 2.57 327 i/Pn, Pb, 13.02 08.3 +0.3

KOME Kolasin, 2.63 339 ePn, Pb, 13.02 10.2 +1.3

KOME Kolasin, 2.63 339 ePn, Pb, 13.02 10.2 +1.3

HCY Herceg Novi, 2.68 321 i/Pn, Pb, 13.02 09.9 +1.8

HCY Herceg Novi, 2.68 321 i/Pn, Pb, 13.02 09.9 +1.8

SELS Selova, 2.83 5 ePn, Pb, 13.02 12.8 +1.3

SELS Selova, 2.83 5 ePn, Pb, 13.02 12.8 +1.3

KAVA Kavala, 2.89 77 ePn, Pb, 13.02 12.9 +0.6

SJES Sjenica, 2.93 348 ePn, Pb, 13.02 14.7 +1.8

1d 13h

Table with columns: MLR, Muntele Rosu, 6.34 35 Pn, 13 03 00.0+0.2, etc. Lists various stations and their coordinates and times.

BEO 01 13:09:45.8±0.6, 40:34N±21.03E, h0km, 2km, ML3.3/12
ATH 01 13:09:45.1±1.5, 40:33N±20.69E, h0km, mb3.2/5,
m1bmp3.3/9, ML3.4/4, Error ellipse: s-maj=24.0km
s-min=17.7km az=165.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Lists station codes and names like Korca, Nestorio, etc.

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Main table with columns: Station Name, Az, Az', Phase ID, Time Res, ISC. Lists numerous stations and their coordinates and times.

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Table with columns: Station Name, Az, Az', Phase ID, Time Res, ISC. Lists stations like WATA, SOTA, SOKA, etc.

BEO 01 13:42:15.5±0.6, 40:20N±20.97E, h0km, ML3.1/8
IDC 01 13:42:17.9±1.7, 40:44N±20.79E, h0km, mb3.5/6,
m1bmp3.5/10, ML3.1/3, MS2.6/2, Error ellipse:
s-maj=21.3km s-min=18.7km az=19.0

Code	Station Name	A°	AZ°	Phase	ID	Time	Res
n146.01808/189,mb3.6/5,9C-12D, Greece-Albania border region							
NEST	Nestorio	0.23	81	Op	ISC	h	s
NEST	Nestorio			Pg	ISC	13 42 23.8	+0.4
NEST	Nestorio			Sg	ISC	13 42 27.8	+1.2
NEST	Nestorio			AML	AML	13 42 28.6	
22nm,0.2s							
NEST	Nestorio	0.23	81	P	Pg	13 42 23.9	+0.4
NEST	Nestorio			S	Pg	13 42 26.6	+0.2
NEST	Nestorio	0.23	81	P	Pg	13 42 23.8	+0.4
NEST	Nestorio			S	Pg	13 42 27.7	+0.2
KBN	Korca	0.24	5	Pg	Pg	13 42 22.6	-1.2
KBN	Korca			Sg	Sg	13 42 26.2	-0.9
KBN	Korca			AML	AML	13 42 27.0	
87nm,0.4s							
PENT	Pentalofos	0.34	122	P	Pg	13 42 26.1	+0.4
PENT	Pentalofos			S	Pg	13 42 30.8	+0.5
PENT	Pentalofos	0.34	122	P	Pg	13 42 25.7	0.0
PENT	Pentalofos			S	Pg	13 42 29.3	-0.9
KPRO	Kipourio	0.63	132	P	Pg	13 42 31.1	0.0
KPRO	Kipourio			S	Pg	13 42 31.0	+1.9
KPRO	Kipourio	0.63	132	P	Pg	13 42 38.6	-0.7
KPRO	Kipourio			S	Pg	13 42 38.6	-0.7
MSVA	Metsovo	0.69	152	P	Pg	13 42 32.2	0.0
MSVA	Metsovo			S	Pg	13 42 40.8	-0.5
JAN	Janina	0.73	174	P	Pg	13 42 32.5	-0.4
JAN	Janina			S	Pg	13 42 43.6	+1.2
JAN	Janina	0.73	174	P	Pg	13 42 40.4	0.4
JAN	Janina			S	Pg	13 42 42.3	-0.1
OHR	Ohrid	0.73	211	Pg	Pg	13 42 32.4	-0.5
OHR	Ohrid			Sg	Sg	13 42 43.0	+0.5
OHR	Ohrid			elg	elg	13 42 43.5	
comp=E,1.1um,0.6s							
OHR	Ohrid	0.73	2	ePg	Pg	13 42 32.2	-0.8
OHR	Ohrid			Sg	Sg	13 42 43.0	+0.5
SRN	Sarande	0.77	229	P	Sn	13 42 48.1	+0.3
SRN	Sarande			AML	AML	13 42 48.1	
comp=N,2.1nm,0.3s							
KZN	Kozani	0.78	95	P	Pg	13 42 33.3	-0.5
KZN	Kozani			S	Pg	13 42 35.1	+1.5
IGT	Igoumenitsa	0.91	201	P	Pb	13 42 37.7	+0.8
IGT	Igoumenitsa			Sg	Sg	13 42 52.9	+1.5
IGT	Igoumenitsa	0.91	201	P	Pg	13 42 36.6	+0.3
IGT	Igoumenitsa			S	Pg	13 42 51.0	+0.3
IGT	Igoumenitsa	0.91	201	Pg	Pg	13 42 53.1	+1.7
IGT	Igoumenitsa			Sg	Sg	13 42 53.1	+1.7
VLO	Vlora	0.97	276	P	Pg	13 42 38.8	0.0
VLO	Vlora			Sg	Sg	13 42 53.3	+0.6
KEK	Kerkira	0.99	228	P	Sn	13 42 38.6	+0.2
KEK	Kerkira			S	Sn	13 42 54.8	+1.4
NASA	Naoussa	1.03	76	P	Pb	13 42 38.9	-0.1
KTI	Kastanea	1.04	89	P	Pb	13 42 39.2	0.0
TETR	Tetrakomo, Epi	1.11	159	Pg	Pg	13 42 39.9	-0.5
TIR	Tirane	1.18	235	Pg	Pg	13 42 59.4	+2.6
TIR	Tirane			AML	AML	13 43 04.5	
comp=N,1.9nm,0.9s							
TIR	Tirane	1.18	325	Pg	Pn	13 42 40.4	-1.3
TIR	Tirane			Sg	Pn	13 42 40.4	-1.3
TIR	Tirane	1.18	325	ePg	Pn	13 42 39.3	-2.4
TIR	Tirane			Sg	Pn	13 43 00.1	+3.3
THL	Klokotos Trika	1.26	130	P	Sn	13 42 42.4	-0.5
THL	Klokotos Trika			S	Sn	13 43 00.4	+0.3
THL	Klokotos Trika	1.26	130	P	Sn	13 42 41.9	-1.0
TYRN	Tyrnavos	1.31	120	P	Sn	13 42 41.9	-1.0
TYRN	Tyrnavos			S	Sn	13 43 01.7	+0.4
TYRN	Tyrnavos	1.31	120	P	Sn	13 42 43.0	-0.6
AMPL	Ampeleki	1.50	166	P	Pb	13 42 47.4	+0.4
AMPL	Ampeleki			S	Pb	13 43 07.5	+0.4
TSKL	Tsoukalades, L	1.56	183	P	Pn	13 42 48.6	+0.8
TSKL	Tsoukalades, L			Pn	Pn	13 42 47.6	+0.7
LKD2	Lefkada island	1.56	183	P	Pn	13 42 48.1	+0.7
VAY	Valandovo	1.67	55	P	Pn	13 42 49.1	+0.7
VAY	Valandovo			PH	Pn	13 42 49.2	+0.8
VAY	Valandovo	1.67	55	ePg	Sg	13 43 14.9	+2.5
VAY	Valandovo			elg	Sg	13 43 19.5	
comp=N,264nm,1.0s							
VAY	Valandovo			elg	Lg	13 43 21.6	
comp=E,206nm,0.8s							
NYDR	Nydril-Lefkada	1.67	182	P	Pn	13 42 49.2	+0.8
SKO	Skojpe	1.67	182	ePn	Pn	13 42 48.4	+0.9
THE	Thessaloniki	1.70	81	Pn	Pn	13 42 48.9	+0.1
THE	Thessaloniki			PH	Pn	13 42 50.4	+1.5
EVGI	Lefkada island	1.76	183	P	Pn	13 42 50.1	+0.4
EVGI	Lefkada island			Pn	Pn	13 42 49.7	0.0
SCIE	Santa Cesarea	1.76	261	P	Pn	13 42 50.2	-0.2
HORT	Horiatias	1.80	62	P	Pn	13 42 49.8	-0.5
HORT	Horiatias			Pn	Pn	13 42 50.1	-0.2
KNT	Kendrikon	1.80	64	P	Pn	13 42 51.2	+0.9
KNT	Kendrikon			PH	Pn	13 42 50.5	+0.2
KNT	Kendrikon	1.80	64	P	Pn	13 42 50.5	+0.2
AGG	Agios Georgios	1.82	138	P	Pn	13 42 51.0	+0.4
AGG	Agios Georgios			Pn	Pn	13 42 51.0	+0.4
PVO	Paravola	1.86	161	P	Pn	13 42 51.2	+0.1
ULC	Ulcinj	1.95	325	PH	Pn	13 42 52.3	-0.1
ULC	Ulcinj			PH	Sb	13 43 19.3	+0.1
ANX	Ano Chora	2.00	153	P	Pn	13 42 53.4	+0.3
ANX	Ano Chora			PH	Pn	13 42 54.0	+0.8
SOH	Sokhos	2.02	77	P	Pn	13 42 53.4	-0.1
PLG	Polygyros	2.05	89	P	Pn	13 42 54.9	+1.1
PLG	Polygyros			Pn	Pn	13 42 53.9	+0.1
PDG	Podgorica	2.16	327	ePn	Pn	13 42 55.8	+0.6
PDG	Podgorica			PH	Sb	13 42 56.1	+1.0
DRME	Dracevica, Mon	2.16	327	PH	Sb	13 43 24.7	-0.6
DRME	Dracevica, Mon			PH	Sb	13 43 24.7	-0.6
AXAR	Agios Charalam	2.18	137	P	Pn	13 42 55.0	-0.6
SRS	Serrai	2.27	70	PH	Pn	13 42 58.1	+1.3
SRS	Serrai			PH	Pn	13 42 57.7	+0.9
KKB	Krupnik	2.31	50	PH	Pn	13 42 59.3	+2.0
PDG	Podgorica	2.34	332	ePn	Pn	13 42 58.3	+0.6
PDG	Podgorica			PH	Sb	13 42 58.2	+0.6
PDG	Podgorica	2.34	332	PH	Sb	13 42 58.3	+0.6
PDG	Podgorica			PH	Sb	13 42 58.1	+0.5
PDG	Podgorica	2.34	332	PH	Pn	13 42 58.1	+0.5
PDG	Podgorica			PH	Sb	13 42 58.7	+1.6
BUM	Brajici-Budva	2.38	324	PH	Pn	13 42 58.9	+0.6
BUM	Brajici-Budva			PH	Sn	13 43 28.2	+0.6
BOSS	Bosilegrad	2.48	31	ePn	Pn	13 42 59.4	-0.2
BOSS	Bosilegrad			PH	Sn	13 43 30.8	+0.7
KOKK	Kokkinochori	2.51	79	P	Pn	13 42 59.8	-0.1
BARS	Barje	2.56	18	PH	Pn	13 43 08.5	-0.1
BARS	Barje			PH	Pn	13 43 00.4	-0.3
BARS	Barje	2.56	18	ePn	Pn	13 43 33.5	+1.4
CEME	Cevo	2.57	328	PH	Pn	13 43 31.0	+0.1
CEME	Cevo			PH	Sn	13 43 34.4	+0.2
IVA	Berane	2.57	346	PH	Pn	13 43 01.6	+0.6
IVA	Berane			PH	Sn	13 43 31.9	+1.3
KOME	Kolasin	2.64	340	PH	Pn	13 43 02.7	+0.8
KOME	Kolasin			PH	Sn	13 43 35.9	+1.8
HCY	Herceg Novi	2.67	321	ePn	Pn	13 43 01.3	-1.0
HCY	Herceg Novi			PH	Pn	13 43 02.1	-0.2
HCY	Herceg Novi	2.67	321	PH	Pn	13 43 37.3	+2.4
HCY	Herceg Novi			PH	Sn	13 43 33.9	+0.9
SELS	Selva	2.85	5	PH	Pn	13 43 06.0	+0.4
VIL2	Platees	2.91	137	P	Pn	13 43 05.5	-0.2
KAVA	Kavala	2.92	77	P	Pn	13 43 05.5	-0.2
SJES	Sjenica	2.94	349	ePn	Pn	13 43 06.4	+0.4
SJES	Sjenica			PH	Pn	13 44 01.9	+2.9
TRES	Trebinje	2.95	323	PH	Pn	13 43 07.5	-0.4
BRY	Bratogost	3.02	327	PH	Pn	13 43 07.4	+0.3
BRY	Bratogost			PH	Pn	13 43 07.8	+0.7
BRY	Bratogost	3.02	327	PH	Pn	13 43 45.3	+1.7
MATE	Matera	3.10	276	PH	Pg	13 43 17.0	-1.3
PLE	Piljevija	3.12	341	PH	Pn	13 43 48.1	+0.1
PLE	Piljevija			PH	Sn	13 43 47.7	+1.7
UPM	Unac-Piva	3.14	334	ePn	Pn	13 43 10.3	+1.4
UPM	Unac-Piva			PH	Pn	13 43 09.5	+1.6
UPM	Unac-Piva	3.14	334	PH	Pn	13 43 48.1	+1.4
UPM	Unac-Piva			PH	Pn	13 43 08.3	-1.0
COCS	Kraljevo Serbi	3.18	2	PH	Pn	13 43 08.3	-1.0
ZAPS	Zavoj	3.21	25	ePn	Pn	13 43 08.4	-0.1
IVAS	Ivanjica	3.22	352	ePn	Pn	13 43 08.4	-0.1
TIP	Timpaigrande	3.31	250	PH	Pn	13 43 13.7	+2.6
BOVS	Bovan	3.33	12	PH	Pn	13 43 10.8	-0.4
BOVS	Bovan			PH	Pn	13 43 10.5	-0.8

Code	Station Name	A°	AZ°	Phase	ID	Time	Res
BOVS	Ston	3.38	318	ePn	Pn	13 43 51.3	+0.3
STON	Ston			PH	Pn	13 43 11.8	-0.2
RUDD	Rudo	3.40	343	ePn	Pn	13 43 11.7	-0.5
ZRUGS	Gruga	3.50	359	ePn	Pn	13 43 12.7	-1.0
ZRUGS	Zajecar	3.60	17	ePn	Pn	13 43 14.2	-0.8
BBL5	Laz#2631	3.62	344	ePn	Pn	13 43 16.0	+0.6
BBL5	Laz#2631			PH	Pn	13 43 16.0	+0.6
DIVS	Dizbar	3.76	352	ePn	Pn	13 43 16.9	-0.4
BORS2	Bor- Borsko je	3.82					







1d 15h

Table with columns for station name, frequency, power, and signal strength. Includes stations like Barranco-do-Ve, Castro Verde, Messejana, Villa Florida, etc.

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Table with columns for station name, frequency, power, and signal strength. Includes stations like Khaudum, Gwangwa, Gwangwa, Kule, etc.

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Table with columns for station name, frequency, power, and signal strength. Includes stations like Eskdalemuir, RJOB, Obkirch, Bochum-Univers, etc.

BSEG	Bad Segeberg	60.88	24	eP	P	15 13 14.3	+1.5
BSEG		comp=Z,24nm,1.2s					
BSEG		comp=Z,24nm,0.9s,baz=224,slow=7.0					
BSEG		eL					
BSEG		comp=Z,354nm,19.8s					
BINY	Binghamton	61.03	319	P	IAMB	15 13 12.9	-1.3
BINY							
UPC	Upice	61.03	29	eS	S	15 21 36.1	+3.8
UPC		comp=Z,28nm,1.3s					
DPC	Dobruska-Polom	61.08	29	eS	AMS	15 14 40.0	
DPC		comp=Z,500nm,13.3s					
DPC		eS					
DPC		AMS					
DPC		AMS					
DPC	Dobruska-Polom	61.08	29	eP	P	15 13 14.7	+0.3
DPC		comp=Z,500nm,17.0s					
DPC		eS					
DPC		MLR					
KRLC	Kralicky	61.13	30	eP	P	15 13 16.2	+1.4
KRLC		comp=Z,500nm,17.0s					
KRLC		eP					
KRLC		MLR					
BZS	Buzias	61.15	36	iP	P	15 13 16.8	+1.9
BZS		comp=Z,600nm,15.7s					
BZS		eP					
BZS		P					
OSTC	Ostas	61.16	29	eS	AMS	15 13 16.2	+1.4
OSTC		comp=Z,600nm,15.7s					
OSTC		eS					
OSTC		AMS					
MAUC	Maruska	61.22	31	eP	P	15 13 16.2	+0.8
VYHS	Yhtne	61.22	32	eP	P	15 13 16.2	+0.8
VYHS		comp=Z,21nm,1.2s					
VYHS		eP					
RUE	Ruedersdorf	61.31	26	eP	P	15 13 17.9	+2.1
RUE		comp=Z,25nm,0.7s,baz=224,slow=7.0					
RUE		eP					
RUE		P					
MORC	Moravsky Berou	61.33	31	P	IAMB	15 13 16.5	+0.3
MORC		comp=Z,11nm,1.0s					
MORC		IAMB					
MORC	Moravsky Berou	61.33	31	eP	P	15 13 16.9	+0.8
MORC		comp=Z,11nm,1.0s					
MORC		eP					
MORC		P					
MORC	Moravsky Berou	61.33	31	iP	P	15 13 17.3	+1.2
MORC		comp=Z,11nm,1.0s					
MORC		iP					
MORC		P					
KSP	Ksiaz	61.39	29	eP	P	15 13 18.0	+1.6
KSP		comp=Z,21nm,1.2s					
KSP		eP					
KSP		P					
KSP	Ksiaz	61.39	29	eP	P	15 13 18.2	+1.8
KSP		comp=Z,21nm,1.2s					
KSP		eP					
KSP		P					
PSZ	Piszkesteto	61.46	33	iP	P	15 13 18.2	+1.1
PSZ		comp=Z,21nm,1.2s					
PSZ		iP					
PSZ		P					
PSZ	Piszkesteto	61.46	33	iP	P	15 13 18.4	+1.3
PSZ		comp=Z,21nm,1.2s					
PSZ		iP					
PSZ		P					
PSZ	Piszkesteto	61.46	33	eP	P	15 13 18.4	+1.3
PSZ		comp=Z,21nm,1.2s					
PSZ		eP					
PSZ		P					
PSZ	Surdurc	61.52	36	iP	P	15 13 18.6	+1.2
PSZ		comp=Z,21nm,1.2s					
PSZ		iP					
PSZ		P					
STEB	Steborice	61.55	30	eP	P	15 13 18.9	+1.4
STEB		comp=Z,21nm,1.2s					
STEB		eP					
STEB		P					
ALN	Alexandroupoli	61.63	43	P	IAMB	15 13 16.9	-1.4
ALN		comp=Z,24nm,1.3s					
ALN		IAMB					
ALN	Alexandroupoli	61.63	43	P	IAMB	15 13 16.9	-1.4
ALN		comp=Z,24nm,1.3s					
ALN		IAMB					
OKC	Ostrava-Krasne	61.68	31	eS	S	15 21 40.3	-0.2
OKC		comp=Z,600nm,17.2s					
OKC		eS					
OKC		AMS					
OKC		AMS					
LANS	Liptovska Anna	61.95	32	eP	P	15 13 22.3	+2.0
LANS		comp=Z,600nm,17.2s					
LANS		eP					
LANS		P					
LANS	Liptovska Anna	61.95	32	eP	P	15 13 22.3	+2.0
LANS		comp=Z,600nm,17.2s					
LANS		eP					
LANS		P					
LANS	Niedzica	62.55	32	eP	P	15 13 22.3	+2.0
LANS		comp=Z,600nm,17.2s					
LANS		eP					
LANS		P					
LANS	Niedzica	62.55	32	eP	P	15 13 22.3	+2.0
LANS		comp=Z,600nm,17.2s					
LANS		eP					
LANS		P					
LANS	Marisel-Cluj	62.60	36	iP	P	15 13 25.8	+1.1
LANS		comp=Z,21nm,1.2s					
LANS		iP					
LANS		P					
LANS	Ojcow	62.76	31	eP	P	15 13 27.3	+1.7
LANS		comp=Z,21nm,1.2s					
LANS		eP					
LANS		P					
LANS	Ojcow	62.76	31	eP	P	15 13 27.3	+1.7
LANS		comp=Z,21nm,1.2s					
LANS		eP					
LANS		P					
LANS	Arges	62.84	38	iP	P	15 13 28.3	+2.0
LANS		comp=Z,21nm,1.2s					
LANS		iP					
LANS		P					
LANS	Stebnicka Huta	63.05	32	eP	P	15 13 28.3	+0.7
LANS		comp=Z,21nm,1.2s					
LANS		eP					
LANS		P					
STHS	Stebnicka Huta	63.05	32	eP	P	15 13 28.3	+0.7
STHS		comp=Z,21nm,1.2s					
STHS		eP					
STHS		P					
VOIR	Voiron	63.12	38	iP	P	15 13 29.7	+1.4
VOIR		comp=Z,21nm,1.2s					
VOIR		iP					
VOIR		P					
VOIR	Voiron	63.12	38	iP	P	15 13 29.7	+1.4
VOIR		comp=Z,21nm,1.2s					
VOIR		iP					
VOIR		P					
KOLS	Kolonice sedl	63.34	33	eP	P	15 13 36.6	+7.1
KOLS		comp=Z,6.0nm,0.7s					
KOLS		eP					
KOLS		P					
KOLS	Kolonice sedl	63.34	33	eP	P	15 13 36.6	+7.0
KOLS		comp=Z,6.0nm,0.7s					
KOLS		eP					
KOLS		P					
BMR	Baia Mare	63.34	35	P	P	15 13 28.5	-1.1
BMR		comp=Z,21nm,1.2s					
BMR		P					
BMR	Schoffereville	63.48	335	P	P	15 13 27.3	-3.1
BMR		comp=Z,2.0nm,0.5s,baz=120,slow=5.6,SNR=6.2					
BMR		P					
SCHO	Schoffereville	63.48	335	P	P	15 13 27.3	-3.1
SCHO		comp=Z,2.0nm,0.5s,baz=120,slow=5.6,SNR=6.2					
SCHO		P					
SCHO		LR					
SCHO		comp=Z,392nm,19.0s,baz=136,slow=33					
SCHO		comp=Z,2.0nm,0.5s					
SCHO		LR					
DOPR	Dopca	63.59	37	iP	P	15 13 32.9	+1.6
DOPR		comp=Z,21nm,1.2s					
DOPR		iP					
DOPR		P					
MLR	Muntele Rosu	63.70	38	eP	P	15 13 30.6	-1.6
MLR		comp=Z,21nm,1.2s					
MLR		eP					
MLR		P					
MLR	Muntele Rosu	63.70	38	iP	P	15 13 33.8	+1.6
MLR		comp=Z,21nm,1.2s					
MLR		iP					
MLR		P					
OS3A	New Philadelphia	63.71	315	IAMB	IAMB	15 13 34.3	
OS3A		comp=Z,22nm,1.1s					
OS3A		IAMB					
OS3A	New Philadelphia	63.71	315	IAMB	IAMB	15 13 34.3	
OS3A		comp=Z,22nm,1.1s					
OS3A		IAMB					
OS3A		IAMB					
TKL	Tuckaleechee C	63.92	310	P	P	15 13 30.6	-3.0
TKL		comp=Z,9.8nm,0.8s,baz=148,slow=4.6,SNR=4.5					
TKL		LR					
TKL		LR					
TKL		comp=Z,546nm,21.6s,baz=113,slow=30					
TKL		comp=Z,3.8nm,0.8s					
BORG	Borgarna	64.01	2	LR	LR	15 36 14.5	
BORG		comp=Z,170nm,18.0s,baz=174,slow=31					
BORG		LR					
BORG	Turia	64.02	38	iP	P	15 13 35.8	+1.7
BORG		comp=Z,170nm,18.0s,baz=174,slow=31					
BORG		iP					
BORG		P					
TURR	Adamsville	64.10	315	IAMB	IAMB	15 13 36.8	
TURR		comp=Z,18nm,1.0s					
TURR		IAMB					
TURR	Adamsville	64.10	315	IAMB	IAMB	15 13 36.8	
TURR		comp=Z,18nm,1.0s					
TURR		IAMB					
P52A	Sadowa	64.12	314	IAMB	IAMB	15 13 37.2	
P52A		comp=Z,16nm,1.1s					
P52A		IAMB					
P52A	Sadowa	64.12	314	IAMB	IAMB	15 13 37.2	
P52A		comp=Z,16nm,1.1s					
P52A		IAMB					
SADO	Sadowa	64.26	321	LR	LR	15 35 04.7	
SADO		comp=Z,44nm,21.6s,baz=130,slow=30					
SADO		LR					
SADO	Plostinia	64.31	38	iP	P	15 13 36.7	+0.7
SADO		comp=Z,21nm,1.2s					
SADO		iP					
SADO		P					
SADO	Plostinia	64.31	38	iP	P	15 13 36.7	+0.7
SADO		comp=Z,21nm,1.2s					
SADO		iP					
SADO		P					
BURAR	Bucovina Array	64.31	36	iP	P	15 13 37.1	+1.1
BURAR		comp=Z,21nm,1.2s					
BURAR		iP					
BURAR		P					
BURAR	Bucovina Array	64.31	36	iP	P	15 13 37.2	+1.1
BURAR		comp=Z,21nm,1.2s					
BURAR		iP					
BURAR		P					
BURAR	Bucovina Array	64.31	36	iP	P	15 13 37.2	+1.1
BURAR		comp=Z,21nm,1.2s					
BURAR		iP					
BURAR		P					
BUR08	Bucovina Ar. S	64.31	36	IAMB	IAMB	15 13 49.7	
BUR08		comp=Z,12nm,1.1s					
BUR08		IAMB					
VRI	Vrincioia	64.36	38	eP	P	15 13 37.5	+1.1
VRI		comp=Z,21nm,1.2s					
VRI		eP					
VRI		P					
VRI	Vrincio						





Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like AAK Ala-Archa, KK31 Karatay Array, MKAR Makanchi Array, etc.

PRU 01 15:41:22.4, 51.52N, 16.06E, h0km, IPEC 01 15:41:20.3-0.2, 51.59N, 16.18E, h1km, ML1.7/5, Error ellipse: s-maj=1.8km s-min=1.4km az=55.0, Poland

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like KUP Ksiaz, KSP KSP, CHVC Chvalec, etc.

IDC 01 15:44:55.8, 1.6, 4.02S, 154.41E, h496km, 20km, mb3.4/18, mbmp4.2/19, Error ellipse: s-maj=15.9km s-min=8.7km az=101.0

ISC 01 15:44:54.2-0.7, 3.99S, 0.09/154.5E, 0.2, h476km, n19, r=12/22, mb3.8/18, North of Solomon Islands

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like PMG Port Moresby, DZM Mont Dzumac, WRA Warramunga Arr, etc.

NIED 01 15:45:51.5, 44.31N, 149.62E, h30km, MW4.0, Moment Tensor Solution. s3 Moment tensor: Scale 10^14Nm

Mn-3.47; Mn-3.18; Mn-6.66; Mn-6.62; Mn-2.25; Mn-3.71; Fault plane solution: M9.78000x10^14 NP1: 0.229, 0.0000, 0.836, 0.0000, 1.22, 0.0000, NP2: 0.229, 0.0000, 0.836, 0.0000, 1.22, 0.0000, SKHL 01 15:45:53.4, 0.5, 43.80N, 149.60E, h63km, 2km, mb3.9/3, IDC 01 15:45:56.4, 4.6, 4.4, 0.05N, 149.48E, h36km, 36km, mb3.6/11, mbmp3.7/14, ML2.3/3, MS3.5/2, Error ellipse: s-maj=27.9km s-min=21.4km az=99.4

ISC 01 15:45:56.7-0.9, 43.97N, 0.09/149.36E, 0.09, h38km, n27, r=0.98/23, mb3.9/11, East of Kuril Islands

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like KUR Kuril'sk, SHO Shikotan, YUK Yuzh-Kuril'sk, etc.

BEO 01 15:49:10.9, 0.7, 40.17N, 21.04E, h0km, 3km, ML2.8/10, TIR 01 15:49:14.7, 40.46N, 20.31E, h1km, 1km, M3.1/8, SKO 01 15:49:16.8, 40.43N, 20.96E, h1km, ML2.8, THE 01 15:49:16.9, 40.40N, 1.2, 1E, h3km, 1km, M2.6/19, MLh2.6/19

ATH 01 15:49:16.0, 40.45N, 20.96E, h7km, 2km, ML2.8/14, Manual Solution by A.Agalos First location: 2019/06/01 15:50:24, This location: 2019/06/01 16:17:26 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 2 km

ISC 01 15:49:15.0, 0.9, 40.47N, 0.01/20.90E, 0.02, h8km, 6km, n8, r=12/21, 2C-2D, Greece-Albania border region

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like NEST Nestorio, SKA Stephens Creek, MJAR Matsushiro Arr, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, ISC. Includes stations like IGT IGT, KEK Kerkira, TETR Tetraokmo, Epi, etc.

comp=N, 0.7nm, 0.6s

comp=N, 0.9nm, 0.6s

comp=N, 1.05nm, 0.7s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

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comp=N, 0.5nm, 0.8s

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comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

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comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

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comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s

comp=N, 0.5nm, 0.8s

comp=N, 1.0nm, 1.5s





1d 16h

2019 JUN

Table with columns: Station Name, Time, Status, Direction, and other parameters. Includes stations like KDI Kendari, MRSI Marisa, KMSI Cibinong, etc.

Table with columns: Station Name, Time, Status, Direction, and other parameters. Includes stations like TIA Taifan, ARPS Mount Arapiles, KSRS Korea Array, etc.

Table with columns: Station Name, Time, Status, Direction, and other parameters. Includes stations like N15K Kwethluk River, H16K Elim, G16K Koyuk River, etc.

M20K	Styx River	88.80	28	P	P	16 26 55.3	-0.2	PRP	baz=270 Porcupine Dome	92.34	25	P	P	16 27 11.8	-0.2	R31K	City Hall, Gus	97.57	31	P	P	16 27 35.9	+0.1		
Q20K	Shuyak Island	88.85	31	P	P	16 26 55.4	-0.2	PAX	baz=271 Paxson	92.41	27	IAMB	IAMB	16 27 14.1		M31M	Drury Creek, Y	97.58	27	P	P	16 27 36.0	+0.1		
C21K	Knifeflade Rid	88.97	21	P	P	16 26 55.4	-0.7	PAX	comp=Z,5.9nm,1.2s Paxson	92.41	27	P	P	16 27 12.2	-0.1	WHY	Whitehorse	97.63	29	P	P	16 27 35.8	-0.4		
B21K	Ikkipuk River	89.09	20	P	P	16 26 56.8	+0.3	J25K	Salcha River,	92.42	26	P	P	16 27 12.1	-0.2	SIT	Sitka	98.00	33	P	Pdf	16 27 38.2	+0.4		
G21K	Allakaket	89.13	23	IAMB	IAMB	16 26 59.5		C26K	Camden Bay	92.48	20	P	P	16 27 12.3	0.0	FARO	Faro, Yukon	98.05	27	P	Pdf	16 27 38.5	+0.5		
G21K	Allakaket	89.13	23	P	P	16 26 57.1	+0.3	HARP	HAARP	92.56	28	P	P	16 27 12.7	-0.2	R32K	Eaglecrest	98.23	31	P	Pdf	16 27 39.4	+0.6		
N20K	Mount Spurr	89.17	29	P	P	16 26 57.4	+0.2	RIDG	Independent Ri	92.67	26	IAMB	IAMB	16 27 14.8		S32K	Kiliseo	98.33	32	P	P	16 27 39.9	+0.2		
SPCR	Spurr Chakacha	89.17	29	P	P	16 26 57.4	+0.2	RIDG	Independent Ri	92.67	26	P	P	16 27 13.0	-0.5	A36M	Sachs Harbour	98.39	17	P	Pdf	16 27 39.9	+0.6		
E21K	Killik River	89.18	22	P	P	16 26 56.8	-0.3	BMAR	Mount Mountain	92.67	23	P	P	16 27 14.8	+1.4	P32M	Atlin	98.40	30	P	P	16 27 38.8	-0.8		
F21K	Alatna River	89.22	23	P	P	16 26 57.2	-0.1	F26K	Sheenjek River	92.83	22	P	P	16 27 13.8	-0.2	N32M	Quiet Lake	98.40	28	P	P	16 27 38.9	-0.7		
H21K	Melozitna Rive	89.33	24	IAMB	IAMB	16 27 00.6		N25K	Chiitna, Valde	92.84	29	P	P	16 27 14.2	-0.1	P33M	Teslin, Yukon	98.72	29	P	P	16 27 40.5	-0.5		
H21K	Melozitna Rive	89.33	24	P	P	16 26 57.8	0.0	BMRM	Brommer River	92.86	29	P	P	16 27 14.1	-0.3	MMPY	Sheldon Lake,	98.92	27	P	P	16 27 41.0	-0.9		
PPLA	Purkeypile	89.33	27	P	P	16 26 57.5	-0.6	C27K	Jago River	92.91	20	P	P	16 27 14.3	-0.1	Q32M	Nakina River	99.25	30	P	Pdf	16 27 42.4	-1.2		
CHUM	Lake Minchumin	89.37	26	P	P	16 26 57.6	-0.3	G26K	Porcupine Rive	93.00	23	P	P	16 27 14.9	0.0	U33K	Whale Pass	99.37	33	P	Pdf	16 27 42.6	-1.3		
CAST	Castle Rocks	89.43	27	P	P	16 26 58.2	-0.2	D20K	Dot Lake	93.02	26	IAMB	IAMB	16 27 16.8	0.2	CRAQ	Craig	99.49	34	P	Pdf	16 27 42.8	-1.6		
SKT	Skwentna	89.56	28	P	P	16 26 58.0	-1.0	SCRK	Sand Creek	93.05	26	P	P	16 27 14.8	-0.4	WRAG	Wrangell Island	99.73	33	P	Pdf	16 27 44.1	-1.4		
B22K	Teshepkuk Lake	89.59	20	P	P	16 26 58.1	-0.8	J26L	Joseph Creek	93.21	26	IAMB	IAMB	16 27 17.5		R33M	Jennings River	99.81	30	P	Pdf	16 27 44.3	-1.7		
I21K	Tanana	89.63	25	IAMB	IAMB	16 27 01.5		J26L	Joseph Creek	93.21	26	P	P	16 27 15.7	-0.3	S34M	Telegraph Cree	100.06	31	P	Pdf	16 27 45.6	-1.4		
I21K	Tanana	89.63	25	P	P	16 26 59.1	-0.1	I26K	Coal Creek Min	93.34	25	IAMB	IAMB	16 27 18.2		V35K	Ketchikan	100.36	34	P	Pdf	16 27 46.5	-1.9		
CAPN	Captain Cook N	89.65	29	P	P	16 26 59.3	0.0	I26K	Coal Creek Min	93.34	25	P	P	16 27 16.2	-0.3	T35M	Bob Quinn	100.74	32	P	Pdf	16 27 47.9	-2.2		
D22K	Ayikyak River	89.69	21	P	P	16 26 59.2	-0.3	L26K	Log Cabin Wild	93.37	27	P	P	16 27 16.5	-0.1	HFS	Hagfors	100.89	331	P	Pdf	16 27 49.1	-0.8		
F22K	John River	89.75	23	P	P	16 26 59.4	-0.3	M26K	Nabesna, AK	93.57	28	P	P	16 27 17.4	-0.2	SCHO	Schefferville	126.53	7	PKP	PKPpdf	16 33 05.2	+0.4		
BRSE	Bradley Lake S	89.78	30	P	P	16 26 59.6	-0.5	CRQE	Cirque	93.61	29	P	P	16 27 18.0	0.0	TEIG	Teigh	144.65	57	PKPdf	PKPpdf	16 33 39.2	0.0		
USA	Susitna One	89.90	29	P	P	16 26 58.2	-0.2	MCARA	McCarthy VSAT	93.61	29	P	P	16 27 17.7	0.0	PLTB	Pedras Alta	146.68	186	PKPbc	PKPbc	16 33 44.2	+0.7		
H22K	Ishlaltina Cre	89.94	24	P	P	16 27 00.2	-0.5	E27K	Coleen River	93.76	22	P	P	16 27 18.5	+0.2	LCO	Las Campanas	146.84	158	PKPbc	PKPbc	16 33 46.1	-0.1		
E22K	Anaktuvuk Pass	89.94	22	P	P	16 27 00.6	-0.1	G27K	Doyon Strip	93.85	23	P	P	16 27 19.2	+0.4	CPUP	Villa Florida	152.08	180	PKPbc	PKPbc	16 33 58.2	+0.4		
G22K	Bettles	89.96	23	P	P	16 27 00.8	0.0	K27K	Chicken	93.88	26	IAMB	IAMB	16 27 21.9		<p>BE0 01 16:17:20.8,0.6,40:27N:20.88E,h0km,ML2.8/10  TIR 01 16:17:22.4,40:46N:20.79E,h7km,1km,ML2.8/10  ATH 01 16:17:23.8,40:37N:20.90E,h8km,1km,ML2.8/15  Manual Solution by A.Agalos First location: 2019/06/01  16:18:25, This location: 2019/06/01 16:28:19 ML  Amplitudes are expressed in micrometers. All distances  are expressed in degrees Latitude uncertainty: 1 km;  Longitude uncertainty: 2 km  SKO 01 16:17:24.1,40:45N:20.87E,h9km,ML2.9  THE 01 16:17:26.1,40:N:2*2*1E,,h2km,1km,ML2.7/12,  MLh2.7/12</p>									
BPW	Bear Paw Mtn.	89.97	26	IAMB	IAMB	16 27 00.7	-0.2	D27M	Malcolm River	93.90	21	P	P	16 27 18.8	-0.2	<p>ISC 01 16:17:23.2:1.1,40:44N:0.02:20.85E:0.02,h1km,9km,  n77,,f105/106,1D,Greece-Albania border region</p>									
MLY	Manley	90.14	25	IAMB	IAMB	16 27 04.0		H27K	Steamboat Moun	93.95	24	IAMB	IAMB	16 27 22.0		Code	Station Name	Δ <sup>s</sup>	AZ <sup>s</sup>	Phase ID	Time Res	ISC			
MLY	Manley	90.14	25	P	P	16 27 01.3	-0.3	H27K	Steamboat Moun	93.95	24	P	P	16 27 19.1	-0.2	NEST	Nestorio	0.15	101	Op	Pg	h	m	s	Res
M22K	Willow	90.21	28	P	P	16 27 01.7	-0.3	I27K	Kandik River	93.96	24	P	P	16 27 19.3	0.0	NEST	Nestorio			Op	Pg	S			
TRF	Thorofare Moun	90.23	27	P	P	16 27 02.0	-0.3	L27K	Beaver Creek,	94.06	27	IAMB	IAMB	16 27 22.5		NEST	Nestorio			Op	Pg	S			
BRTR	Keskin Array B	90.35	310	P	P	16 27 01.7	-1.7	L27K	Beaver Creek,	94.06	27	P	P	16 27 19.9	+0.1	NEST	Nestorio			Op	Pg	S			
RC01	Rabbit Creek A	90.36	29	P	P	16 27 01.7	-1.0	BCAR	Beaver Creek A	94.08	27	P	P	16 27 21.1	+1.1	NEST	Nestorio			Op	Pg	S			
D23K	Nanushuk River	90.42	21	P	P	16 27 02.7	-0.2	M27K	Edge Creek, AK	94.09	28	P	P	16 27 19.9	-0.2	NEST	Nestorio			Op	Pg	S			
SEW	Seward	90.45	30	P	P	16 27 02.3	-0.8	ARCES	ARCES Array B	94.14	340	P	P	16 27 19.8	-0.3	NEST	Nestorio			Op	Pg	S			
COLD	Coldfoot	90.49	23	IAMB	IAMB	16 27 05.5		MESA	MESA	94.20	30	P	P	16 27 20.6	-0.2	NEST	Nestorio			Op	Pg	S			
COLD	Coldfoot	90.49	23	P	P	16 27 03.0	-0.2	CTG	China Glacier	94.45	29	P	P	16 27 21.4	-0.4	NEST	Nestorio	0.15	101	P	Pg	S			
C23K	Iklik River	90.50	20	P	P	16 27 02.9	-0.3	E28M	Babbage River	94.48	21	P	P	16 27 21.4	-0.3	NEST	Nestorio			Op	Pg	S			
G23K	Banana Creek	90.53	23	IAMB	IAMB	16 27 06.0		BVCY	Beaver Creek	94.56	28	P	P	16 27 21.9	-0.2	NEST	Nestorio	0.15	101	P	Pg	S			
G23K	Banana Creek	90.53	23	P	P	16 27 03.4	-0.1	I28M	Miner Creek	94.67	25	P	P	16 27 22.8	+0.1	KBN	Korca	0.19	345	Pg	Pg	S			
H23K	Yukon River	90.68	24	P	P	16 27 04.7	+0.5	D28M	Stokes Point	94.68	21	P	P	16 27 22.6	+0.1	KBN	Korca			Op	Pg	S			
I23K	Minto, Yukon-K	90.73	25	P	P	16 27 04.5	+0.2	FINES	FINES Array B	94.69	331	P	P	16 27 20.3	-2.4	KBN	Korca			Op	Pg	S			
E23K	Chandal	90.76	22	IAMB	IAMB	16 27 06.9		YUK3	Moose Creek	94.80	28	P	P	16 27 23.5	0.0	KBN	Korca			Op	Pg	S			
E23K	Chandal	90.76	22	P	P	16 27 04.7	+0.1	SPITS	Spitsbergen Ar	95.02	349	P	P	16 27 22.4	-1.6	KBN	Korca			Op	Pg	S			
TOLK	Took Lake Re	90.81	21	P	P	16 27 04.7	0.0	O28M	Mount Upton	95.03	29	IAMB	IAMB	16 27 27.7		KBN	Korca			Op	Pg	S			
NEA2	Nezana	90.83	26	P	P	16 27 04.9	0.0	O28M	Mount Upton	95.03	29	P	P	16 27 23.9	-0.7	OHR	Ohr	0.67	357	ePg	Lg				
MCK	McKinley	90.85	26	IAMB	IAMB	16 27 06.5		DAWY	Dawson	95.06	30	P	P	16 27 24.8	+0.4	OHR	Ohr			Op	Pg	S			
MCK	McKinley	90.85	26	P	P	16 27 05.0	0.0	PINM	Pinnacle	95.06	30	P	P	16 27 23.1	-1.4	OHR	Ohr			Op	Pg	S			
RND	Reindeer	90.88	27	IAMB	IAMB	16 27 05.9		E29M	Blow River	95.11	22	P	P	16 27 23.6	-0.9	KZN	Kozani	0.72	101	P	Pg	S			
KNK	Knik Glacier	90.99	29	P	P	16 27 06.0	+0.3	YUK8	Steele Glacier	95.18	29	P	P	16 27 25.0	-0.3	KZN	Kozani	0.72	101	P	Pg	S			
WAT1	Susitna Watana	91.00	27	P	P	16 27 05.4	-0.3	H29M	Whitestone	95.22	24	P	P	16 27 26.2	+1.1	KZN	Kozani			Op	Pg	S			
PWL	Port Wells	91.03	29	P	P	16 27 05.4	-0.5	G29M	Pine Creek	95.23	23	P	P	16 27 26.1	+0.8	KZN	Kozani			Op	Pg	S			
SML	Sawmill	91.06	28	P	P	16 27 06.0	-0.1	I29M	Ogilvie Camp,	95															





NEIC 01 17:55:43.4e.1.8, 14:14:51.0:06.71:17W.0:09,h31km,3km, mb4.6/76, Error ellipse: s-maj=12.8km s-min=9.4km az=85.0

VAO 01 17:55:44.8e.0.8, 14:25:57.0:93W,h0km,mb,0.4k IDC 01 17:55:46.9e.1.7, 14:48:57.1:12W,h67km,15km,mb3.8/11, mbmp4.0/17,MS3.3/12, Error ellipse: s-maj=20.3km s-min=10.7km az=48.0

ISC 01 17:55:43.6e.0.4, 14:46:55.0:05:71:19W.0:06,h35km,n148, r=135/139,mb4.5/43,MS3.4/8, Central Peru

Table with columns: Code, Station Name, Az, Az2, Phase, ID, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their parameters.

Table with columns: ECDSD, EROS Data Cent, 62.40 339, P, 18.06 01.6 -1.4, LSK, LSK, 33nm,0.5s, Sg, Sg, 18.10 33.3 -2.3, 18.10 38.5. Lists seismic events with station names and magnitudes.

TIR 01 18:10:21.4, 40:45N:20:75E, h4km,1km,ML3.2/6 BEO 01 18:10:21.5e.0.6, 40:31N:20:75E, h0km,ML2.9/3 ATH 01 18:10:22.8, 40:38N:20:85E, h8km,1km,ML3.1/15, Manual Solution by A. Agalos First location: 2019/06/01 18:11:26, This location: 2019/06/01 19:28:14 ML

Table with columns: Code, Station Name, Az, Az2, Phase, ID, ISC, Time, Res, h, m, s, ISC. Lists seismic stations and their parameters.

Table with columns: LSK, LSK, 33nm,0.5s, Sg, Sg, 18.10 33.3 -2.3, 18.10 38.5. Lists seismic events with station names and magnitudes.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, ISC, Time, Res, h, m, s, ISC. Lists seismic stations and their parameters.



Table with columns: WRA, Warramunga Arr, 13.55 161, Pn, Pn, 18 14 06.2 -3.8, etc.

NEIC 01 18:14:21.6:0.7, 19:17N:0:03:155:50W:0.02, h45km, 4km, Error ellipse: s-maj=4.6km s-min=2.3km az=163.0

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, etc.

HVO 01 18:20:50.6:1.3, 19:16N:0:04:155:48W:0.01, h42km, 3km, Error ellipse: s-maj=6.6km s-min=1.5km az=185.0

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, etc.

Table with columns: ALEP, Alea Permanent, 0.42 337, Pn, Pn, 18 20 59.7 +0.9, etc.

TIR 01 18:22:23.9, 40:45N:20:76E, h11km, 1km, M13/3/6

THE 01 18:22:24.9, 40:45N:20:76E, h11km, 1km, M13/3/6

ISC 01 18:22:24.5:1.0, 40:44N:0:02:20:79E:0.02, h6km, 6km, n81, c122/113, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, etc.

Table with columns: WTTA, Wattenberg, 9.50 319, ePn, Pn, 18 24 42.7 +0.8, etc.

DC 01 18:22:49.4:1.0, 36:24N:69:40E, h0km, mb3.6/1.1, mbmp3.7/1.6, ML3.3/5, MS2.8/4, Error ellipse: s-maj=18.5km s-min=17.3km az=47.0

ISC 01 18:22:56.2:0.9, 36:44N:0:08:69:25E:0.08, h48km, n30, c157/0.4, mb3.6/1.1, MS2.8/4, GC-20, Hindu Kush region

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, etc.

2019 JUN

Table with columns: Station Name, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like VAY Valandovo, THE Thessaloniki, etc.

Table with columns: Station Name, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MBW Mount Baker, JRO Jstn Ridge Ob, etc.

Mn=2.08±.14; Mr=1.5±.43; Best double couple: M=4.97000°x1015 N P1=0.226.00000°, S40.00000°, λ=71.00000°. NP2=0.21.00000°, S52.00000°, λ=106.00000°. Principal axes: T 4.7700, Plg6.0000°, Azm122.0000°; N 4.0000, Plg12.0000°, Azm30.0000°; P -5.1700, Plg76.0000°, Azm238.0000°; nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=35s. THE 01 18:30:15.0, 40°N, 1°21'E, h4km, 1km, M3.9/44, MLh3.9/44. SOF 01 18:30:20.6, 40°50'N-20°83'E, h10km, mb3.9. NAO 01 18:30:21.1, 40°93'N-0°08'21.22E, 0.17, h10km, 31km.

ISC 01 18:30:11.9, 0.9, 40.43N, 0.01, 20.79E, 0.02, h7km, 6km, n367, 1°63'415, mb4.1/33, MS3.0/10, 25C-9D, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBN Korca, NEST Nestorio, etc.

NEIC 01 18:26:47.4, 1.9, 47°60'N, 0°02', 122°80'W, 0.02, h26km, 6km, Error ellipse: s-maj=2.6km s-min=2.0km az=134.

SEA 01 18:26:47.9, 2.1, 47°59'N, 0°02', 122°75'W, 0.03, h24km, 4km, ML2.6/33, ML2.6/90(NEIC), Error ellipse: s-maj=2.8km s-min=2.6km az=56.0, Washington

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KIMR Kitsap County, KINR Kitsap County, etc.

Table with columns: Station Name, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like G04A Mulino, G04B Wollman Farm, etc.

SKO 01 18:30:07.5, 40°06'N-20°68'E, h0km, ML4.2. BEO 01 18:30:10.7, 0.6, 40°30'N-20°89'E, h0km, ML4.0/8. IDC 01 18:30:11.3, 0.6, 40°32'N-20°81'E, h0km, mb3.8/21, mb3.8/34, ML3.8/13, MS3.0/14, Error ellipse: s-maj=1.0km s-min=0.2km az=21.0. TIR 01 18:30:11.9, 40°42'N-20°79'E, h9km, 4km, M4.1/9. NEIC 01 18:30:11.6, 1.6, 40°41'N-0°05', 20°76'E, 0.06, h10km, 1km, mb4.3/17, Error ellipse: s-maj=8.5km s-min=7.5km az=314.0. PDG 01 18:30:11.7, 1.1, 40°46'N-20°73'E, h3km, 2km, MD4.3/2, ML4.2/12, Error ellipse: s-maj=1.2km s-min=1.5km az=0.0. ATH 01 18:30:12.4, 40°42'N-20°80'E, h6km, 2km, ML3.9/20, Manual Solution by A. Agalos. First location: 2019/06/01 18:31:09. This location: 2019/06/01 18:41:18 ML. Amplitudes are expressed in micrometers. All distances are expressed in degrees. Lat/lon uncertainty: 1 km; Longitude uncertainty: 1 km. MED\_RC 01 18:30:13.0, 0.2, 40°44'N-20°71'E, h12km, MW4.4/33, Moment Tensor Solution. Mantle waves: s33, c43; Duration: 1s0. Moment tensor: Scale 10^15Nm; Mn=-4.79±.32; M0=1.51±.19; M0=3.28±.22; Mn0.44±.54;

SRS	Serrai	2.24 71 P	Pn	18 30 50.4 +0.9	TPGR Topolog	7.16 49 P	Pn	18 32 00.6 +3.6	ASF	Jabal al Asfar	15.37 117 Pn	P	18 33 51.7 -2.5
SRS	Serrai	2.24 71 P	Pn	18 30 49.9 +0.4	CFR Caraliu	7.19 46 P	Pn	18 31 60.0 +2.5	EIL	Eilat	15.79 128 Pn	P	18 33 57.5 -1.2
MESG	Mesagne	2.24 275 P	Pn	18 30 49.6 +0.1	TRI Trieste	7.36 318	Pn	18 31 57.8 -2.1	KBZ	Khabaz	16.73 71 Pn	Pn	18 34 06.4 -0.4
PVY	Plav	2.25 344 P	Pn	18 30 50.8 +1.1	BORA Eskibeht	7.43 91	Pn	18 32 00.8 0.0	KBZ	Khabaz	16.73 71 Pn	Pn	18 34 06.4 -0.4
PVY	Plav	2.25 344 P	Pn	18 31 21.2 +0.1	SOKA Soko	7.51 328 Pn	Pn	18 32 02.2 +0.2	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
VLS	Valsamata	2.26 184 P	Pn	18 30 49.4 +0.3	PSZ Piszkesteto	7.51 355 Pn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
VLS	Valsamata	2.26 184 P	Pn	18 30 50.5 +0.7	PSZ Piszkesteto	7.51 355 Pn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
KKB	Krupnik	2.26 51 P	Pb	18 30 51.8 -1.4	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
KKB	Krupnik	2.26 51 P	Pb	18 30 50.8 +0.9	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
PAIG	Paliouri	2.27 102 P	Pn	18 30 50.5 +0.5	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
AXS	Araxos	2.28 168 P	Pn	18 30 53.1 -0.3	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
AXS	Araxos	2.28 168 P	Pn	18 30 52.2 -1.5	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
KALE	Kalitheia	2.29 152 P	Pb	18 30 52.2 -1.5	OBKA Obir	7.58 325 ePn	Pn	18 32 02.1 +0.1	OBNA	Obir	7.58 325 ePn	Pn	18 32 02.5 -0.4
PDG	Podgorica	2.30 331 P	Pn	18 30 51.6 +1.3	SRO Srobarova	7.59 347 eSN	Sn	18 33 34.4 +5.2	GNI Gari	18.27 83 Pn	Pn	18 34 24.2 -1.9	
PDG	Podgorica	2.30 331 P	Pn	18 30 52.0 +1.6	SABO M.te Sabotino	7.63 319	Pn	18 32 02.5 -1.1	GNI Gari	18.27 83 Pn	Pn	18 34 26.5 +0.2	
PDG	Podgorica	2.30 331 P	Pn	18 30 52.0 +1.6	CASP Castiglione de	7.80 291	Pn	18 32 04.8 -1.2	ESDC	Sonsec Array	18.95 276 Pn	Pn	18 34 34.6 +0.4
PDG	Podgorica	2.30 331 P	Pn	18 31 23.1 +0.6	ARSA Arzberg	7.80 333 Pn	Pn	18 32 08.0 +2.1	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PDG	Podgorica	2.30 331 P	Pn	18 30 51.7 +1.3	BURAR Bucočina Array	7.86 22 Pn	Pn	18 32 06.4 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PDG	Podgorica	2.30 331 P	Pn	18 30 50.9 +0.5	BURAR Bucočina Ar. S	7.88 22 Pn	Pn	18 32 06.1 -0.9	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PSDA	Pessada-Kefalo	2.32 184 P	Pn	18 30 52.3 -1.8	RONA Rosalia, Austr	7.95 338 ePn	Pn	18 32 09.6 +1.6	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PSDA	Pessada-Kefalo	2.32 184 P	Pn	18 30 51.2 +0.6	RONA Rosalia, Austr	7.95 338 ePn	Pn	18 32 09.6 +1.6	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BUM	Brajci-Budva	2.35 323 P	Pn	18 30 51.6 +0.5	RONA Rosalia, Austr	7.95 338 ePn	Pn	18 32 09.6 +1.6	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BUM	Brajci-Budva	2.35 323 P	Pn	18 31 23.5 -0.4	RONA Rosalia, Austr	7.95 338 ePn	Pn	18 32 09.6 +1.6	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
RTZL	Ratzakli, Kefa	2.35 180 P	Pb	18 30 53.4 -1.3	PRED Cavale del Predi	7.98 321	Pn	18 33 07.4 -1.0	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BOSS	Bošilegrad	2.42 31 P	ePn	18 30 52.6 +0.5	KEYC Kecoovo	8.05 359 ePn	Pn	18 32 12.7 +3.4	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BOSS	Bošilegrad	2.42 31 P	ePn	18 31 24.5 -1.5	MYKA Terra Mystica	8.08 322 Pn	Pn	18 32 08.8 -1.0	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BOSS	Bošilegrad	2.42 31 P	ePn	18 30 52.7 +0.6	YVHS Vyhne	8.18 351 eSN	Sn	18 32 14.2 +3.1	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
RLS	Riolos of Patr	2.43 167 P	Pn	18 30 52.9 +0.6	ZCCA Zocca	8.25 302 Pn	Pn	18 32 11.1 -1.0	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
OUR	Ouranopolis	2.44 91 P	Pn	18 30 52.3 +0.1	CONA Conrad Observa	8.29 336 Pn	Pn	18 32 14.2 +1.6	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
OUR	Ouranopolis	2.44 91 P	Pn	18 30 53.9 +1.3	TEOL Teolo	8.31 309	Pn	18 32 11.1 -1.7	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
LKR	Lokris	2.47 135 P	Pn	18 30 53.9 +1.3	MODS Modra-Piesok	8.33 344 ePn	Pn	18 32 17.3 +4.7	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KOKK	Kokkinochori,	2.48 80 P	Pn	18 30 53.1 +0.4	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KOKK	Kokkinochori,	2.48 80 P	Pn	18 30 53.6 +0.5	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BARS	Barje	2.50 18 ePn	Pn	18 30 53.7 +0.5	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BARS	Barje	2.50 18 ePn	Pn	18 30 55.5 -1.8	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
MMB	Musomishta	2.50 63 P	Pn	18 30 54.0 +0.8	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
MMB	Musomishta	2.50 63 P	Pn	18 30 55.8 +1.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BEY	Berane	2.53 345 P	Pn	18 31 27.9 -1.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
IVA	Berane	2.53 345 P	Pn	18 30 54.6 +1.0	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
CEME	Cevo	2.54 327 P	Pn	18 31 27.8 -1.5	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
CEME	Cevo	2.54 327 P	Pn	18 30 55.8 +1.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KOME	Kolasin	2.60 339 P	Pn	18 30 55.8 +1.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KOME	Kolasin	2.60 339 P	Pn	18 30 55.8 +0.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KLV	Kalavryta, Ach	2.61 156 P	Pn	18 30 55.5 +0.3	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
HCY	Herceg Novi	2.65 320 ePn	Pn	18 30 55.8 +0.7	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
HCY	Herceg Novi	2.65 320 ePn	Pn	18 31 30.7 -1.8	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
HCY	Herceg Novi	2.65 320 ePn	Pn	18 30 54.8 +1.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
AOA	Alonnisos	2.70 117 P	Pn	18 30 59.8 +0.8	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
SELS	Selova	2.80 5 P	Pn	18 30 59.8 +0.8	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PLNA	Plana	2.85 43 P	Pn	18 30 59.6 +1.6	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
VTS	Vitohsa	2.85 39 P	Pn	18 30 58.6 +0.5	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
VTS	Vitohsa	2.85 39 P	Pn	18 30 58.6 +0.1	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KAVA	Kavala	2.89 78 P	Pn	18 31 02.2 +2.6	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
KAVA	Kavala	2.89 78 P	Pn	18 31 02.3 -1.6	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
SJES	Sjenica	2.89 348 ePn	Pn	18 31 01.2 +2.6	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
SJES	Sjenica	2.89 348 ePn	Pn	18 30 59.1 +0.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
TREB	Trebjine	2.92 322 ePn	Pn	18 30 59.8 +0.1	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
AMT	Artemida-Makis	2.98 166 P	Pn	18 31 00.8 +0.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BRY	Bratogost	2.99 326 P	Pn	18 31 00.8 +0.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BRY	Bratogost	2.99 326 P	Pn	18 31 02.8 +2.1	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BRY	Bratogost	2.99 326 P	Pn	18 30 59.7 -0.3	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
THAS	Thassos island	3.00 85 P	Pn	18 31 04.0 +2.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PLE	Piljevia	3.08 341 P	Pn	18 31 41.5 +3.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PLE	Piljevia	3.08 341 P	Pn	18 31 03.4 +2.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
UPM	Unac-Piva	3.10 334 P	Pn	18 31 02.9 +1.3	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
UPM	Unac-Piva	3.10 334 P	Pn	18 31 41.8 +2.7	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
UPM	Unac-Piva	3.10 334 P	Pn	18 31 02.6 +1.1	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
MATE	Matera	3.12 275 P	Pn	18 31 02.5 +0.7	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
ZAPS	Kraljevo Serbi	3.13 1 P	ePn	18 31 03.2 +1.0	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
GOC	Zavoj	3.18 25 ePn	Pn	18 31 03.2 +1.0	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
IVAS	Ivanjica	3.18 32 P	ePn	18 31 06.4 +2.9	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
RZN	Rozhen	3.24 66 P	Pn	18 31 04.2 +0.5	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BOVS	Bovan	3.27 12 P	Pn	18 31 03.9 +0.2	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
BOVS	Bovan	3.27 12 P	Pn	18 31 09.3 -1.3	KBA Koelnbreinspre	8.55 323 ePn	Pn	18 32 16.0 -0.3	HFS	Hafagos	20.21 350 Pn	Pn	18 34 46.4 -0.8
PGB	Panagyurishte	3.29 50 P	Pn	18 31 04.3 -0.4									

Table with 4 columns: Station Name, Azimuth, Phase ID, Time Res. Includes stations like Pinedale Array, Lajitas Array, Alice Springs.

IDC 01 18:34:59.8:293.0,22.77N:158.20W,h0km,Error ellipse: s-maj=124.8km s-min=90.1km az=158.0,

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like HAWAII INFRASO, Wake Island, PETROPAVLOVSK.

ATH 01 18:35:00.6,40.45N:20.80E,h11km,1km,ML2.9/10, Manual Solution by A.Agalos First location: 2019/06/01

Amplitudes are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km;

TIR 01 18:35:00.1,40.45N:20.80E,h11km,1km,ML3.2/B THE 01 18:35:03.6,40.45N:21.1E,h3km,4km,ML2.6/11

ISC 01 18:35:00.6:0.9,40.45N:0.02:20.79E:0.02,h10km,7km,n44,c051/59,Greece-Albania border region

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Korca, Nestorio, Leskovik.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Nestorio, Leskovik, LSK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Pentalofofos, Kipourio, Kozani.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Igoumenitsa, Kastanea, Sarande.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Tetrakomo, Epi, Peshkopia.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Klokotos Trika, Tyrnos, Tyrnos.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Vay, Tsoukalades, LDK2.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like PUK, Bajram Curri, Podgorica.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NYDR, KNT, KNT.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like HORT, MAKRA, SCITE.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like EVGI, AGG, SOH, SOH, BCI.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like PDKG, WIL2, LTRZ.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Pentalofofos, Kipourio, Janina.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like JAN, Kozani, Ohrid.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Sarande, Igoumenitsa, Igoumenitsa.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like Kerkira, Kerkira, Kerkira.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like VLO, VLO, VLO.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TETR, TETR, TETR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TIR, TIR, TIR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TIR, TIR, TIR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ULC, ULC, ULC.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like PLG, PLG, PLG.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BCI, BCI, BCI.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like DRME, DRME, DRME.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like KKB, KKB, KKB.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like PDG, PDG, PDG.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BUM, BUM, BUM.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BOSS, BOSS, BOSS.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like CESH, WDD, RIV.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MURB, KARF, CEV.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BORA, TRI, SOKA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like SOKA, PSZ, OBKA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like OBKA, SABO, RONA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like PRED, KECS, KECS.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MYKA, MYKA, MYKA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like VYHS, VYHS, VYHS.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TEOL, KBA, KBA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like KBA, KOLS, CTI.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ABTA, ABTA, ABTA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MOA, MOA, MOA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MOA, MOA, MOA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like SQT, SQT, SQT.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like SQT, SQT, SQT.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BRTR, BRTR, BRTR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like FETA, FETA, FETA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like FETA, FETA, FETA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like GERES, GERES, GERES.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like FUORN, FUORN, FUORN.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MOTA, MOTA, MOTA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MOTA, MOTA, MOTA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like KEST, KEST, KEST.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like KHC, KHC, KHC.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like DAVOX, DAVOX, DAVOX.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like DAVOX, DAVOX, DAVOX.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TUE, TUE, TUE.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like DAVA, DAVA, DAVA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like SENIN, SENIN, SENIN.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like BFO, BFO, BFO.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ECH, ECH, ECH.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ESDC, ESDC, ESDC.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like HFS, HFS, HFS.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like FINES, FINES, FINES.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like FINES, FINES, FINES.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NC405, NC405, NC405.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NC405, NC405, NC405.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NOA, NOA, NOA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NC305, NC305, NC305.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NC305, NC305, NC305.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like EKA, EKA, EKA.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like NC204, NC204, NC204.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AB31, AB31, AB31.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ABKAR, ABKAR, ABKAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ABKAR, ABKAR, ABKAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like ARCES, ARCES, ARCES.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MKAR, MKAR, MKAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MKAR, MKAR, MKAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like MJAR, MJAR, MJAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TXAR, TXAR, TXAR.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like TXAR, TXAR, TXAR.

NINC 01 18:40:33.6:3.0,37.74N:1.81E,h0km,mb4.2,mpv3.9, Error ellipse: s-maj=23.9km s-min=18.5km az=160.0

IDC 01 18:40:34.9:5.6,37.56N:1.78E,h197km,38km,mb3.2/6, mbtmp3.8/12,MS3.5/1, Error ellipse: s-maj=62.2km

s-min=32.2km az=166.0

ISC 01 18:40:28.6:1.6,37.22N:0.1719E:0.1,h150km,n27, c180/32,mb3.5/6,5C-4D,Afghanistan-Tajikistan border region

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AML, UCH, EKS2.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with 4 columns: Code, Station Name, Azimuth, Phase ID, Time Res. Includes stations like AAK, AAK, AAK.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Karatay Array, Ulahol, Chumysh, etc.

TIR 01 18:40:50.5, 40.41N:20.73E, h6km, 1km, M3.3/7
THE 01 18:40:50.8, 40.40N:1.2 x 1.1E1, h4km, 1km, M2.9/12,

ISC 01 18:40:50.9, 1.0, 40.41N:0.02-20.73E, 0.03, h7km, 9km,
h25, c077/39, Greece-Albania border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Korca, Nestorio, Leskovik, etc.

IDC 01 18:50:08.1, 3.1, 12.28S:166.61E, h223km, 30km,
mb3.5/12, mbmp4.1/14, Error ellipse: s-maj=20.0km, s-min=10.7km az=15.0

NEIC 01 18:50:12.3, 2.8, 12.35S:0.1:166.9E, 0.2, h271km, 9km,
mb4.4/51, Error ellipse: s-maj=21.3km s-min=14.8km az=94.0

ISC 01 18:50:10.5, 0.5, 12.34S:0.06:166.69E, 0.10, h250km, n83,
c107/81, mb4.3/34, Santa Cruz Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Mont Dzumac, DZM, etc.

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Alice Springs, Buckleboe, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Korca, Nestorio, Leskovik, etc.

1d 18h

Table with columns for station name, frequency, power, and other technical details. Includes stations like KNT, KNT, KNT, HORT, HORT, HORT, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like HERR, VRSS, AYVA, PAOL, FRGS, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like ABTA, CTI, CTI, CTI, JAVC, MOA, MOA, etc.



KSP				pmax	pmax				
PVCC	comp=Z,6.0nm,0.9s								
PVCC	Panska Ves	10.98 339	AMS	AMS	18 57 30.0				
MANZ	comp=Z,2.0m,9.2s								
MANZ	Manzenberg	11.31 330	eP	Pn	18 52 59.9 +3.6				
BNI	Bardonecchia	11.31 299		Pn	18 52 55.6 -0.9				
BNI	Bardonecchia	11.31 299	P	Pn	18 52 55.6 -0.9				
CSS	Mathiatis	11.37 115	Ph	Pn	18 52 58.9 +1.7				
NKC	Novy Kostel	11.39 332	AMS	AMS	18 57 50.0				
SENIN	Lac Senin/Sane	11.42 306		Pn	18 52 56.3 -1.7				
GRA1	Grafenberg Arr	11.43 327	Ph	Pn	18 52 56.6 -1.3				
GRF	Grafenberg Arr	11.43 327	P	Pn	18 52 56.6 -1.3				
GRF	Grafenberg Arr	11.43 327	eL	L	18 58 00.2				
GRFO	Grafenberg	11.43 327	Ph	Pn	18 52 56.9 -1.0				
GRFO	Grafenberg	11.43 327	P	Pn	18 52 56.9 -1.0				
SLE	Schleitheim	11.44 314		Pn	18 53 03.6 +5.5				
SLE				pmax					
BRG	Berggiesshubel	11.46 338	P	Pn	18 53 00.3 +2.0				
BRG				pmax					
BRG	Berggiesshubel	11.46 338	eP	Pn	18 53 00.2 +2.0				
BRG				Amp	18 53 02.2				
TANN	Tannenbergestha	11.54 333	eP	Pn	18 53 02.3 +2.9				
STU	Stuttgart	11.70 319		Pn	18 52 59.6 -1.9				
STU	Stuttgart	11.70 319	P	Pn	18 52 59.6 -1.9				
BNN	Bunyan	11.76 93	Ph	Pn	18 53 02.2 -0.4				
KIEV	Kiev	11.85 27	P	Pn	18 53 03.4 -0.1				
KIEV	Kiev	11.85 27	P	Pn	18 53 03.4 -0.1				
AKASG	Malin Array Be	11.86 27	P	Pn	18 53 03.4 -0.3				
AKASG	comp=Z,0.2nm,20.6s,baz=211,slow=12,SNR=5.6			LR	18 58 38.7				
AKASG	Malin Array Be	11.86 27	iP	Pn	18 53 09.1 +5.4				
AKASG				pmax					
AKKB	Malin Array Si	11.86 27	Ph	Pn	18 53 03.6 0.0				
AKKB	Malin Array Si	11.86 27	P	Pn	18 53 08.5 +4.8				
BFO	Black Forest	11.86 316		Pn	18 53 01.4 -2.4				
BFO	Black Forest	11.86 316	eP	Pn	18 53 02.0 -1.8				
BFO	Black Forest	11.86 316	P	Pn	18 53 02.0 -1.8				
MOX	Moxa	12.03 331	P	Pn	18 53 10.9 +4.8				
MOX				pmax					
MOX	Moxa	12.03 331	eP	Pn	18 53 06.8 +0.6				
MOX				eL	18 58 54.9				
CLL	Collm	12.12 336	Ph	Pn	18 53 05.6 -1.8				
CLL	Collm	12.12 336	P	Pn	18 53 05.6 -1.8				
CLL	Collm	12.12 336	eP	Pn	18 53 07.0 -0.3				
CLL				esP	18 53 10.0				
CLL				ex	18 53 36.0				
CLL				ex	18 54 31.0				
CLL				ex	18 54 56.0				
CLL				ex	18 55 18.0				
CLL				AMS	18 57 00.0				
CLL	comp=N,600nm,19.2s			AMS	18 57 00.0				
CLL				AMS	18 58 00.0				
ECH	Echery	12.44 313		Pn	18 53 09.1 -2.5				
ECH	Echery	12.44 313	P	Pn	18 53 09.1 -2.5				
SSB	Saint Sauveur	12.82 298	P	Pn	18 53 15.9 -1.2				
SSB	Saint Sauveur	12.82 298	P	Pn	18 53 15.8 -1.2				
ARPR	Arapgir-MALATY	13.61 90	Ph	Pn	18 53 27.5 -0.4				
MMAI	Mount Meron Ar	13.89 118	Ph	Pn	18 53 32.6 +1.0				
LOR	Lormes	13.95 305	P	Pn	18 53 32.5 +0.2				
LOR				pmax					
BTNL	Ternell	14.39 320	dP	P	18 53 42.7 -2.9				
MNK	Minsk	14.87 16	iP	P	18 53 47.8 -2.9				
MNK	comp=E,2.0nm,0.7s			P	18 53 47.8 -2.9				
MNK	comp=N,10.0nm,0.8s			P	18 53 47.8 -2.9				
MNK	comp=Z,4.0nm,0.7s,baz=202			iP	18 53 47.8 -2.9				
MNK				iPPP	18 53 55.2 +2.5				
MNK				iPPP	18 53 59.5				
MNK				iS	18 56 34.2 +4.1				
MNK				iSS	18 56 48.0 -0.7				
MNK				iSSS	18 57 00.7				
MNK				iLO	18 58 11.4				
MNK				iLR	18 59 05.0				
MNK				iLRM	18 59 52.3				
MNK	comp=Z,134nm,11.4s			iLRM	18 59 57.5				
MNK	comp=E,119nm,12.7s			iLRM	19 00 06.5				
MNK	comp=N,71nm,11.4s			iP	18 53 47.8 -2.9				
MNK	Minsk	14.87 16	iP	Sn	18 56 34.1 +4.1				
MNK				pmax					
MNK	comp=E,2.0nm,0.7s			pmax					
MNK	comp=N,10.0nm,0.8s			pmax					
MNK	comp=Z,4.0nm,0.7s			pmax					
MNK				MLR					
DOU	Dourbes	14.88 316	dP	Pn	18 53 43.6 -1.4				
NACGM	Naroch	15.03 14	eP	P	18 53 50.6 -2.0				
GHAJ	Ghor Haditha	15.07 123	Ph	Pn	18 53 49.0 +1.4				
KOPD	Kop Dagi	15.11 85	Ph	Pn	18 53 49.3 +0.9				
PABE	Paberze	15.23 7	I	Iamb	18 53 48.7 -1.1				
PABE				Iamb	18 54 04.5				
CLF	Chambon-Foret	15.24 306	Ph	Pn	18 53 48.0 -1.8				
ASF	Jabal al Asfar	15.41 117	Ph	Pn	18 53 53.6 +1.4				
ASF	comp=Z,0.1nm,0.3s,baz=223,slow=3.8,SNR=3.3			P	18 53 58.8 +1.3				
EIL	Eilat	15.82 128	Ph	Pn	18 53 58.8 +1.3				
EIL	comp=Z,0.3nm,0.3s,baz=317,slow=10,SNR=5.4			P	18 53 57.2 -1.7				
MARD	Mardin	15.92 95	Ph	Pn	18 53 57.2 -1.7				
GURO	Guroymak-BITLI	16.55 90	Ph	Pn	18 54 05.5 -1.5				
SHA1	Shidzhatmaz	16.60 71	eP	Pn	18 54 11.3 +1.0				
KIV	Kislovodsk	16.64 71	Ph	Pn	18 54 06.2 -1.8				
KIV	Kislovodsk	16.64 71	P	Pn	18 54 12.5 +1.9				
KIV				pmax					
KVAR	Kislovodsk Arr	16.64 71	Ph	P	18 54 10.0 -0.7				
KVAR	baz=286,slow=18								
VORD	Divnogorie	16.66 45	eP	P	18 54 10.1 -0.5				
VORD				pmax					
VSR	Storozhevo	16.72 44	eP	P	18 54 12.2 +0.8				
VSR				pmax					
KBZ	Khabaz	16.77 71	Ph	Pn	18 54 11.5 -0.4				
KBZ	comp=Z,0.1nm,0.3s,baz=295,slow=15,SNR=4.8			LR	19 03 33.8				
KBZ	Khabaz	16.77 71	eP	P	18 54 13.5 +1.6				
KBZ				pmax					
OBN	Obninsk	18.07 30	P	P	18 54 27.9 +1.7				
OBN	Obninsk	18.07 30	P	P	18 54 25.6 -0.1				
OBN	comp=Z,3.0nm,0.3s,baz=184,slow=22,SNR=3.5			P	18 54 29.7 +3.5				
OBN	Obninsk	18.07 30	eP	pmax					
OBN				pmax					
OBN	comp=Z,7.0nm,0.8s			MLR					
OBN				MLR					
GNI	Garni	18.31 83	Ph	Pn	18 54 26.8 -2.2				
GNI	Garni	18.31 83	P	P	18 54 29.8 +0.6				
GNI	comp=Z,0.3nm,0.3s,baz=334,slow=11,SNR=6.1			LR	19 01 34.3				
GNI	comp=Z,157nm,19.3s,baz=250,slow=37								
GNI	comp=Z,2.1nm,0.5s			P	18 54 32.4 +3.2				
GNI				pmax					
GNI	comp=Z,18nm,1.5s								

VSU	Vasula	18.45	10cP	P	18 54 32.0 +1.7				
VSU				pmax					
ESDC	Sonsecsa Array	18.91 276	P	P	18 54 35.8 +0.2				
ESDC	comp=Z,0.1nm,0.3s,baz=73,slow=11,SNR=14			LR	19 01 45.7				
MOS	Moscow	18.94 30	eP	Pn	18 54 37.4 +1.1				
MOS				pmax					
PAB	San Pablo	19.22 276	P	P	18 54 34.2 -5.0				
PAB	San Pablo	19.22 276	P	P	18 54 34.2 -5.0				
MAK	Makhackkala	20.12 74	eP	P	18 54 44.6 -4.2				
MAK				eS	18 58 31.0 -4.5				
MAK	comp=Z,91nm,1.0s			MLR					
HFS	Hagfors	20.20 350	P	P	18 54 48.8 -0.8				
HFS	comp=Z,11nm,0.5s,baz=156,slow=11,SNR=38								
AKT	Akhty	20.39 78	eP	P	18 54 51.6 -0.3				
AKT				e	18 55 08.3				
AKT				eS	18 58 40.2 -0.9				
AKT				pmax					
AKT	comp=Z,5.0nm,0.9s			MLR					
KONO	Kongsberg	20.47 344	P	Iamb	18 54 49.1 -3.3				
KONO				P	18 55 21.0				
KONO	comp=Z,35nm,1.4s			P	18 54 49.1 -3.3				
KONO				pmax					
PBRG	Braganca	20.71 283	eP	Pn	18 54 57.7 +0.1				
PBRG				iP	18 55 06.8				
MVO	Moncorvo	21.00 281	eP	P	18 54 58.0 -0.4				
MVO				iamb	18 55 21.5				
NC602	NORSAR Array S	21.11 347	P	P	18 54 56.3 -3.0				
NC602				Iamb	18 55 03.6				
NORES	NORESS Array B	21.11 347	P	P	18 55 01.8 +2.5				
NORES	FINES Array B	21.29 7	P	P	18 54 58.2 -3.0				
NORES	FINES Array B	21.29 7	P	P	18 55 00.7 -0.6				
NORES	comp=Z,2.7nm,0.4s,baz=175,slow=11,SNR=21								
FAI1	FAI1	21.29 7	P	Iamb	18 54 58.6 -2.7				
FAI1				Iamb	18 55 21.1				
NAO01	NORSAR Array S	21.32 347	P	P	18 54 59.1 -2.5				
NAO01				Iamb	18 55 08.2				
NC405	NORSAR Array S	21.43 348	P	P	18 55 00.6 -2.3				
NB201	NORSAR Array S	21.44 347	P	P	18 55 01.0 -2.0				
NB201				Iamb	18 55 10.3				
NB2	NORSAR Subarra	21.45 347	P	P	18 55 02.5 -0.5				
NB2	comp=Z,120nm,20.5s,baz=160,slow=11								
NOA	NORSAR Array B	21.45 347	P	P	18 55 02.9 -0.1				
NOA	comp=Z,2.6nm,0.7s,baz=151,slow=9.8,SNR=16			LR	19 03 50.4				
MTE	Manteigas	21.50 279	eP	P	18 55 05.1 +1.3				
MTE				iamb	18 55 13.7				
NB000	NORSAR Array S	21.51 347	P	P	18 55 01.4 -2.3				
NB000				Iamb	18 55 09.5				</



IDC 01 19:16:40.6:1.8,4.92S-124:14E,h0km,mb3.1/2, mbtmp3.3/3,ML3.3/1, Error ellipse: s-maj=272.9km s-min=28.3km az=61.0, Banda Sea

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array.

IDC 01 19:23:00.4:10.0,31.05S-176:36W,h0km,mb3.5/2, mbtmp3.5/2, Error ellipse: s-maj=462.5km s-min=55.3km az=157.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include ASAR Alice Springs, WRA Warramunga Arr, FINES Fines Array B.

IDC 01 19:25:44.5:0.9,23.64N:143:92E,h0km,mb3.9/12, mbtmp3.8/15,ML3.4/3, Error ellipse: s-maj=29.4km s-min=17.3km az=80.0

NEIC 01 19:25:46.9:0.8,23.7N:0.1:143:8E:0.2,h10km,1km, mb4.5/12, Error ellipse: s-maj=26.3km s-min=17.3km az=7.0

ISC 01 19:25:49.2:0.7,23.73N:0.08:143:8E:0.1,h28km,n33, r1508/34,mb4.1/18, Volcano Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include JCJ Chichijima, MJAR Matsushiro Arr, MAJO Matsushiro.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include KS19 Wouju Array Si, CMAR Chiang Mai Arr, WBO Warramunga Arr.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include WRR Warramunga Arr, WRA Warramunga Arr, KULM Kulim.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include ASAR Alice Springs, ZALV Zalesovo Beam, MKAR Makanchi Array.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include K17K Iditarod, STKA Stephens Creek, H18K Honhosa River.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include J20K Nowinta River, ILAR Eielson Array, BVAR Borovoye Array.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include BRVK Borovoye, KKAR Karatay Array, ABKAR Akbulak array.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include NVAR Mina Array Bea, FINES Fines Array B, IDC 01 19:26:20.4:1.0,40:40N:20:67E,h0km,mb3.4/6.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include NEST Nestorio, NEST Nestorio, NEST Nestorio.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include NEST Nestorio, NEST Nestorio, NEST Nestorio.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include NEST Nestorio, NEST Nestorio, NEST Nestorio.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include KPRO Kipourio, KPRO Kipourio, OHR Ohrid.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include OHR Ohrid, KZAN Kozani, KZAN Kozani.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include OHR Ohrid, IGT Igoumenitsa, IGT Igoumenitsa.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include IGT Igoumenitsa, NASAS Naoussa, KTI Kastanea.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include KTI Kastanea, VLO Vlora, KEK Kerkira.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include KEK Kerkira, KEK Kerkira, KEK Kerkira.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TETR Tetraokomo, Epi, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include TIR Tirane, TIR Tirane, TIR Tirane.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include VAE Valguarnera, VAE Valguarnera, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include MORH Hungary, MORH Hungary, MORH Hungary.

TIR 01 19:31:18.2, 40:40N-20:76E, h2km,2km, ML3.0/0, Error ellipse: s-maj=0.6km s-min=1.1km az=0.0

SKO 01 19:31:20.3, 40:36N-20:88E, h4km, ML2.9

ATH 01 19:31:20.1, 40:38N-20:85E, h4km, Manual Solution by A. Andrzejewski

THE 01 19:31:22.0, 40:41N-20:80E, h0km,2km, M2.5/9, MLh2.5/9

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include NEST Nestorio, NEST Nestorio, NEST Nestorio.



MSHR	Mys Shultsa	21.33 336d	iP	P	20 18 39.9	-1.0
MSHR		comp=Z,117nm,0.7s		pmax		
PSTR	Posyet	21.52 335f	eP	P	20 18 42.2	-0.8
VLA	Vladivostok	21.54 338ce	P	P	20 18 42.3	-0.8
VLA		comp=Z,124nm,0.9s		pmax		
OZH	Quanzhou	22.06 279	P	P	20 18 49.4	+0.4
OZH		comp=Z,260nm,0.8s		pmax		
OZH		comp=Z,590nm,15.9s		LR		
TEY	Ternei	22.06 348f	eP	P	20 18 49.9	+1.1
TEY		comp=N,50nm,0.5s		pmax		
PATS	Pohnppei	22.33 135	P	P	20 18 51.5	-0.4
PATS		comp=Z,60nm,0.5s		IAMB		
PATS	Pohnppei	22.33 135	P	P	20 18 51.9	0.0
USA0B	Ussuriysk Arra	22.46 339	IAMB	IAMB	20 18 52.0	-1.1
USA0B		comp=Z,82nm,0.8s				
USA0B	Ussuriysk Arra	22.46 339d	iP	P	20 18 51.8	-1.3
USRK	Ussuriysk Ar.	22.46 339	P	P	20 18 51.3	-1.8
USRK		comp=Z,78nm,0.7s,baz=155,slow=11,SNR=99				
USRK		comp=Z,78nm,0.7s				
TGY	Tagaytay City	22.62 249	LR	LR	20 27	17.2
NJ2	Nanjing	22.75 297	iP	P	20 18 55.9	-0.4
NJ2		comp=Z,169nm,19.9s,baz=42,slow=36		pmax		
NJ2		comp=Z,75nm,0.7s		pmax		
NJ2		comp=Z,300nm,14.2s		LR		
NJ2		comp=Z,280nm,20.8s		LR		
NJ2		comp=Z,560nm,20.6s		LR		
H11N1	WAKE ISLAND Hy	22.76 95	T	T	20 42	49.9
H11N2	WAKE ISLAND Hy	22.77 95	T	T	20 43	04.3
H11N3	WAKE ISLAND Hy	22.78 95	T	T	20 42	42.9
H11S3	WAKE ISLAND Hy	22.90 98	T	T	20 42	50.5
H11S1	WAKE ISLAND Hy	22.91 98	T	T	20 42	51.1
H11S2	WAKE ISLAND Hy	22.91 98	T	T	20 42	51.4
DAV	Davao City (W)	23.20 228	LR	LR	20 26	09.0
YSS	Yuzhno-Sakhal	23.41 0	P	P	20 19 03.4	+0.9
YSS	Yuzhno-Sakhal	23.41 0	P	P	20 19 03.3	+0.8
YSS		comp=Z,160nm,1.1s		pmax		
YSS		comp=Z,500nm,8.5s		pmax		
YSS		comp=Z,100nm,0.8s		pmax		
YSS		comp=N,900nm,5.3s		smax		
YSS		comp=E,1,5m,9.5s		smax		
DL2	Dalian	23.62 315	P	P	20 19 01.4	-3.2
DL2		comp=E,100nm,0.7s		pmax		
DL2		comp=E,250nm,4.8s		pmax		
DL2		comp=E,450nm,22.7s		LR		
DL2		comp=E,400nm,20.8s		LR		
DL2		comp=E,670nm,24.9s		LR		
MDJ	Mudanjiang	23.66 336	P	IAMB	20 19 05.8	+1.0
MDJ		comp=Z,68nm,0.6s				
MDJ	Mudanjiang	23.66 336	P	P	20 19 05.3	+0.5
MDJ		comp=Z,54nm,1.2s		pmax		
MDJ		comp=Z,370nm,3.9s		LR		
MDJ		comp=Z,520nm,17.8s		LR		
MDJ		comp=Z,230nm,21.2s		LR		
MDJ		comp=Z,580nm,20.7s		LR		
SNY	Shenyang	24.28 323	iP	P	20 19 08.6	-1.9
SNY		comp=Z,170nm,0.8s		pmax		
SNY		comp=Z,480nm,3.5s		LR		
SNY		comp=Z,350nm,19.6s		LR		
SNY		comp=Z,350nm,18.1s		LR		
CN2	Changchun	24.75 329	P	P	20 19 14.6	-0.2
CN2		comp=Z,30nm,0.7s		pmax		
CN2		comp=Z,200nm,5.0s		pmax		
CN2		comp=Z,300nm,13.0s		LR		
CN2		comp=Z,300nm,13.0s		LR		
CN2		comp=Z,500nm,18.0s		LR		
BNX	BinXian	25.44 334	iP	P	20 19 20.6	-0.4
BNX		comp=Z,170nm,0.8s		pmax		
BNX		comp=Z,480nm,3.5s		LR		
BNX		comp=Z,350nm,19.6s		LR		
BNX		comp=Z,350nm,18.1s		LR		
TIA	Tai'an	25.49 306	P	P	20 19 21.0	-0.6
TIA		comp=Z,85nm,0.7s		pmax		
TIA		comp=Z,140nm,3.7s		LR		
TIA		comp=Z,450nm,18.2s		LR		
TIA		comp=Z,350nm,22.5s		LR		
UGL	Ulgorsk	25.54 359	eP	P	20 19 21.8	0.0
UGL		comp=Z,300nm,1.0s		pmax		
SGSI	Sangihe	25.77 223	P	P	20 19 23.2	-1.1
MANU	Manus Island	25.78 169	P	IAMB	20 19 23.6	-0.8
MANU		comp=Z,214nm,1.8s		LR		
JAY	Jayapura	25.93 185	LR	LR	20 27	38.1
JAY		comp=Z,396nm,21.9s,baz=14,slow=32				
JAY		comp=Z,396nm,21.9s		P		
WHN	Wuhan	26.20 292	iP	P	20 19 24.2	-1.5
WHN		comp=Z,210nm,13.1s		pmax		
WHN		comp=Z,370nm,22.4s		LR		
WHN		comp=Z,590nm,24.7s		LR		
WHN		comp=Z,630nm,1.6s		LR		

WHN		comp=Z,1,1um,20.9s		LR	LR	
WHN		comp=Z,1,1um,15.6s		LR	LR	
SWI	Sorong	26.66 206	P	P	20 19 31.6	-0.7
TNTI	Ternate	27.07 216	P	P	20 19 35.5	-0.5
TNTI	Ternate	27.07 216	P	P	20 19 35.3	-0.7
KLR	Kul'dur	27.11 344	LR	LR	20 31	25.0
KLR		comp=Z,321nm,18.8s,baz=156,slow=39		pmax		
CNSH	ChangSha	27.19 286	P	P	20 19 38.4	+1.4
CNSH		comp=Z,22nm,1.0s		pmax		
CNSH		comp=N,280nm,15.5s		LR	LR	
CNSH		comp=E,420nm,15.9s		LR	LR	
TYV	Tymovskoe	27.32 360	eP	P	20 19 39.6	+1.7
TYV		comp=Z,55nm,0.8s		pmax		
TYV		comp=Z,200nm,3.8s		smax		
TYV		comp=N,300nm,8.7s		smax		
GRNR	Gornyy	27.66 351	iP	P	20 19 42.4	+1.4
GRNR		comp=Z,40nm,0.9s		pmax		
GRNR		comp=E,130nm,15.0s		MLR	MLR	
HNS	HongShan	27.73 306	iP	P	20 19 41.0	-0.7
HNS		comp=Z,260nm,19.1s		pmax		
HNS		comp=E,120nm,0.8s		LR	LR	
HNS		comp=E,400nm,16.8s		LR	LR	
HNS		comp=E,330nm,17.1s		LR	LR	
HNS		comp=E,260nm,19.1s		LR	LR	
BJT	Baijiatuu	27.81 313	P	P	20 19 43.2	+0.8
BJT	Baijiatuu	27.81 313	P	P	20 19 43.2	+0.8
BJT		comp=Z,26nm,0.9s		pmax		
BJT	Beijing	27.82 313	P	P	20 19 44.1	+1.7
BJI		comp=Z,16nm,0.8s		pmax		
BJI		comp=Z,140nm,17.3s		LR	LR	
BJI		comp=Z,120nm,15.3s		LR	LR	
BJI		comp=Z,220nm,17.2s		LR	LR	
FAKI	Fak Fak	28.17 203	P	IAMB	20 19 44.9	-0.9
FAKI		comp=Z,54nm,0.8s				
FAKI	Fak Fak	28.17 203	P	P	20 19 44.9	-0.9
FAKI	Fak Fak	28.17 203	P	P	20 19 45.1	-0.7
LYN	LuoYang	28.57 300	P	P	20 19 49.6	+0.4
LYN		comp=Z,71nm,0.8s		pmax		
LYN		comp=Z,210nm,5.1s		LR	LR	
LYN		comp=Z,480nm,15.8s		LR	LR	
LYN		comp=Z,520nm,22.7s		LR	LR	
KMSI	Cibinong	29.16 221	P	P	20 19 55.0	+0.4
HEH	Heihe	29.27 340	eP	P	20 19 55.0	-0.2
HEH		comp=Z,1,1um,comp=Z,117nm,0.8s		pmax		
HEH		comp=Z,130nm,0.9s		LR	LR	
HEH		comp=Z,360nm,20.2s		LR	LR	
HEH		comp=Z,330nm,22.3s		LR	LR	
HEH		comp=Z,720nm,20.9s		LR	LR	
TIY	Taiyuan	29.53 306	P	P	20 19 59.5	+1.7
TIY		comp=Z,300nm,16.5s		LR	LR	
TIY		comp=Z,290nm,24.7s		LR	LR	
XLT	XiLinHaoTe	29.88 319	eP	P	20 20 00.2	-0.7
XLT		comp=Z,440nm,24.7s		pmax		
XLT		comp=Z,7,0nm,0.8s		pmax		
XLT		comp=Z,85nm,4.9s		LR	LR	
XLT		comp=Z,42nm,15.4s		LR	LR	
XLT		comp=Z,320nm,18.2s		LR	LR	
XLT		comp=Z,410nm,23.8s		LR	LR	
SANI	Sanana	30.18 215	P	P	20 20 01.8	-1.8
ENH	Enshi	30.34 290	P	P	20 20 04.8	-0.2
ENH	Enshi	30.34 290	P	P	20 20 04.7	-0.3
AAI	Ambon	30.51 210	P	P	20 20 07.0	+0.5
MRSI	Marisa	30.51 224	P	P	20 20 07.0	+0.4
BNDI	Bandanaira	30.53 206	P	P	20 20 05.8	-0.9
NLAI	Lamlea	30.63 212	P	P	20 20 07.1	-0.5
TOLZ	Toitoli	30.80 227	P	P	20 20 09.3	+0.2
TOLZ	Toitoli	30.80 227	P	P	20 20 09.0	-0.1
KKM	Kota Kinabalu	30.86 240	P	P	20 20 10.7	+0.9
QIZ	Qiongzhang	30.93 268	P	P	20 20 11.8	-1.5
QIZ		comp=Z,210nm,13.1s		LR	LR	
LWUI	Luwuk	31.17 221	P	IAMB	20 20 12.0	-0.4
LWUI		comp=Z,58nm,0.8s				
LWUI	Luwuk	31.17 221	P	P	20 20 12.0	-0.4
LWUI		comp=Z,3um,comp=Z,83nm,1.0s		pmax		
XAN	Xi'an	31.32 297	iP	P	20 20 13.5	-0.1
XAN		comp=Z,31nm,0.4s		pmax		
XAN		comp=Z,140nm,3.8s		pmax		
XAN		comp=Z,360nm,17.8s		LR	LR	
XAN		comp=Z,510nm,18.6s		LR	LR	
XAN		comp=Z,720nm,21.3s		LR	LR	
HHC	Hu-ho-hao-te	31.33 311	eP	P	20 20 13.9	+0.2
HHC		comp=Z,1,1um,20.9s		pmax		
HHC		comp=Z,1,1um,15.6s		pmax		

HHC		comp=Z,23nm,0.5s		SS	pmax	20 27 05.5	0.0
HHC		comp=Z,63nm,4.7s		pmax	pmax		
HHC		comp=Z,150nm,11.8s		LR	LR		
HHC		comp=Z,130nm,11.7s		LR	LR		
HHC		comp=Z,360nm,15.7s		LR	LR		
HIA	Hailar	31.45 331	P	IAMB	P	20 20 13.8	-0.7
HIA		comp=Z,22nm,0.6s					
HIA	Hailar	31.45 331	P	P	P	20 20 13.8	-0.7
HIA		comp=Z,22nm,0.6s		pmax			
PEA0B	Petrovavlovsk	31.68 17	P	P	20 20 17.6	+1.2	
PEA0B	Petrovavlovsk	31.68 17	deP	P	20 20 18.0	+1.5	
PETK	Petrovavlovsk	31.68 17	P	P	20 20 18.2	+1.7	
PETK	Petrovavlovsk	31.68 17	P	P	20 20 17.9	+1.4	
PETK		comp=Z,4.5nm,0.7s,baz=218,slow=7.7,SNR=9.6		ScP	ScP	20 26 40.5	-3.7
PETK		comp=Z,1.5nm,0.7s,baz=191,slow=5.6,SNR=4.4		LR	LR	20 32	15.4
PETK		comp=Z,1.07nm,22.0s,baz=204,slow=34		LR	LR		
PETK		comp=Z,4.5nm,0.7s		P	P	20 20 18.2	+1.7
PETK		comp=Z,679nm,comp=Z,42nm,1.0s		P	P	20 20 16.4	-1.2
PET	Petrovavlovsk	31.87 18	P	P	20 20 18.3	+0.2	
PET	Petrovavlovsk	31.87 18	eP	P	20 20 18.8	+0.7	
PET		comp=Z,18nm,1.4s		pmax	pmax	20 25 23.2	-0.6
PET		comp=Z,200nm,10.0s		MLR	MLR		
PET		comp=Z,200nm,11.0s		MLR	MLR		
MPSI	Mapaga	31.96 227	P	P	20 20 18.7	-0.6	
BTO	Batoutu	32.32 310	eP	P	20 20 23.9	+1.5	
BTO		comp=Z,23nm,0.8s		pmax	pmax	20 20 35.9	-2.0
BTO		comp=Z,270nm,9.7s		pmax	pmax	20 21 41.5	-0.4
BTO		comp=Z,760nm,19.5s		LR	LR	20 25 36.3	+5.0
BTO		comp=Z,550nm,23.4s		LR	LR	20 25 55.2	-2.8
BTO		comp=Z,760nm,23.5s		LR	LR		
ZEA	Zeya	32.38 343	eP	P	20 20 23.0	+0.4	
ZEA		comp=Z,200nm,0.7s		pmax	pmax	20 25 28.3	-3.5

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PZH	comp=Z,130nm,4.8s	LR	LR				
PZH	comp=Z,220nm,22.9s	LR	LR				
PZH	comp=Z,270nm,20.2s	LR	LR				
COEN	comp=Z,370nm,20.7s						
COEN	Coen	37.23 179	P	P	20 21 04.7	-0.1	
COEN	comp=Z,65nm,0.8s		IAmb	IAmb	20 21 06.7		
COEN	Coen	37.23 179	P	P	20 21 05.3	+0.6	
COEN	comp=Z,92nm,0.8s						
COEN	Coen	37.23 179	P	P	20 21 04.6	-0.1	
ULN	Ulaanbaatar	37.30 214	P	P	20 21 05.0	-0.5	
ULN	Ulaanbaatar	37.33 320	pP	pP	20 21 04.8	-0.7	
ULN	ULN						
ULN	comp=Z,4.0nm,0.5s						
ULN	Ulaanbaatar	37.33 320	P	P	20 21 04.7	-0.8	
KDU	Kakadu	37.34 197	P	P	20 21 04.8	-0.8	
KDU	comp=Z,33nm,0.8s						
KDU	Kakadu	37.34 197	P	P	20 21 04.4	-1.2	
DOS	Darwin Rock St	37.54 199	P	P	20 21 06.6	-0.7	
SOEI	Soe	37.66 211	P	P	20 21 07.4	-1.2	
SOEI	Soe	37.66 211	P	P	20 21 07.2	-1.4	
SOEI	Soe	37.66 211	P	P	20 21 06.7	-1.9	
SHEM	Shemys Is. Ala	37.68 31	LR	LR	20 33 26.5		
MMRI	Maumere	37.70 214	P	P	20 21 08.7	-0.1	
MMRI	Maumere	37.70 214	P	P	20 21 09.0	+0.2	
MMRI	Maumere	37.70 214	P	P	20 21 09.4	+0.6	
SONM	Songino Array	37.70 319	P	P	20 21 07.5	-1.2	
SONM	SONM		IAmb	IAmb	20 21 11.8		
SONM	Songino Array	37.70 319	P	P	20 21 07.2	-1.5	
SONM	comp=Z,1.8nm,0.7s,baz=131,slow=8.3,SNR=28		ScP	ScP	20 27 04.0	-2.1	
SONM	comp=Z,1.2nm,0.5s,baz=131,slow=4.0,SNR=20		LR	LR	20 37 18.1		
SONM	comp=Z,2.55nm,19.9s,baz=93,slow=37						
SONM	Songino Array	37.70 319	P	P	20 21 07.5	-1.2	
SONM	SONM		pmax	pmax			
MTN	Manton Dam	37.86 199	P	P	20 21 09.0	-1.1	
MTN	Manton Dam	37.86 199	P	P	20 21 09.5	-0.5	
MTN	comp=Z,109nm,0.8s						
MTN	Manton Dam	37.86 199	P	P	20 21 09.0	-1.1	
EDFI	Ende, Flores	38.09 215	P	P	20 21 11.4	-0.7	
STKI	Sintang	38.26 237	P	P	20 21 13.5	0.0	
BATI	Baumata	38.34 211	P	P	20 21 12.9	-1.3	
GTA	Gaotai	39.51 304	pP	pP	20 21 23.9	0.0	
GTA	Gaotai		pP	pP	20 21 42.1	+2.3	
GTA	Gaotai		ScP	ScP	20 22 55.8	+0.1	
GTA	Gaotai		S	S	20 27 11.5	-1.7	
GTA	Gaotai		ScS	ScS	20 27 17.6	-3.9	
GTA	Gaotai		pmax	pmax	20 31 22.8	-2.9	
GTA	comp=Z,18nm,0.9s		LR	LR			
GTA	comp=Z,390nm,18.9s		LR	LR			
GTA	comp=Z,270nm,18.2s		LR	LR			
GTA	comp=Z,340nm,18.9s		LR	LR			
YAK	Yakutsk	39.53 350	P	P	20 21 23.8	+0.2	
YAK	Yakutsk	39.53 350	LR	LR	20 38 37.4		
YAK	comp=Z,322nm,20.9s,baz=152,slow=37						
YAK	Yakutsk	39.53 350	eP	eP	20 21 23.6	0.0	
YAK	Yakutsk		pP	pP	20 21 35.4	-4.0	
YAK	Yakutsk		eS	eS	20 27 22.6	+1.7	
YAK	Yakutsk		eSS	eSS	20 27 41.0	-7.0	
YAK	Yakutsk		eSS	eSS	20 30 12.2	-5.5	
YAK	comp=Z,168nm,0.9s		pmax	pmax			
YAK	comp=E,9.0nm,0.8s		pmax	pmax			
YAK	comp=N,54nm,1.3s		smax	smax			
YAK	comp=E,29nm,1.4s		smax	smax			
YAK	comp=N,80nm,2.1s						
YAK	Yakutsk	39.53 350	pP	pP	20 21 23.9	+0.2	
YAK	Yakutsk	39.53 350	pP	pP	20 21 39.9	+0.5	
WSE	Waingapu	39.60 216	P	P	20 21 22.8	-1.9	
SEI	Seympchan	39.95 7/d	pP	pP	20 21 28.6	+1.5	
BOD	Bodaibo	40.03 336	eP	eP	20 21 27.5	-0.3	
BOD	BOD		pmax	pmax			
TNCH	TengChong	40.21 281	pP	pP	20 21 30.5	+0.6	
TNCH	TNCH		pP	pP	20 21 44.7	-1.2	
TNCH	TNCH		pP	pP	20 21 50.9	+1.2	
TNCH	TNCH		pP	pP	20 23 10.8	+3.1	
TNCH	TNCH		S	S	20 27 35.0	+2.7	
TNCH	TNCH		SS	SS	20 27 56.2	-3.3	
TNCH	TNCH		SS	SS	20 30 29.4	-3.2	
TNCH	TNCH		ScS	ScS	20 31 30.6	+0.2	
TNCH	comp=Z,29nm,0.7s		pmax	pmax			
TNCH	comp=Z,95nm,2.9s		LR	LR			
TNCH	comp=Z,250nm,14.4s		LR	LR			
TNCH	comp=Z,180nm,11.7s		LR	LR			
TNCH	comp=Z,310nm,37.0s						
PLAI	Plampang	40.34 220	P	P	20 21 30.4	-0.5	
PLAI	Plampang	40.34 220	P	P	20 21 29.3	-1.6	
ZAK	Zakamensk	40.68 321	eP	eP	20 21 31.5	-1.9	
ZAK	ZAK		pmax	pmax			
CHTO	Chiang Mai	40.99 272	P	P	20 21 36.7	+0.5	
CHTO	Chiang Mai	40.99 272	P	P	20 21 38.7		
CHTO	Chiang Mai	40.99 272	P	P	20 21 36.9	+0.7	
CHTO	Chiang Mai	40.99 272	pmax	pmax	20 21 36.7	+0.5	
IRK	Chiang Mai	40.99 272	P	P	20 21 36.7	+0.5	
IRK	Irkutsk	41.01 324	eP	eP	20 21 34.8	-1.1	
IRK	IRK		pmax	pmax			
CM31	Chiang Mai Arr	41.08 272	P	P	20 21 38.1	+1.1	
CM31	CM31		IAmb	IAmb	20 21 39.4		
CMAR	Chiang Mai Arr	41.08 272	P	P	20 21 37.7	+0.7	
CMAR	Chiang Mai Arr	41.08 272	P	P	20 21 37.7	-0.2	
CMAR	comp=Z,26nm,0.5s,baz=73,slow=8.8,SNR=282		ScP	ScP	20 27 17.5	-2.0	
CMAR	comp=Z,1.7nm,0.6s,baz=76,slow=3.8,SNR=8.1		LR	LR	20 37 08.6		
CMAR	Chiang Mai Arr	41.08 272	P	P	20 21 37.7	+0.7	
KNRA	Kununurra	41.26 201	P	P	20 21 37.6	-0.7	
KNRA	KNRA		IAmb	IAmb	20 21 38.7		
KNRA	comp=Z,101nm,1.2s						
KNRA	Kununurra	41.26 201	P	P	20 21 37.7	-0.6	
MTSU	Mount Surprise	41.40 178	P	P	20 21 40.4	+0.9	
JAGI	Jajag, Banyuw	42.31 225	P	P	20 21 46.9	-0.1	
JAGI	JAGI		IAmb	IAmb	20 21 47.9		
JAGI	comp=Z,105nm,0.8s						
JAGI	Jajag, Banyuw	42.31 225	P	P	20 21 46.9	-0.1	
JAGI	Jajag, Banyuw	42.31 225	P	P	20 21 46.0	-1.0	
MOY	Mondy	42.54 322	eP	eP	20 21 47.9	-0.7	
MOY	MOY		pmax	pmax			
GOMU	GeErMu	43.05 298	P	P	20 21 54.4	+1.1	
GOMU	GOMU		S	S	20 22 10.3	+1.0	
GOMU	GOMU		pP	pP	20 28 17.4	+2.9	
GOMU	GOMU		pmax	pmax			
GOMU	comp=Z,82nm,1.0s		pmax	pmax			

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GOMU	comp=Z,380nm,3.6s	LR	LR				
GOMU	comp=Z,280nm,20.8s	LR	LR				
GOMU	comp=Z,290nm,21.8s	LR	LR				
GOMU	comp=Z,460nm,22.4s	LR	LR				
MYKOM	Kota Tingi	43.40 246	P	P	20 21 58.0	+2.2	
CTAO	Charters Tower	43.45 175	P	P	20 21 55.8	-0.3	
CTAO	CTAO		IAmb	IAmb	20 21 57.6		
CTAO	comp=Z,119nm,1.1s						
CTAO	Charters Tower	43.45 175	P	P	20 21 55.9	-0.3	
CTAO	Charters Tower	43.45 175	P	P	20 21 55.8	-0.3	
CTAO	CTAO		pmax	pmax			
CTAO	comp=Z,119nm,1.1s						
CTAO	Charters Tower	43.45 175	P	P	20 21 56.1	0.0	
QIS	Mount Isa	43.89 184	P	P	20 21 59.2	-0.4	
QIS	comp=Z,59nm,0.8s						
WRAB	Tennant Creek	43.93 191	P	P	20 21 58.9	-0.7	
WRAB	Tennant Creek	43.93 191	P	P	20 21 59.4	-0.6	
WRAB	Tennant Creek	43.93 191	P	P	20 21 59.1	-0.9	
WRAB	WRAB		pmax	pmax			
WRAB	comp=Z,92nm,0.9s						
WRA	Warramunga Arr	43.94 191	P	P	20 21 58.8	-1.3	
WRA	comp=Z,76nm,0.6s,baz=10,slow=8.2,SNR=744		PcP	PcP	20 23 45.6	+0.6	
WRA	comp=Z,9.1nm,0.7s,baz=13,slow=3.7,SNR=2.1		ScP	ScP	20 27 28.7	-2.1	
WRA	comp=Z,4.9nm,0.7s,baz=7.7,slow=4.5,SNR=8.0		S	S	20 28 22.3	-4.6	
WRA	comp=Z,1.6nm,0.6s,baz=14,slow=15,SNR=5.2						
UGM	Wanagama	44.34 229	P	P	20 22 03.3	-0.1	
UGM	Wanagama	44.34 229	P	P	20 22 03.3	-0.1	
KULM	Kulim	44.37 253	P	P	20 22 04.6	+0.9	
KULM	Kulim	44.37 253	P	P	20 22 04.8	+1.1	
FITZ	Fitzroy Crossi	44.58 203	P	P	20 22 04.8	-0.3	
FITZ	FITZ		P	P	20 22 04.9	-0.2	
FITZ	comp=Z,26nm,1.1s						
FITZ	Fitzroy Crossi	44.58 203	P	P	20 22 04.4	-0.8	
SANVU	Saraoutou	45.50 146	P	P	20 22 11.4	-1.1	
LEM	Lembang	45.66 233	LR	LR	20 43 57.7		
BBJI	Gungbulang	46.07 232	P	P	20 22 16.6	-0.5	
LSA	Lhasa	46.23 289	P	P	20 22 20.6	+1.8	
LSA	LSA		IAmb	IAmb	20 22 22.3		
LSA	comp=Z,62nm,0.6s						
LSA	Lhasa	46.23 289	P	P	20 22 20.7	+1.8	
LSA	LSA		pmax	pmax			
LSA	comp=Z,32nm,0.6s						
LSA	Lhasa	46.23 289	P	P	20 22 20.6	+1.8	
LSA	LSA		pmax	pmax			
LSA	comp=Z,62nm,0.6s						
LSA	Lhasa	46.23 289	P	P			



RDOG	Red Dog Mine	55.36	22	P	P	20 23 26.0	-0.2
UZB	Uzynbulak	55.41	307	eP	pmax	20 23 27.3	+0.1
UZB	Uzynbulak	55.41	307	eP	P	20 23 27.3	+0.1
C17K	Delong Mountain	55.45	21	P	P	20 23 26.5	-0.4
KPKS	Kokpek	55.65	308	eP	P	20 23 29.0	+0.1
FORT	Forrest	55.65	308	eP	P	20 23 29.1	+0.1
FORT	Forrest	55.77	195	P	P	20 23 28.8	-0.8
FORT	Forrest	55.77	195	P	P	20 23 28.8	-0.8
FORT	Forrest	55.77	195	P	P	20 23 28.8	-0.8
N18K	Kilae Creek	55.84	31	P	IAMB	20 23 31.4	+1.6
N18K	Kilae Creek	55.84	31	P	IAMB	20 23 31.4	+1.6
N18K	Kilae Creek	55.84	31	P	P	20 23 29.3	-0.5
L18K	Granite Moun	55.84	30	P	P	20 23 29.0	-0.7
TDK	Taldyqorghan	55.84	309	eP	P	20 23 30.5	+0.4
TDK	Taldyqorghan	55.84	309	eP	P	20 23 30.5	+0.4
ZHN	Zhinishek	55.84	307	eP	P	20 23 30.4	+0.1
ZHN	Zhinishek	55.84	307	eP	P	20 23 30.4	+0.1
Q18K	Katmai Hardscr	55.85	34	P	P	20 23 29.2	-0.9
SATY	Saty	55.86	307	eP	pmax	20 23 30.5	+0.1
SATY	Saty	55.86	307	eP	P	20 23 30.6	+0.1
P18K	Big Mountain,	55.88	33	P	P	20 23 29.3	-0.9
PRZ	Przheval'sk	55.88	306	P	P	20 23 32.2	+1.5
PRZ	Przheval'sk	55.88	306	P	P	20 23 32.2	+1.5
KURK	Kurchatov	55.89	316	P	P	20 23 29.7	-0.6
KURK	Kurchatov	55.89	316	P	P	20 23 29.9	-0.4
KURK	Kurchatov	55.89	316	P	P	20 31 10.0	-2.7
E18K	Tukpahlearkic	55.91	23	P	P	20 23 30.8	+0.6
SII	Sitkinak Islan	55.93	37	P	P	20 23 29.8	-0.7
KURBB	Kurchatov Arra	55.94	316	P	P	20 23 29.9	-0.8
KURBB	Kurchatov Arra	55.94	316	P	P	20 31 10.0	-3.4
KURBB	Kurchatov Arra	55.94	316	P	P	20 31 10.0	-3.4
R18K	Karluk	55.95	35	P	P	20 23 29.4	-1.2
F18K	Selavik	55.96	24	P	P	20 23 29.8	-0.7
H18K	Honhosa River	55.97	26	P	P	20 23 30.3	-0.3
O18K	Koktuh Hills	55.99	33	P	P	20 23 30.6	-0.3
M18K	Stony River	56.05	31	P	P	20 23 31.0	-0.3
G18K	Tagagawik	56.09	25	P	P	20 23 31.3	-0.3
J18K	Innoko River	56.16	28	P	P	20 23 31.3	-0.7
NR1K	Noril'sk	56.17	339	eP	P	20 23 32.1	+0.1
NR1K	Noril'sk	56.17	339	eP	P	20 23 32.3	+0.2
NR1K	Noril'sk	56.17	339	eP	P	20 31 15.6	-0.4
NR1K	Noril'sk	56.17	339	eP	P	20 49 50.2	
NR1K	Noril'sk	56.17	339	eP	P	20 23 32.0	0.0
C18K	Utukok River	56.18	21	P	P	20 23 31.8	-0.4
ARXS	Arharly	56.26	308	eP	P	20 23 33.4	+0.2
B18K	Kokolik River	56.28	21	P	P	20 23 32.0	-0.7
TTA	Tatalina	56.32	29	P	P	20 23 31.6	-1.7
BBOO	Buckleboo	56.35	187	P	IAMB	20 23 33.0	-0.7
BBOO	Buckleboo	56.35	187	P	IAMB	20 23 34.0	
BBOO	Buckleboo	56.35	187	P	P	20 23 32.6	-1.1
BBOO	Buckleboo	56.35	187	P	P	20 23 32.9	-0.8
TARG	Taragay, Kyrgy	56.35	305	P	IAMB	20 23 35.9	+1.6
TARG	Taragay, Kyrgy	56.35	305	P	pmax	20 23 35.9	+1.6
GCSA	Galena City Sc	56.45	27	P	P	20 23 33.3	-0.7
O19K	Port Alsworth	56.49	32	P	P	20 23 33.7	-0.8
OHAK	Old Harbor	56.51	36	P	P	20 23 33.4	-1.2
N19K	Bonanza Creek	56.54	31	P	P	20 23 33.3	-1.6
Q19K	Cape Douglas,	56.60	34	P	P	20 23 33.6	-1.7
L19K	White Mountain	56.66	30	P	P	20 23 34.2	-1.5
HTT	Hallett	56.73	184	P	P	20 23 36.0	-0.5
HTT	Hallett	56.73	184	P	P	20 23 35.8	-0.6
F19K	Shalerucik Mo	56.74	24	P	P	20 23 34.9	-1.2
J19K	Pooman	56.77	28	P	P	20 23 35.2	-1.2
G19K	Purcell Moun	56.78	25	P	P	20 23 34.9	-1.6
M19K	Big River Lodg	56.81	30	P	P	20 23 36.6	-0.1
H19K	Roundabout Mou	56.85	26	P	P	20 23 37.6	+0.7
MDOK	Medeo	56.85	307	eP	P	20 23 37.6	+0.1
MDOK	Medeo	56.85	307	eP	P	20 23 37.6	+0.1
A19K	Wainwright	56.86	20	P	P	20 23 37.5	+0.7
C19K	Lookout Ridge	56.90	21	P	P	20 23 37.8	+0.5
P19K	Oil Pt	56.93	33	P	P	20 23 37.2	-0.4
TNSS	Tian-Shan	56.93	307	eP	P	20 23 38.2	-0.2
TNSS	Tian-Shan	56.93	307	eP	P	20 23 38.3	-0.2
AAA	Alma-Ata	56.95	307	eP	P	20 23 38.3	+0.2
AAA	Alma-Ata	56.95	307	eP	P	20 23 38.3	+0.2
KDAK	Kodiak Island	56.97	35	P	IAMB	20 24 04.8	
KDAK	Kodiak Island	56.97	35	P	LR	20 45 13.4	
KDAK	Kodiak Island	56.97	35	P	pmax	20 23 39.1	+1.2
KDAK	Kodiak Island	56.97	35	P	P	20 23 37.8	-0.1
E19K	Redstone River	57.14	23	P	P	20 23 39.5	+0.5
L19K	Farewell, AK	57.17	30	P	P	20 23 40.2	+0.9
D20K	Kuna River	57.17	22	P	P	20 23 39.2	-0.1
Q20K	Shuyak Island	57.19	34	P	P	20 23 39.9	+0.5
COCO	West Island	57.21	237	P	P	20 23 40.7	+0.6
COCO	West Island	57.21	237	P	pmax	20 23 41.0	+0.9
COCO	West Island	57.21	237	P	pmax	20 23 41.0	+0.9
HMH	Humu'ula Sheep	57.22	81	P	P	20 23 41.9	+1.3
K20K	Telida	57.28	29	P	P	20 23 40.5	+0.5
K20K	Telida	57.28	29	P	P	20 23 40.5	+0.5
O20K	Slope Mountain	57.31	33	P	P	20 23 39.9	-0.5
KUU	Kurty	57.34	308	eP	P	20 23 41.1	+0.3
KUU	Kurty	57.34	308	eP	P	20 23 41.1	+0.3
M20K	Styx River	57.39	30	P	P	20 23 41.2	+0.2

J20K	Novinta River	57.44	28	P	P	20 23 41.6	+0.5
SYDH	Sydney Hard Ro	57.45	172	P	P	20 23 41.9	+0.5
I20K	Naagheendee	57.45	27	P	IAMB	20 23 43.4	+2.3
I20K	Naagheendee	57.45	27	P	P	20 23 41.8	+0.7
H20K	Anotlaaga Mo	57.47	26	P	P	20 23 41.7	+0.4
ULHL	Ulhal	57.49	306	P	P	20 23 43.9	+1.8
F20K	Avart Lake	57.57	24	P	P	20 23 42.3	+0.3
BOOM	Boomsokye usch	57.70	306	P	P	20 23 45.0	+1.4
BOOM	Boomsokye usch	57.70	306	P	pmax	20 23 45.0	+1.4
N20K	Mount Spurr	57.70	31	P	P	20 23 43.5	+0.5
SPCR	Spurr Chakacha	57.70	31	P	P	20 23 43.6	+0.6
HOM	Hotzer	57.73	33	P	P	20 23 43.8	+0.6
D20K	Etivluk River	57.77	22	P	P	20 23 44.2	+0.9
E20K	Nigu River	57.77	23	P	P	20 23 43.7	+0.2
KSH	Kashi	57.90	303	P	sP	20 23 48.8	+3.9
KSH	Kashi	57.90	303	P	sP	20 24 11.2	+2.2
KSH	Kashi	57.90	303	P	sS	20 31 46.2	+6.3
KSH	Kashi	57.90	303	P	sS	20 33 29.7	+1.2
KSH	Kashi	57.90	303	P	pmax	20 23 30.5	+0.1
KSH	Kashi	57.90	303	P	LR	20 23 32.2	+1.5
KSH	Kashi	57.90	303	P	LR	20 23 32.2	+1.5
KSH	Kashi	57.90	303	P	LR	20 23 32.2	+1.5
CNPM	China Poot	57.91	33	P	IAMB	20 23 45.0	+0.5
CNPM	China Poot	57.91	33	P	IAMB	20 24 09.5	
TKM2	Tokmak 2	57.93	307	P	P	20 23 45.9	+0.7
STLK	Strandine Lak	57.93	31	P	P	20 23 45.8	+1.1
B20K	Meade River	58.02	21	P	P	20 23 46.0	+1.0
PPLA	Purkeypile	58.02	29	P	P	20 23 45.5	+0.1
KMBL	Kambalada	58.09	201	P	P	20 23 45.1	-1.0
KMBL	Kambalada	58.09	201	P	P	20 23 45.1	-1.0
SKT	Skwentna	58.16	30	P	IAMB	20 23 46.9	+0.7
SKT	Skwentna	58.16	30	P	IAMB	20 24 11.0	
SKT	Skwentna	58.16	30	P	P	20 23 45.6	-0.6
CHUM	Lake Minchum	58.16	28	P	P	20 23 45.9	-0.3
CAST	Castle Rocks	58.17	29	P	P	20 23 46.3	0.0
BRSE	Bradley Lake S	58.19	33	P	P	20 23 46.2	-0.3
MORW	Morawa	58.24	208	P	P	20 23 46.7	-0.4
MORW	Morawa	58.24	208	P	P	20 23 46.4	-0.7
MORW	Morawa	58.24	208	P	P	20 23 46.5	-0.6
G21K	Allakaket	58.27	25	P	P	20 23 47.7	-0.2
H21K	Melozitina	58.34	26	P	P	20 23 47.5	+0.1
KBK	Karagaybulak	58.42	307	P	P	20 23 50.0	+1.4
SUA	Susitna One	58.44	31	P	IAMB	20 23 49.9	+1.6
SUA	Susitna One	58.44	31	P	IAMB	20 24 19.1	
SUA	Susitna One	58.44	31	P	P	20 23 48.5	+0.2
F21K	Alatna River	58.46	24	P	P	20 23 48.6	+0.3
CH1K	Kniefelade Rid	58.53	22	P	P	20 23 49.0	+0.3
C2M	Chumysh	58.54	307	P	P	20 23 50.4	+1.2
I21K	Tanana	58.57	27	P	P	20 23 49.0	0.0
SGDS	Sogdina	58.60	308	eP	P	20 23 50.0	+0.3
E21K	Killik River	58.61	23	P	P	20 23 49.4	+0.1
FRU1	Bisheek	58.64	307	P	P	20 23 51.5	+1.5
FRU1	Bisheek	58.64	307	P	pmax	20 23 51.5	+1.5
FRU1	Bisheek	58.64	307	P	pmax	20 23 51.5	+1.5
USP	Ospenovka	58.71	307	P	P	20 23 51.3	+0.9
B21K	Ikpikpuk River	58.73	21	P	P	20 23 49.9	-0.1
AAK	Ala-Archa	58.76	307	P	P	20 23 52.6	+1.8
AAK	Ala-Archa	58.76	307	P	P	20 23 51.8	+0.9
AAK	Ala-Archa	58.76	307	P	S	20 31 49.4	-1.6
AAK	Ala-Archa	58.76	307	P	LR	20 51 44.1	
AAK	Ala-Archa	58.76	307	P	pmax	20 23 51.7	+0.9
AAK	Ala-Archa	58.76	307	P	iP	20 23 51.8	+0.9
UCH	Uchter	58.77	306	P	P	20 23 53.9	+2.6
BPAW	Bear Paw Mtn.	58.78	28	P	P	20 23 50.8	+0.4
M22K	Willow	58.78	31	P	P	20 23 50.4	-0.1
CAN	Canberra	58.80	174	P	P	20 23 51.0	+0.1
CAN	Canberra	58.80	174	P	P	20 23 51.1	+0.1
CAN	Canberra	58.80	174	P	P	20 23 50.9	0.0
CAN	Canberra	58.80	174	P	pmax	20 23 51.0	+0.1
CAN	Canberra	58.80	174	P	pmax	20 23 50.4	-0.5
CUT	Chulitna	58.81	30	P	P	20 23 50.9	+0.3
CNB	Canberra Magne	58.83	174	P	P	20 23 51.1	0.0
RC01	Rabbit Creek A	58.87	32	P	P	20 23 51.2	+0.1
SEW	Seward	58.88	33	P	P	20 23 51.6	+0.4
BTLS	Baital	58.93	310	eP	P	20 23 52.0	+0.2
BTLS	Baital	58.93	310	eP	P	20 23 52.1	+0.2
TRF	Thorafore Moun	58.97	29	P	P	20 23 52.4	+0.4
H22K	Ishaltina Cre	58.97	26	P	P	20 23 52.9	+1.1
F22K	John River	59.02	24	P	P	20	

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Table with columns: Call sign, Name, Frequency, Mode, Power, and other details. Includes stations like BMRM, N25K, GEXS, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other details. Includes stations like OUZ, O30N, S31K, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other details. Includes stations like LTZ, KHZ, KHZ, etc.



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Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Busby, Falmout, Sonseca Array, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like South Grapevine, Greenwater Val, Gold Mountain, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like La Lucha 2, Tortugero, Acopya, etc.

SNET 01 20:14:55.1±0.9, 13.19N, 89.48W, h63km, ML3.1

NEIC 01 20:27:40.1±2.1, 37.261N, 0.008E, 115.03W, 0.02, h5km, 1km, Error ellipse: s-maj=3.0km s-min=2.3km

NEIC 01 20:52:11.6±1.4, 37.26N, 0.011E, 115.02W, 0.01, h5km, 1km, Error ellipse: s-maj=2.7km s-min=2.0km az=344.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JAYA, LFRS, COEG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GMN, Q12A, GRAC, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PRN, S11A, S11A, etc.

NEIC 01 20:26:08.1±2.1, 37.26N, 0.011E, 115.01W, 0.02, h5km, 1km, Error ellipse: s-maj=2.9km s-min=2.3km az=344.0

NEIC 01 20:27:40.1±2.1, 37.261N, 0.008E, 115.03W, 0.02, h5km, 1km, Error ellipse: s-maj=3.0km s-min=2.3km

NEIC 01 21:08:51.0±1.9, 37.24N, 0.011E, 114.97W, 0.01, h5km, 1km, Error ellipse: s-maj=3.0km s-min=2.2km az=347.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PRN, S11A, S11A, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like NICO, COLC, COLC, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PRN, S11A, S11A, etc.

NOU 01 21:10:08.0,37:50S:176:46E,h197km,MLV3.8/13,North Island, New Zealand
WEL 01 21:10:09.7,1:1,37:57:17.7E:1,h186km,10km,M3.1/12,MLV3.1/12,Error ellipse: s-maj=9.2km s-min=6.2km az=28.7,confirmed

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various stations like TOZ Tahuroa Road, URZ Urewera, MUGZ Murupara, etc.

NEIC 01 21:22:51.9,1.9,26:18N:0:08:66.62W:0:1,h10km,1km,mb4.2/10,Error ellipse: s-maj=12.9km s-min=6.4km az=359.0

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations for NEIC 01 21:22:51.9,2:0,26:16N:0:08:66.6W:0:1,h10km,n47, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like UCCT U. Connecticut, KSCT Kent School, Y52A Libur, etc.

ISN 01 21:23:12.2,0.2,7.33:63N:45:77E,h6km,14km,ML2.6
TEH 01 21:23:13.3,33:64N:45:82E,h10km,85km
ISC 01 21:23:13.0,3,33:61N:45:81E:0:04,h19km,n11,
c1510/14,Iran-Iraq border region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like ILBA Ilam Banvizeh, IBDR Badra, GLG1 Gilan-e-Gharb, etc.

BEO 01 21:46:11.0,0.6,40:30N:20:83E,h0km,ML2.6/3
TIR 01 21:46:12.1,40:50N:20:90E,h18km,1km,M3.0/10
ATH 01 21:46:12.1,40:40N:20:82E,h6km,1km,ML2.6/12

Manual Solution by F. Xalari First location: 2019/06/01
21:47:13, This location: 2019/06/01 22:10:14 ML
Amplitudes are expressed in degrees Latitude uncertainty: 0 km;
Longitude uncertainty: 0 km

SKO 01 21:46:13.9,40:42N:20:90E,h5km,ML2.7
THE 01 21:46:13.8,41:1N:2:2:1E:1,h3km,3km,M2.6/21,
MLh2.6/21

ISC 01 21:46:12.5,0.8,40:43N:0:01:20:85E:0:02,h10km,6km,
n93,c1516/137,9C-10D,Greece-Albania border region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like NEST Nestorio, KBN Korca, KPRO Kipourio, etc.

comp=N,184nm,0.5s
OHR Ohrid
KZN Kozani
JAN Janina
SRN Sarande

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like KEK Kerkira, TETR Tirakomo, TIR Tirane, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like HORT Hortiatis, NYDR Nydri-Lefkada, NYDR Nydri-Lefkada, etc.

AGG Agios Georgios
AGG Agios Georgios
AGG Agios Georgios
EVGI Lefkada island

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like Lefkada island, PDD Prodromos, SCTE Santa Cesarea, etc.

BOSS Bosilegrad
MMB Musomishita
BARS Barje
BARS Barje

BEY Berane
BANE Banja
HCY Herceg Novi
SELS Selva
VTS Vitosh

SJES Sjenica
ZAPS Zavojski
BANS Banja
BOVS Bovan
STON Ston

ZAGS Zajecar
ZAGS Zajecar
HANS Han Pijesak, BI
TEKS Tekstari

BOJS Bojanci
CEY Cernikna
CEY Cernikna

IDC 01 21:49:20.1,1.4,1:11N:99:68E,h183km,7km,mb3.6/11,
mbmp4.0/12,Error ellipse: s-maj=47.7km s-min=12.9km
az=54.0

DJA 01 21:49:22.4,0.4,1:14N:10:0E:1,h160km,5km,M3.9/12,
mb4.9/1,mb4.3/1,MLV3.6/12,Mv(mb)4.2/1

ISC 01 21:49:21.3,0.8,1:22N:0:08:99.7E:0:1,h200km,n21,
c211/23,mb3.8/11,Northern Sumatera

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like MAND Mandailing Nat, BKNI Bangkinang, PSI Prapat, etc.

ASAR Alice Springs
SONM Songoing Array
MKAR Makanchi Array

MJAR Matsushiro Arr
KURBB Kurchatov Arr
ZALV Zalesovo Beam

BVAR Borovoye Array
FINES Finest Array B

ARCES ARCESS Array B
SPITS Spitsbergen Arr

MEX 01 21:51:09.6,0.5,14:15N:92:61W,h16km,369km,MD3.9
GCG 01 21:51:10.5,0:7,14:53N:92:10W,h112km,12km,MD4.0,
IGM ML3.0

ISC 01 21:51:05.2,0.3,14:25N:0:09:92:65W:0:05,h12km,17km,
n11,c202/21,Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists stations like THIG Thig, PATR Patre, RTAL Retalhuleu, etc.

NNC 01 21:52:14.0,3.5,37:30N:71:34E,h0km,mb4.0,mpv3.7,
Error ellipse: s-maj=28.3km s-min=22.4km az=157.0
IDC 01 21:52:26.6,17.0,37:32N:71:62E,h258km,140km,
mb3.4/3,mbmp3.8/6,Error ellipse: s-maj=192.5km

1d 23h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like AAK Ala-Archa, KK31 Karatay Array, CHMS Chumysh, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KRSR Korea Array, WRA Warrungu Arr, MKAR Makanchi Array, etc.

TIR 01 22:06:59.0, 40.42N, 20.73E, h10km, 1km, Md3.2/1, Ml2.9/9
BEO 01 22:07:01.2, 2.0, 40.45N, 20.81E, h11km, 7km, Ml2.6/3
THE 01 22:07:02.6, 40.1N, 2.2E, h7km, 4km, Ml2.5/22, Ml2.5/22

ATH 01 22:07:02.2, 40.37N, 20.98E, h6km, 1km, Ml2.5/13, Manual Solution by F. Xalaris First location: 2019/06/01 22:08:03, This location: 2021/06/05 10:38:05 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KBN Korca, NEST Nestorio, PENT Pentalos, etc.

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SCTE Lefkada island, EVGI Agios Georgios, AGG Agios Georgios, etc.

SCB 01 22:32:06.8, 1.5, 21.40S, 66.66W, h211km, 21km, Ml2.9/3, MW3.8, Error ellipse: s-maj=8.6km s-min=8.2km az=0.0, Northern Bolivia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like YJA Yavi, PB09 IPOC Station P, PB08 IPOC Station P, etc.

CRAAG 01 22:51:07.0, 36.88N, 3.20E, Ml3.4, Algeria 08km NW El-Marsa
MDD 01 22:51:07.9, 0.6, 36.83N, 3.24E, h30km, 9km, Mb3.9/34, Mz=154.0, Mb3.2/37, Error ellipse: s-maj=6.6km s-min=3.0km

ISC 01 22:51:07.1, 1.2, 36.89N, 0.04, 3.26E, 0.04, h24km, 11km, n33, s184/48, 15C, Northern Algeria

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like ABA Alger-Bouzarea, AKED El Kharrouba, ADJR Djebel Jouba, etc.

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like DJA 01 23:14:44.0, 4.0, 4.1N, 4.2E, h10km, M4.1/12, mb4.2/3, Ml4.0/12, ISC 01 23:14:44.3, 1.3, 0.8N, 0.1, 120.1E, 0.1, h10km, n13, s120/12, mb3.4/3, Minahassa Peninsula, Sulawesi

IDC 01 23:36:13.4, 3.6, 26.94S, 73.08E, h0km, mb3.8/5, mbtmp3.8/5, Error ellipse: s-maj=133.0km s-min=31.3km az=38.0, Mid-Indian Ridge

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like H08S1 Diego Garcia H, H08S2 Diego Garcia H, H08S3 Diego Garcia H, etc.

GCG 01 23:37:11.7, 0.8, 13.24N, 89.38W, h57km, 7km, MD3.5
CATAC 01 23:37:11.7, 0.8, 13.16N, 89.9W, h33km, 4km, Ml2.9/6, Ml2.9/6, Error ellipse: s-maj=12.7km s-min=6.9km

SNET 01 23:37:12.0, 2.0, 13.27N, 89.37W, h56km, 6km, Ml3.0
ISC 01 23:37:12.2, 2.3, 13.2N, 0.1, 189.40W, 0.07, h49km, 11km, n35, s050/45, El Salvador

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like LALI Alcalda de L, LALI Alcalda de L, LALI Alcalda de L, etc.

TEH 01 23:41:32.5, 30.32N, 51.60E, h5km
DSN 01 23:41:37.6, 1.6, 29.85N, 51.71E, h10km, Ml3.2/6, Error ellipse: s-maj=2.8km s-min=8.8km az=12.0

ISC 01 23:41:34.4, 1.0, 30.18N, 0.06, 51.57E, 0.06, h15km, n32, s136/32, Northern and central Iran

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KAZZ Kazeron-Fars-I, KIR1 Kerman, IRAM Ramesheh, etc.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KHGB Koh Gabri, NGRK Negar Kerman, IKFM Kfar-mosalmán, etc.

GC01 23:46:17.9.0.4, 13°13'N-87°9'W, h191km, 18km, MD4.0, SNET 01 23:46:18.4.0.6, 13°12'N-87°7'W, h170km, 4km, ML3.6, CATAC 01 23:46:18.5.0.5, 13°N.5'-8°W.1', h172km, 3km, M3.1/18, MLV3.1/18, Error ellipse: s-maj=10.9km s-min=3.8km az=21.7, confirmed

ISC 01 23:46:18.7.2.1, 13°12'N-101°10'87.6W, 0.05, h173km, 12km, n61, c055071, 14C-6D, Honduras

Main station list for Honduras region, including stations like CNCH Conchagua, VSM Lacayo, RANC El Ranchito, PACA Pacalay, CAHU Cacacuatque, etc.

IDC 02 00:28:14.2.6.2, 60°00'S-177°88'W, h517km, 25km, mb2.9/5, mbmp3.7/6, Error ellipse: s-maj=40.3km s-min=23.8km az=140.0

ISC 02 00:28:13.2.1.0, 20°1'S-177°7'W, 0.2, h500km, n9, c1941/9, mb3.3/5, Fiji Islands region

Main station list for Fiji Islands region, including stations like MSVF Nonsavu, ASAR Alca Springs, WRA Warramanga Arr, GSPA South Poi Que, etc.

CATAC 02 00:34:20.6.0.2, 10°1'N-178°5'W, h8km, 2km, M3.1/7, MLV3.1/7, 3C-4D, Error ellipse: s-maj=4.1km s-min=3.1km az=86.1, confirmed, Costa Rica

Main station list for Costa Rica region, including stations like SOCE Pocosol, COVE Coope Vega, Sa, TCS1 Tacares, etc.

SJA 02 01:36:21.0.0.7, 21°21'S-68°55'W, h140km, 4km, ML3.3, MW3.5

GUC 02 00:36:23.0.0.6, 21°19'S-68°55'W, h128km, 5km, ML3.6

ISC 02 00:36:21.5.1.5, 21°21'S-68°55'W, 0.05, h137km, 12km, n21, c0882/41, 3C-4D, Chile-Bolivia border region

Main station list for Chile-Bolivia border region, including stations like PB09 IPOC Station P, PB09 IPOC Station P, PB01 IPOC Station P, etc.

TIR 02 01:00:09.2.40'51N-20'85E, h16km, M3.1/8, BEO 02 01:00:09.3.0.7, 40'38N-20'85E, h0km, ML2.8/4, PDG 02 01:00:10.6.0.7, 40'51N-20'87E, h9km, 1km, ML2.9/11, Error ellipse: s-maj=0.9km s-min=1.5km az=0.0, ATH 02 01:00:11.6.0.3, 40'50N-20'96E, h5km, ML2.8/15, Manual Solution by S.Liakopoulos First location: 2019/06/02 01:01:14, This location: 2020/10/26 11:16:10 ML, Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 1 km

THE 02 01:00:12.8.40'N-2°2'E, h0km, 1km, M2.6/31, MLH2.6/31

SKO 02 01:00:12.7.40'53N-20'92E, h4km, ML2.8, ISC 02 01:00:10.6.1.0, 40'51N-20'87E, 0.02, h3km, 9km, n137, c1911/196, 12C-13D, Greece-Albania border region

Main station list for Greece-Albania border region, including stations like KBN Korca, NEST Nestorio, NEST Nestorio, etc.

TIR Tirane, 1.13 318 ePg Pb 01 00 34.1 -1.4

Main station list for Tirane region, including stations like KEK Kerkira, PESH Peshkopia, THL Thessaloniki, etc.

Table with columns: BOJ, Bofjanci, CRES, Cresnjavec Ost, CEY, Cerknica, CEY, Cerknica, CEY, CEY, OBKA, Obir. Includes coordinates and time data.

IDC 02.01:07:03.1+1.0, 16N; 97.97E, h0km, mb3.7/11, mtbmp3.7/13, ML3.1/1, MS3.2/7, Error ellipse: s-maj=34.6km s-min=18.4km az=57.0

DJA 02.01:07:06.0+5, 0N; 4.9E, h13km, 4km, M4.5/12, mb4.5/6, MLV4.5/12

ISC 02.01:07:04.7+0.9, 016N; 009.978E:0.1, h10km, n41, r=157/26, mb3.9/11, MS3.2/7, Northern Sumatera

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res. Includes stations like GSI, MNSI, PPI, PSI, BKN1, BSI, TSI, MNA1, MDS1, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res. Includes stations like PALK, KAPI, H0S2Z, H0S3Z, H0S1Z, H0W3Z, H0W2Z, H0W1Z, WRA, ASAR, KSRS, SONM, MKAR, MJAR, KURBB, USRK, ZALV, BVAR, H04N2, H04N1, H04N3, H04S1, H04S3, H04S2, KBZ, BRTR, MA2, NVAR, PDAR, TXAR.

IDC 02.01:07:05.4+25.0, 21N; 10N; 157.41W, h0km, mb4.0/11, mtbmp4.0/11, MS3.7/31, Error ellipse: s-maj=21.2km s-min=17.7km az=62.0

NEIC 02.01:07:20.3+1.0, 47.0S; 0.1+10.6W:0.2, h10km, 1km, mb4.7/28, Error ellipse: s-maj=24.9km s-min=20.6km az=161.0

GCMT 02.01:07:24.3+0.4, 46.91S; 0.03+10.31W:0.03, h2km, 2km, MW4.8/80, Moment Tensor Solution. s13,c14; s80,c94; Duration: 0 Moment tensor: Scale 10^10Nm; Mrr,0.01+1.1; Mtheta,0.0+1.0; Mphi,0.0+1.0; Mxx,0.55+1.5; Mxy,1.45+0.8; Myz,0.76+1.7; Best double couple: M01.88800x10^16 Np1.3x73.00000, d63.00000, l173.00000; NP2: q=167.00000, s84.00000, l27.00000; Principal axes: T, 0.2040, P1g23.0000, Azm33.0000; N, -0.2720, P1g62.0000, Azm7.0000; P, -1.7520, P1g14.0000; Azm297.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 02.01:07:19.8+0.5, 47.0S; 0.1+10.59W:0.10, h10km, n66, r=67/33, mb4.6/22, MS3.8/31, 1C, Southern Mid-Atlantic Ridge

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res. Includes stations like SNA4, SNA5, SNA6, SUR, SYO, BOSA.

Table with columns: BOSA, Boshof, BOSA, Palmer Station, KOOLE, KOOLE, MAKGR, KACGAE, Tsumeb, TSUM, TSUM, LBTB, LBTB, LBTB, GRTLQ, GRTLQ, LPHEP, ONGWA, ONGWA, TRQA, MREMI, PHDHD, PHDHD, MAW, MAW, MAW, H04S2, H04S3, H04S1, CPUP, CPUP, PLCA, QSPA, QSPA, QSPA, BDFB, BDFB, BDFB, LSZ, LSZ, BOO1, BOO1, SIV, PB09, DBIC, PB16, Vnda, Vnda, LPAZ, LPAZ, SAML, SAML, TORO, MDP, NNA, ATAH, TAM, PCRV, ROSC, SDV, MDT, H0S1Z, H0S2Z, H0S3Z, SJG, KEST, ESDC, ESDC, EIL, NWA0, ASF, MMAI, URZ, MLR, BVAR, BVAR, PZH, ILAR.

NEIC 02.01:08:04.5+0.2, 36.66N; 02.98853W:0.006, h5km, 2km, Error ellipse: s-maj=2.2km s-min=0.4km az=191.0

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res. Includes stations like BOSA, KOOLE, MAKGR, KACGAE, Tsumeb, TSUM, LBTB, GRTLQ, LPHEP, ONGWA, TRQA, MREMI, PHDHD, MAW, H04S2, H04S3, H04S1, CPUP, PLCA, QSPA, BDFB, LSZ, BOO1, SIV, PB09, DBIC, PB16, Vnda, LPAZ, SAML, TORO, MDP, NNA, ATAH, TAM, PCRV, ROSC, SDV, MDT, H0S1Z, H0S2Z, H0S3Z, SJG, KEST, ESDC, EIL, NWA0, ASF, MMAI, URZ, MLR, BVAR, PZH, ILAR.

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

NEIC 02.01:08:04.4+0.3, 36.66N; 02.98853W:0.008, h5km, 1km, mb\_L2g.6/5, ML2.1/15, ML2.3/8, Error ellipse: s-maj=2.8km s-min=2.1km az=185.0, Oklahoma

Table with columns: OK038, CROK, CROK, CROK, GCO2, KAN05, KAN08, KAN12, KAN17, CSTR, CSTR, KAN09, KAN13, DRZT, DRZT, BLOK, OK051, OK052, SMWD, WMOK, CBKS, SPMN.

DJA 02.01:13:20.2+2.2, N3.3; 12.7E, h10km, M4.3/17, mb4.8/5, Error ellipse: s-maj=17.6km s-min=9.0km az=212.0

NEIC 02.01:13:21.6+1.7, 15.1N; 0.09; 126.53E:0.07, h35km, 2km, mb4.5/16, Error ellipse: s-maj=17.6km s-min=9.0km az=212.0

IDC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

ISC 02.01:13:21.9+0.4, 1.57N; 0.05; 126.63E:0.06, h47km, n66, r=158/67, mb4.4/25, MS3.5/6, Northern Molucca Sea

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res. Includes stations like TMTI, TMTI, TMTI, SGGI, KMSI, SANI, LUWI, LUWI, NLAJ, MRSI, Sorong, APSI, DAV, TOLJZ, MPSTI, FAKI, FAKI, TTSI, SPSI, BNSI, MYLMD, KAPPA, KAPI, MTN, KNRA, KNRA, FITZ, FITZ, COEN, COEN, WRO, WRO, WRA, WRA, PMG, MBWA, AS31, ASAR, ASAR, CMAR, FORT, BBOO, BBOO, KSRS, STKA, MJAR, ARMA, USRK, SONM, WMQ, WMQ, WMQ, PETK, MKAR, YAK, KURKB, KURK, KURK, KKR, BVAR, BVAR, NRIK.

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

NEIC 02.01:13:22.2+2.6, 1.57N; 126.60E, h53km, 23km, mb3.9/18, mtbmp4.2/20, ML4.3/2, MS3.3/7, Error ellipse: s-maj=30.1km s-min=9.2km az=78.0

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like AB31 Akbulak array, ARTI Arti, VVDA Vanda, SBA Scott Base, etc.

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like ALNE Al Ain, IKOO Kooshah, AJN Aljan, ARQ Araki, etc.

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like AAK Ala-Archa, AAK Ala-Archa, AAK Ala-Archa, etc.

THR 02 01:16:56.0, 27:50N, 59:29E, h10km, 7km, ML4.5
DSN 02 01:16:56.2, 1.1, 27:77N, 59:14E, h10km, ML4.0/18, Error
ellipse: s-maj=37.1km s-min=10.1km az=146.0

AFRZ Afriz
TPRV Parvadeh(Tabas
SHRKT Shahrakht
SHRKT Shahrakht

AAK Ala-Archa 19.45 35 Iamb P 01 21 18.7 -1.3
AAK Ala-Archa 19.45 35 P Iamb Iamb 01 21 24.0

OMAN 02 01:17:01.4, 0.1, 27:15N, 59:18E, h11km, 1km, mb5.5/11,
mL4.0/20, Error ellipse: s-maj=3.3km s-min=1.3km az=16.0

UMZA Um Al Zommoof
MZWVR Madinat Zayed
TKDS Kooshah(Taba

AAK Ala-Archa 19.45 35 P Iamb Iamb 01 21 24.0

Main table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like KHNJ Khanjooj, KBAM BAM, CHBR Chabahar, etc.

Main table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like ALNE Al Ain, IKOO Kooshah, AJN Aljan, etc.

Main table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like AAK Ala-Archa, AAK Ala-Archa, AAK Ala-Archa, etc.

2d 1h

2019 JUN

Table with columns: EKA, comp, pP, 01 26 19.8 +2.7, etc. Lists various stations and their associated data.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists station details for the ML2.9/14, ML2.8(AEIC) event.

Table with columns: NVAR, comp, Lg, Lg, 01 54 03.2, etc. Lists station details for the NVAR event.

CATAC 02 01:22:43.8±0.13 N 6° 8' 9" W, h27km, 4km, M3.1/13, MLV3.1/13, Error ellipse: s-maj=14.0km s-min=5.8km az=34.2, confirmed

IDC 02 01:52:33.1±1.3, 37° 19' N; 114° 92' W, h0km, mbtp3.0/4, ML3.3/4, Error ellipse: s-maj=13.0km s-min=8.7km az=179.0

IDC 02 01:59:44.5±1.8, 5° 49' S; 147° 60' E, h185km, 15km, mb3.6/8, mbtp4.2/11, Error ellipse: s-maj=24.3km s-min=12.3km az=100.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists station details for the CATAC event.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists station details for the IDC 02 01:52:33.1 event.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists station details for the IDC 02 01:59:44.5 event.

AEIC 02 01:25:24.0±1.5, 53° 95' N; 05° 162' 07" W, h19km, 7km, Error ellipse: s-maj=8.3km s-min=4.7km az=164.0

NEIC 02 01:25:21.8±2.0, 53° 30' N; 06° 161° 34' W, h10km, 2km, Error ellipse: s-maj=11.7km s-min=6.5km az=169.0

ISC 02 01:59:43.0±7.5, 53° S; 07° 147° E, h107km, m30, or 156/133, mb3.8/11, Eastern New Guinea region



Table with columns: VAY, comp, elg, Lg, 02 32 07.8, 02 31 39.2+1.1, 02 32 03.0+1.8, 02 31 40.4+0.8, 02 32 02.4+0.5, 02 31 39.3+0.5, 02 32 06.8+3.7, 02 32 12.8, 02 31 39.2+0.5, 02 31 39.2+0.5, 02 32 03.9+0.8, 02 31 38.7+0.0, 02 31 41.3+0.8, 02 31 40.4+0.8, 02 31 41.6+1.0, 02 31 41.5+1.0, 02 31 41.5+0.2, 02 31 41.4+0.1, 02 31 41.7+1.6, 02 32 11.1, 02 31 40.5+0.5, 02 31 40.5+0.5, 02 31 40.6+0.6, 02 31 40.6+0.6, 02 31 40.6+0.5, 02 31 40.5+0.3, 02 31 42.8+0.6, 02 31 42.4+0.2, 02 31 42.9+1.4, 02 31 42.2+1.4, 02 31 44.2-0.2, 02 31 44.5+0.8, 02 31 43.9+1.5, 02 31 43.7+1.5, 02 31 43.8+1.4, 02 32 10.5+1.5, 02 31 44.8+2.2, 02 31 44.5+2.0, 02 31 44.1+1.1, 02 31 44.0+0.8, 02 31 46.3+0.2, 02 31 45.9-0.2, 02 31 46.1+2.5, 02 32 15.0+0.6, 02 32 17.0, 02 31 47.2+1.0, 02 31 44.9+1.3, 02 31 44.2+0.6, 02 31 47.1+1.3, 02 31 46.8+1.6, 02 31 48.7+0.5, 02 32 15.1+3.2, 02 31 47.5+2.1, 02 31 46.5+1.0, 02 31 47.6+1.8, 02 31 47.6+1.8, 02 31 48.2+2.3, 02 31 49.5-0.1, 02 31 47.7+1.3, 02 31 47.9+1.4, 02 31 48.0+1.4, 02 31 47.2+0.6, 02 31 47.4+0.8, 02 31 47.1+0.5, 02 31 50.0-0.1, 02 31 47.2+0.3, 02 31 50.6+0.1, 02 31 48.7+1.7, 02 31 49.0+3.2, 02 31 49.0+1.7, 02 31 48.9+1.3, 02 31 49.1+1.5, 02 31 49.0+1.3, 02 31 48.2+2.0, 02 31 49.2+0.9, 02 31 49.3+1.0, 02 32 20.8+3.4, 02 31 50.0+0.7, 02 31 51.2+1.2, 02 31 50.6+0.8, 02 31 51.5+1.2, 02 31 52.3+0.0, 02 32 23.9+2.8, 02 31 51.0+0.8, 02 31 51.1+0.7, 02 31 54.0+3.2, 02 31 54.8-0.4, 02 31 52.3+1.5, 02 32 25.2+3.2, 02 31 51.9+1.0, 02 31 51.3+0.4, 02 32 25.8+3.7, 02 31 52.8+1.0, 02 32 26.9+3.2, 02 31 52.1+0.7, 02 31 56.5+1.5, 02 31 55.1+0.1, 02 31 57.5+2.2, 02 31 57.5+1.8, 02 31 56.9+1.1, 02 31 54.1+2.0, 02 31 58.7+1.5, 02 31 57.7+0.6, 02 31 58.5+1.4, 02 32 35.8+2.5, 02 32 01.2+2.8, 02 31 59.4+2.5, 02 32 38.5+2.9, 02 32 00.5+1.9, 02 32 00.5+1.7, 02 32 00.0+1.2, 02 32 39.1+2.8, 02 32 02.1+3.0, 02 32 01.0+1.6, 02 32 00.9+1.2, 02 32 01.4+0.4, 02 32 01.4+0.4, 02 32 02.8+0.7, 02 32 01.6-0.5, 02 32 02.2+0.1, 02 32 05.4+1.9, 02 32 06.4+1.7, 02 31 54.1+2.0, 02 32 08.6+1.5, 02 32 08.9+0.7, 02 32 10.5+0.9, 02 32 11.0+1.4, 02 32 12.2+0.8, 02 32 14.8+0.8, 02 32 14.7+0.8, 02 32 14.7+0.8, 02 32 17.7+1.2, 02 31 59.4+2.5, 02 32 21.6-0.1, 02 32 26.0+0.4, 02 32 26.6+0.1, 02 32 29.4+1.7, 02 32 28.9+1.2, 02 32 31.4+0.7, 02 32 32.2+0.0, 02 32 38.3+0.1, 02 32 39.5+0.4, 02 33 47.5-1.0, 02 32 45.5+2.7

Table with columns: MLR, BOJS, BOJS, BOJS, CRES, VRI, CEY, CEY, CEY, SOKA, PSZ, OBKA, OBKA, ARSA, ARSA, KECS, MYKA, VYHS, VYHS, ABTA, MOA, LESA, VRA, WTTA, WATA, SQTA, GERES, FETA, DOTA, MAVO, DAVOX, ESDC, HFS, FINES, NB2, NOA, NOA, EKA, ARCES, TORD, MKAR, ASAR, NEIC, IDC, NOU, ISC, Code, INH, PINN, PINN, YATNC, QUENC, ONTNC, ONTNC, DZM, DZM, STKA, MSFV, MSFV, RAO, URZ, EIDS, EIDS, CTAO, STKA, AS31, AS31, ASAR, WBO, WBO, MTN, FITZ, WNDV, VYHS, GSPA, GSPA, SMAI, SMAI, SYO, SNA, NVAR, EKA, GERES, JMA, SKHL

Table with columns: ISC 02 02:47:11.3, 3.9, 44.33N, 010:10x148E:0.2, h35km, n15, Code, Station Name, A° AZ°, Phase ID, Time Res, ISC, h m s ISC, KUR, Kuril'sk, 1.18 321, Op, ISC, h m s ISC, KUR, 80nm,0.2s, AMB, AMB, 02 47 32.6, KUR, 490nm,0.2s, eS, Sn, 02 47 45.3 -0.8, KUR, 280nm,0.2s, eP, A, 02 47 49.7, SHO, Shikotan, 1.58 254, eP, A, 02 47 37.2 +0.4, SHO, 20nm,0.3s, AMB, AMB, 02 47 37.6, SHO, 130nm,0.3s, eS, A, 02 47 55.1, SHO, 140nm,0.3s, A, A, 02 47 57.1, YUK, Yuzh-Kuril'sk, 2.23 264, eP, A, 02 47 46.8 +1.1, YUK, 70nm,0.2s, AMB, AMB, 02 47 49.2, YUK, 290nm,0.3s, eS, A, 02 48 12.3 +0.4, YUK, 300nm,0.3s, A, A, 02 48 19.3, NEM2, Nemuro 2, 2.50 248, eP, Sn, 02 47 49.0 -0.4, NEM2, Nemuro 1, 2.51 249, eP, Sn, 02 47 50.1 +0.6, NMR, Nemuro-Hokkai, 2.57 249, eP, Sn, 02 48 18.8 0.0, JRA, Rausu, 2.77 263, eP, Sn, 02 47 54.0 +0.9, JNK, Nakash, 3.13 258, eP, Sn, 02 48 33.8 -0.5, AKK, Akkeshi, 3.24 248, eP, Sn, 02 48 09.1 +2.3, JAK, Akkeshi, 3.35 248, eP, Sn, 02 48 39.9 -1.6, JTKR, Abashiri-Toko, 3.63 266, eP, Sn, 02 48 06.1 +1.1, JAR, Ashorobuto, 3.87 256, eP, Sn, 02 48 01.1 +1.7, JAR, 3.96 251, eS, Sn, 02 48 53.0 +0.4, JOB, Onbets, 4.40 249, eP, Sn, 02 48 03.9 -0.9, JCH, 4.40 249, eP, Sn, 02 49 02.8 -2.7, JNBK, Urakawa-nobuka, 4.95 248, eP, Sn, 02 48 23.7 +0.6, JNG, Nango, 6.76 247, eS, Sn, 02 49 56.2 -7.6, SLM 02 03:02:30.2:0.4, 36.528N:0.007:89.57W:0.01, h8km, 1km, Error ellipse: s-maj=1.2km s-min=1.1km az=122.0, NEIC 02 03:03:00.8:0.4, 36.529N:0.003:89.57W:0.01, h5km, 1km, MLN 02/4, M42.5/37(SLM), Error ellipse: s-maj=2.8km s-min=1.7km az=69.0, New Madrid region, Missouri, Code, Station Name, A° AZ°, Phase ID, Time Res, ISC, h m s ISC, WALK, Watson Lake, 0.02 66, Pg, 03 02 31.8 +0.1, NMEM, New Madrid Sch, 0.05 344, Pg, 03 02 32.1 +0.1, CATM, Catmon, 0.06 114, Pg, 03 02 32.5 +0.1, MARMO, Marston, 0.08 270, Sg, 03 02 32.6 0.0, MARMO, Penman, 0.09 211, Sg, 03 02 34.5 +0.8, PENMO, Penman, 0.09 211, Sg, 03 02 32.6 -0.1, CATM, Catmon, 0.10 323, Pg, 03 02 34.7 +0.7, CATM, Saint John's B, 0.12 327, Pg, 03 02 35.9 +0.9, SJMO, Saint John's B, 0.12 327, Pg, 03 02 33.0 -0.1, SJMO, Point Pleasant, 0.13 185, Pg, 03 02 35.8 +0.9, PPLM, Portage Bay, 0.14 212, Sg, 03 02 35.7 +0.7, PPLM, Portage Bay, 0.14 212, Sg, 03 02 35.4 +0.1, PGBM, Portageville, 0.15 242, Pg, 03 02 36.2 +0.7, PGBM, Portageville, 0.15 242, Pg, 03 02 36.6 -0.1, PVMO, Portageville, 0.16 222, Pg, 03 02 36.7 +0.2, KEWM, Kewanee, 0.17 354, Sg, 03 02 34.0 +0.1, KEWM, Wynnburg, 0.19 162, Sg, 03 02 37.0 +0.6, WYBT, Wynnburg, 0.19 162, Sg, 03 02 34.4 -0.1, WYBT, Parma, 0.20 312, Sg, 03 02 37.8 +0.8, PARMO, Parma, 0.20 312, Sg, 03 02 34.7 0.0, PARMO, comp=E,250nm,0.1s, IAML, 03 02 38.1, PARMO, comp=N,305nm,0.1s, IAML, 03 02 38.1, HENN, Henderson Mountain, 0.20 23, Pg, 03 02 37.9 +0.5, COKM, Charter Oak, 0.22 325, Sg, 03 02 35.0 -0.1, COKM, 0.22 325, Sg, 03 02 38.5 +0.5, FLPT, Filippin, 0.23 121, Sg, 03 02 35.2 -0.2, FLPT, WADM Wardell, 0.24 228, Sg, 03 02 39.1 +0.7, WADM, WADM, 0.24 228, Sg, 03 02 35.3 -0.2, MATM, Matthews, 0.25 353, Sg, 03 02 39.3 +0.4, EPRM, East Prairie, 0.25 42, Sg, 03 02 35.4 -0.3, EPRM, 0.25 42, Sg, 03 02 39.5 +0.4, TOPM, Tallapoosa, 0.26 269, Pg, 03 02 35.5 -0.3, DWDM, Dogwood, 0.27 113, Pg, 03 02 38.1 +0.1, DWDM, Pele, 0.28 110, Pg, 03 02 40.1 +0.4, HICK, Hickman, 0.28 88, Pg, 03 02 35.9 -0.2, HICK, comp=N,257nm,0.2s, IAML, 03 02 44.9, MLDN, Malden, 0.30 289, Pg, 03 02 36.3 -0.3, GLAT, Glass, 0.34 139, Sg, 03 02 42.5 +0.5, GLAT, Glass, 0.34 139, IAML, 03 02 42.6, GLAT, comp=N,129nm,0.2s, IAML, 03 02 42.6, CHRM, Charleston, 0.36 27, Pg, 03 02 37.4 -0.4, BRNM, Bernie, 0.40 299, Pg, 03 02 38.0 -0.4, BRNM, Braggadocio, 0.40 216, Pg, 03 02 38.1 -0.3, LNXT, Lenox, 0.43 172, Pg, 03 02 39.0 -0.1, PEBM, Pele, 0.48 210, Pg, 03 02 40.1 +0.4, PEBM, Pele, 0.48 210, Pg, 03 02 35.9 -0.2, FMKY, Fulgham, 0.55 76, Pg, 03 02 40.7 -0.6, GNAR, Gosnell, 0.67 213, Pg, 03 02 43.3 -0.3, GNAR, comp=E,66nm,0.4s, IAML, 03 02 55.6, PBMO, Poplar Bluff, 0.73 290, Pg, 03 02 44.0 -0.8, CGM3, Cape Girardeau, 0.77 355, Sg, 03 02 54.8 -0.7, CGM3, comp=N,64nm,0.1s, IAML, 03 03 00.1, CGM3, Cape Girardeau, 0.77 355, Pg, 03 02 44.9 -0.6, T45A, Paducah, 0.89 56, Pg, 03 02 46.9 -0.9, T45A, comp=N,47nm,0.5s, IAML, 03 03 00.5, LPAR, Lepanto, 1.10 213, Pg, 03 02 51.1 -0.8, HBAR, Harrisburg, 1.31 223, Pg, 03 02 54.4 -1.3, T42A, Van Buren, 1.32 293, Pg, 03 03 13.4, T42A, comp=N,28nm,0.2s, IAML, 03 03 13.8, LCAR, Lake Charles, 1.36 251, Pg, 03 02 54.7 -1.7, FVIR, Fort Vireo, 1.60 335, Pg, 03 02 59.7 -0.1, FCAR, Ozark Folk Camp, 2.16 254, Pg, 03 03 07.3 -0.1, MOS 02 03:03:05.6:0.9, 0.70N-98.53E, h32km, mb5.9/81, M5.4/13, Error ellipse: s-maj=6.7km s-min=3.4km az=117.2, BUJ 02 03:03:06.0:0.38N-98.47E, h60km, mb5.5/57, mb5.6/94, M5.4/9, Mb5.4/9, NEIC 02 03:03:03.2:0.65N-98.45E, h30km, DJA 02 03:03:09.5:0.2, 1.1N, 1.9E, h47km, 2km, M5.3/107, mb5.5/107, mb5.8/61, MLV5.8/19, Mw(mb)5.4/61, MwMwp5.0/16, MwMwp5.3/16, NEIC 02 03:03:09.6:2.5, 0.65N-106.98E:0.05, h43km, 1km, mb5.6/302, Mw5.3/21, Mw5.4/16, Error ellipse: s-maj=11.5km s-min=8.2km az=213.0, Moment Tensor Solution. Moment tensor: Scale 10^17Nm; Mr=0.45; Mw=0.23; Mo=0.68; Mn=0.65; Mb=0.42; Mu=0.71; Fault plane solution: M1:1.200x10^17 NPa167.04000°, 625.20000°, 1:144.06000°. NP2:43.78000°, 875.53000°, 1:69.14000°. Principal axes: T:1.152, P:28.00000°, Azm:1.70000°, N:-0.263, P:2.00000°, Azm:218.00000°, P:-1.0518, P:65.00000°, Azm:340.00000°



IDC 02 03:03:09.3:0.5, 0.60N-98.50E, h51km, 3km, mb5.1/41, mbmp5.3/45, MS4.3/71 Error ellipse: s-maj=10.3km s-min=7.6km az=73.0  
 BGR 02 03:03:10.8, 0.52N-97.37E, h33km, mb5.8, mB\_BB5.9, MS4.3  
 GCMT 02 03:03:11.2, 0.1, 0.65N, 0.01:98.46E:0.01, h43km, 1km, MW5.3/135, Moment Tensor Solution. s11c171; s135,c274; Duration: 1s1 Moment tensor: Scale 10<sup>17</sup> Nm; M<sub>rr</sub>-0.29±.02; M<sub>θθ</sub>-0.25±.01; M<sub>φφ</sub>0.53±.01; M<sub>rr</sub>-0.79±.02; M<sub>θθ</sub>0.17±.01; M<sub>φφ</sub>-0.68±.02; Best double couple: M<sub>1</sub>-15100±1017; M<sub>2</sub>-156.00000; β22.00000; β<sub>1</sub>-159.00000; NP2=46.00000; β22.00000; 1-69.00000 Principal axes: T 1.5560, Plg34.0000; Azm119.0000; N -0.0100, Plg20.0000; Azm223.0000; P -1.1460, Plg49.0000; Azm338.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function.

ISC 02 03:03:09.3:0.3, 0.61N, 0.03:98.46E:0.03, h51km, 1km, h52km; pP-P, n1407, r127/1395, mb5.6/372, MS4.5/116, 40C-121D, Northern Sumatera

Code	Station Name	Δ <sup>12</sup> AZ <sup>30</sup>	Phase ID	ISC	Time	Res
			Op		h	S
GSI	Gunungsitoli	1.12 308	P	Pn	03 03 29.7 +1.0	
GSI	Gunungsitoli	1.12 308	P	Pn	03 03 30.1 +1.4	
GSI	Gunungsitoli	1.12 308	P	Pn	03 03 29.5 +0.8	
MNSI	Mandailing Nat	1.14 81	P	Pn	03 03 30.2 +1.3	
SISI	Saibi	2.03 162	P	Pn	03 03 41.2 +0.1	
RPSI	Rantau Prapat	2.22 113	P	Pn	03 03 44.3 +2.0	
PPI	Padang Panjang	2.22 119	P	Pn	03 03 45.8 +2.2	
PSI	Prapat	2.22 12	P	Pn	03 03 43.8 0.0	
PSI	822nm, 0.3s, baz=257, slow=3.6, SNR=786			Sn	03 04 04.2 -5.9	
PSI	3μm, 0.7s, baz=133, slow=16, SNR=15			S		
PSI	comp=Z, 2μm, 19.3s, baz=232, slow=30			LR	03 04 12.3	
PSI	Prapat	2.22 12	P	Pn	03 03 44.7 +0.9	
PSI	Prapat	2.22 12	S	Pn	03 03 44.1 +1.3	
BKNI	Bangkinang	2.60 96	P	Pn	03 03 50.5 +1.6	
BKNI	Bangkinang	2.60 96	P	Pn	03 03 50.9 +2.0	
BKNI	Bangkinang	2.60 96	P	Pn	03 03 50.2 +1.3	
TSI	Tuntungan	2.87 2	P	Pn	03 03 54.7 +2.1	
LHMI	Lhok Sumawe	4.83 342	P	Pn	03 04 19.9 +0.4	
LHMI	Lhok Sumawe	4.83 342	P	Pn	03 04 21.9 +1.5	
LHMI	Lhok Sumawe	4.83 342	P	Pn	03 04 20.2 +0.7	
KULM	Kulim	5.13 25	P	Pn	03 04 20.6 +2.3	
KULM	Kulim	5.13 25	P	Pn	03 04 25.6 +1.9	
MYKOM	Kota Tinggi	5.51 78	P	Pn	03 04 30.4 +1.5	
MYKOM	Kota Tinggi	5.51 78	P	Pn	03 04 31.0 +2.1	
BSI	Sanda Akih	5.97 327	P	Pn	03 04 32.1 -0.6	
KSI	Kapahiang	5.92 136	P	Pn	03 04 34.6 +0.1	
MNAI	Manna	6.68 138	P	Pn	03 04 45.3 +0.4	
MNAI	Manna	6.68 138	P	Pn	03 04 45.4 +0.5	
MNAI	Manna	6.68 138	P	Pn	03 04 45.0 +0.1	
PMBI	Palemang	7.22 119	P	Pn	03 04 52.0 -0.4	
MDSI	Maura Dua	7.64 132	P	Pn	03 04 58.5 +0.5	
LWLI	Liwa	7.91 135	P	Pn	03 05 02.1 +0.2	
SRIT	Nakonsritamara	8.01 8	P	Pn	03 05 03.1 -0.1	
KASI	Kota Agung	8.57 135	P	Pn	03 05 09.7 -1.2	
BLSI	Bandar Lampung	9.01 131	P	Pn	03 05 17.5 +0.6	
TPI	Tanjungpandan	9.78 110	P	Pn	03 05 30.1 +2.7	
SBJI	Serang	10.17 131	P	Pn	03 05 31.6 -1.1	
CGJI	Cibinong	10.18 135	P	Pn	03 05 30.1 -2.8	
TNG	Tangerang	10.59 130	P	Pn	03 05 38.0 -0.5	
TNG	Tangerang	10.59 130	P	Pn	03 05 39.4 +0.9	
SKJI	Sukabumi	11.07 133	P	Pn	03 05 42.9 -2.2	
CNJI	Cibinong	11.69 132	P	Pn	03 05 49.9 -3.7	
LEM	Lembang	11.75 129	P	Pn	03 05 53.9 -0.6	
LEM	101nm, 0.6s, baz=242, slow=6.4, SNR=22			LR	03 10 44.7	
LEM	comp=Z, 3μm, 20.5s, baz=306, slow=39			LR	03 05 54.1 -0.5	
KSM	Kuching	11.88 86	P	Pn	03 05 58.2 +2.1	
JCJI	Jatiwangi	12.07 126	P	Pn	03 06 00.1 +1.4	
COCO	West Island	12.82 187	Pn	Pn	03 06 08.3 -0.7	
COCO	West Island	12.82 187	P	Pn	03 06 10.6 +1.6	
COCO	West Island	12.82 187	P	Pn	03 06 08.3 -0.7	
CMJI	Cimerak	12.99 130	P	Pn	03 06 06.9 -4.4	
STKI	Sintang	13.03 92	P	Pn	03 06 14.4 +2.6	
SMRI	Semarang	14.17 123	P	Pn	03 06 27.4 0.0	
SMRI	Semarang	14.17 123	P	Pn	03 06 28.0 +0.6	
SMRI	Semarang	14.17 123	P	Pn	03 06 27.6 +0.2	
YOGI	Yogyakarta	14.47 126	P	Pn	03 06 28.8 -2.5	
UGM	Wanagama	14.71 125	P	Pn	03 06 31.1 -3.4	
UGM	Wanagama	14.71 125	P	Pn	03 06 31.9 -2.6	
WOJI	Wonogiri, Jawa	15.00 124	P	Pn	03 06 35.8 -2.4	
DLVI	Lat	15.02 41	P	Pn	03 06 40.3 +1.6	
NGJI	Ngawi	15.02 122	P	Pn	03 06 40.7 -0.1	
TBJI	Tambak Boyo	15.26 119	P	Pn	03 06 42.6 +0.9	
PCJI	Pacitan	15.40 125	P	Pn	03 06 39.3 -4.2	
GRJI	Gresik	15.86 118	P	Pn	03 06 50.0 +0.6	
UBPT	Khong Chiam	16.13 25	P	Pn	03 06 53.0 +0.3	
UBPT	Khong Chiam	16.13 25	I	Iamb	03 06 54.7	
KMMI	Kaliang	17.24 116	P	Pn	03 07 06.4 -0.3	
GMJI	Gumukmas	17.35 121	P	Pn	03 07 07.4 -0.6	
CM31	Chiang Mai Arr	17.74 2	P	Pn	03 07 13.0 -0.1	
CM31	Chiang Mai Arr	17.74 2	P	Pn	03 07 12.2 -0.5	
CMAR	Chiang Mai Arr	17.74 2	P	Pn	03 07 11.4 -1.3	
CMAR	Chiang Mai Arr	17.74 2	P	Pn	03 07 12.0 -0.8	
CMAR	Chiang Mai Arr	17.74 2	I	Iamb	03 07 12.0 -0.8	
CMAR	comp=Z, 37nm, 0.4s			Pn		
JAGI	Jajag, Banyuw	18.06 120	P	P	03 07 14.6 -2.0	
JAGI	Jajag, Banyuw	18.06 120	P	P	03 07 17.5 +0.8	
JAGI	Jajag, Banyuw	18.06 120	P	P	03 07 16.0 -0.6	
CHTO	Chiang Mai	18.09 1	P	P	03 07 15.6 -1.3	
CHTO	Chiang Mai	18.09 1	P	P	03 07 16.0 -0.9	
CHTO	Chiang Mai	18.09 1	P	P	03 07 16.3 -0.6	
CHTO	Chiang Mai	18.09 1	P	P	03 07 15.6 -1.3	
CHTO	comp=Z, 30nm, 0.7s			Pn		
KKM	Kota Kinabalu	18.52 73	P	Pn	03 07 23.1 +0.6	
KKM	Kota Kinabalu	18.52 73	P	Pn	03 07 24.3 +1.8	
BKB	Balikpapan	18.53 96	P	Pn	03 07 23.5 +1.0	
BKB	Balikpapan	18.53 96	I	Iamb	03 07 28.0	
BKB	Balikpapan	18.53 96	P	Pn	03 07 25.3 +2.8	
BKB	Balikpapan	18.53 96	P	Pn	03 07 23.4 +1.0	
SMKI	Samarinda	18.78 93	P	Pn	03 07 26.8 +1.3	
SRBI	Singaraja	18.80 118	P	P	03 07 23.3 -1.5	
PALK	Pallekete	18.90 291	P	Pn	03 07 27.9 +1.0	
PALK	Pallekete	18.90 291	P	Pn	03 07 28.0 +1.0	
PALK	comp=Z, 43nm, 0.7s, baz=106, slow=10.0, SNR=30			S		
PALK	comp=Z, 75nm, 0.6s, baz=344, slow=4.0, SNR=20			S		
PALK	comp=Z, 2μm, 21.1s, baz=104, slow=34			LR	03 13 51.8	
PALK	Pallekete	18.90 291	P	Pn	03 07 28.4 +1.5	
PALK	Pallekete	18.90 291	P	Pn	03 07 27.9 +1.0	
PALK	comp=Z, 50nm, 0.8s			Pn		
MYLDM	Lahad Datu	20.52 77	P	Pn	03 07 45.2 -0.9	
MYLDM	comp=Z, 238nm, 1.1s			Iamb	03 07 48.0	

MYLDM	Lahad Datu	20.52 77	P	Pn	03 07 45.6 -0.5	
TWSI	Taliwang, Sumb	20.57 117	P	P	03 07 43.8 -0.3	
SLVN	Son La	21.27 14	P	P	03 07 51.1 -0.5	
SLVN	Son La	21.27 14	P	P	03 07 51.0 -0.5	
PLAI	Plampang	21.41 116	P	P	03 07 49.1 -4.0	
PLAI	comp=Z, 2μm, comp=Z, 2μm, comp=Z, 124nm, 1.3s			P		
PCI	Palu	21.43 94	P	P	03 07 54.3 +1.0	
QIZ	Qiongzong	21.44 31	P	P	03 07 55.0 +1.7	
QIZ	Qiongzong	21.44 31	PP	Pn	03 08 14.2 -1.1	
QIZ	Qiongzong	21.44 31	S	S	03 11 49.4 +0.8	
QIZ	comp=Z, 53nm, 0.9s			Pmax		
QIZ	comp=Z, 200nm, 1.3s			Pmax		
QIZ	comp=Z, 810nm, 15.9s			LR	LR	
QIZ	comp=Z, 630nm, 15.1s			LR	LR	
MPSI	Mapaga	21.44 91	P	P	03 07 54.4 +1.0	
MPSI	Mapaga	21.44 91	P	P	03 07 57.3 +1.5	
TTSI	Tana Toraja	21.66 100	P	P	03 07 57.6 +0.6	
SPSI	Sidrap Palu	21.78 102	P	P	03 08 00.2 +2.1	
MDRS	Chennai	21.88 305	eP	P	03 07 59.7 +0.4	
KAPI	Kappang	21.99 105	P	Iamb	03 08 08.7	
KAPI	comp=Z, 228nm, 1.1s			Iamb		
KAPI	Kappang	21.99 105	P	P	03 07 59.4 +0.1	
KAPI	comp=Z, 51nm, 0.8s, baz=291, slow=8.4, SNR=16			LR	LR	
KAPI	comp=Z, 2μm, 18.4s, baz=258, slow=41			LR	LR	
KAPI	comp=Z, 51nm, 0.8s			Pmax	Pmax	
KAPI	Kappang	21.99 105	P	P	03 08 00.9 +1.5	
KAPI	Kappang	21.99 105	P	P	03 08 00.4 +1.1	
KAPI	Kappang	21.99 105	eP	P	03 07 58.6 -0.7	
KAPI	comp=Z, 70nm, 0.6s			Pmax	Pmax	
BNSI	Bone	22.20 103	P	P	03 08 01.4 -0.1	
BNSI	comp=Z, 3μm, comp=Z, 4μm, comp=Z, 298nm, 1.4s			P		
TOLIZ	Toilitoli	22.32 89	P	P	03 08 02.8 -0.1	
TOLIZ	comp=Z, 454nm, 1.6s			Iamb	Iamb	
TOLIZ	Toilitoli	22.32 89	P	P	03 08 03.8 +0.8	
KOD	Kodalikamal	22.96 295	eP	P	03 08 11.3 +1.4	
KOD	comp=Z, 102nm, 0.6s			Iamb	Iamb	
BSSI	Bau Bau, Buton	22.99 107	P	P	03 08 07.4 -1.6	
BSSI	comp=Z, 3μm, comp=Z, 288nm, 1.0s			P		
WBSI	Waikabubak, Su	23.20 117	P	P	03 08 07.6 -4.4	
WBSI	comp=Z, 126nm, 1.0s			P		
APSI	Ampaka	23.24 94	P	P	03 08 12.4 0.0	
APSI	comp=Z, 4μm, comp=Z, 368nm, 1.2s			P		
MRSI	Marisa	23.48 90	P	P	03 08 14.1 -0.6	
MRSI	comp=Z, 3μm, comp=Z, 244nm, 0.7s			P		
VJD	Vijayawada	23.62 313	eP	Iamb	03 08 16.9 +1.0	
VJD	comp=Z, 394nm, 1.6s			Iamb	03 08 19.3	
RAGD	RAYAGADA	23.65 322	eP	P	03 08 16.1 -0.1	
AZL	Aizawl	23.66 347	eP	Iamb	03 08 15.8 -0.6	
AZL	comp=Z, 168nm, 0.7s			Iamb	03 08 25.2	
TNCH	TengChong	24.27 0	I	P	03 08 22.5 +0.4	
TNCH	comp=Z, 1μm, 5.3s			P		
TNCH	comp=Z, 2μm, 5.4s			P		
TNCH	comp=Z, 690nm, 1.0s			P		
TNCH	comp=Z, 2μm, 21.6s			P		
LWUI	Luwuk	24.37 94	P	P	03 08 22.6 -0.3	
LWUI	Luwuk	24.37 94	P	P	03 08 22.8 -0.1	
LWUI	Luwuk	24.37 94	P	P	03 08 22.5 -0.3	
LWUI	comp=Z, 6μm, comp=Z, 688nm, 1.2s			P		
IMP	Imphal	24.47 350	eP	Iamb	03 08 23.1 -0.6	
IMP	comp=Z, 400nm, 1.2s			Iamb	03 08 30.2	
KMI	Kunming	24.71 9	I	P	03 08 26.8 +0.7	
KMI	comp=Z, 47nm, 1.2s			S		
KMI	comp=Z, 47nm, 1.2s			Pmax	Pmax	
KMI	comp=Z, 630nm, 5.0s			Pmax	Pmax	
KMI	comp=Z, 2μm, 20.0s			LR	LR	
KMI	comp=Z, 920nm, 16.2s			LR	LR	
KMI	comp=Z, 2μm, 23.5s			LR	LR	
BBSI	Bau Bau	24.83 104	P	P	03 08 27.6 +0.5	
BBSI	comp=Z, 3μm, comp=Z, 387nm, 1.0s			P		
EDFI	Ende, Flores	24.95 112	P	P	03 08 28.2 -0.1	
EDFI	comp=Z, 74nm, 0.8s			P		
KOHI	KOHIMA	25.31 351	eP	Iamb	03 08 30.9 -0.6	
MMRI	Maumere	25.41 112	Iamb	Iamb	03 08 40.9	
MMRI	comp=Z, 246nm, 1.1s			P		

Table with columns: Station, Frequency, Power, and other technical details. Includes stations like LYD, LYN, KDU, etc.

Table with columns: Station, Frequency, Power, and other technical details. Includes stations like ASAR, JAY, KBL, etc.

Table with columns: Station, Frequency, Power, and other technical details. Includes stations like AAA, RBK, UCH, etc.







Table with columns: QSPA, P08K, BNI, BNI, TNA, BTNL, WLF, WLF, WLF, ASK, MEM, BHOU, KMY, BSTI, BCLA, F14K, BGES, C16K, C16K, JOHN, EBRD, DDU, ANM, M11K, UCC, F15K, F15K, SSB, TAM, UNV, C17K, G15K, D17K, RDOG, K13K, K13K, MAHO, B18K, A19K, NOR, J14K, J14K, C18K, E17K, G16K, G16K, H16K, M13K, F17K, F17K, E18K, E18K, C19K, L14K, L14K, G17K, K15K, SNA, SNA, M14K, M14K, F18K, A21K, I17K, I17K, L15K, B20K, D19K, D19K, H17K, H17K, H17K, J16K, J16K, N14K, N14K, G18K, O14K, A22K, M15K, D20K, F19K, F19K, E19K, E19K, JMIC, H18K

Table with columns: H18K, J17K, J17K, E20K, N15K, L16K, L16K, G19K, B21K, C21K, DAG, B22K, O15K, K17K, M16K, M16K, F20K, F20K, L17K, H19K, GCSA, N16K, SDPT, E21K, E21K, J18K, J18K, EKA, S14K, D22K, D22K, M17K, M17K, O16K, H20K, L18K, L18K, F21K, F21K, CHNA, J19K, J19K, P16K, TOR, TTA, TTA, N17K, N17K, C23K, C23K, G21K, I20K, E22K, E22K, O17K, F22K, D23K, D23K, M18K, R16K, J20K, J20K, H21K, H21K, N18K, P17K, G22K, L19K, C24K, K20K, K20K, TOLK, D24K, M19K, M19K, E23K, E23K, L20K, I21K, I21K, COLD, H22K, O18K

Table with columns: O18K, Q17K, N19K, N19K, P18K, G23K, G23K, CHUM, E24K, O19K, O19K, Q18K, M20K, CAST, CAST, D25K, D25K, MLY, PPLA, F24K, H23K, H23K, BPAW, C26K, CHIR, R18K, I23K, Q19K, P19K, N20K, SPCR, SKT, G24K, G24K, O20K, TRF, C27K, E25K, NEA2, H24K, SII, F25K, ESDC, ESDC, ESDC, ESDC, CUT, G25K, SUA, OHAK, MCK, MCK, CAPN, Q20K, POKR, HOM, M22K, KDAK, KDAK, F26K, H25L, ILAR, ILAR, ILAR, ILAR, WAT1, BRSE, HDA, RC01, D27M, PMR, PRP, G26K, D27K, D27K, WAT6, SML, NEEM, NEEM, SEW, KNK, J25K, D28M, M23K



Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Donnelly Dome, Port Wells, Babbe River, etc.

Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Whale Pass, Dease Lake, CRAC, etc.

UPP 02 03:06:36.8±0.1, 67.20N±0.69E, hOkm, ML2.3, Confirmed Induced event
HEL 02 03:06:36.8±0.3, 67.20N±0.58E, hOkm, ML1.4, Suspected explosion
IDC 02 03:06:40.9±1.2, 67.19N±22.34E, hOkm, mbtmp=2.6/3,
ML1.7/3, Error ellipse: s-maj=21.8km s-min=8.0km
az=101.0
ISC 02 03:06:36.4±0.8, 67.17N±0.20E±0.03, hOkm, m32,
±0.88/49, Sweden

Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Dundret, Laukkuluspa, Kuravaara, etc.

Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Olkka, MSF, Fines, etc.

IDC 02 03:17:08.6±1.9, 36.88S±179.19W, hOkm, mb3.6/3,
mbtmp=2.6/3, MS3.5/1, Error ellipse: s-maj=63.7km
s-min=40.7km az=42.0
WEL 02 03:17:13.7±1.0, 37.59S±17.9W, h33km, M3.6/9,
ML4.0/12, MLv3.6/9, Error ellipse: s-maj=11.9km
s-min=6.7km az=177.8, confirmed
ISC 02 03:17:13.1±3.4, 37.55S±17.92W±0.2, h43km±28km, n30,
±0.70/35, mb3.5/3, East of North Island

Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Wmagg, Wmagg, MXZ, etc.

JMA 02 03:18:47.8±0.1, 42.82N±0.2±142.0E±0.3, h36km, MV3.6/38,
ISHIKARI DEPRESSION

JMA Felt J1 at ISHIKARI DEPRESSION
NIED 02 03:18:47.8±0.2, 42.79N±142.00E, h36km, MW3.8, Moment
Tensor Solution, s3 Moment tensor: Scale 10^14Nm;
M2: 61; M3: 1.41; M4: -0.02; M5: 2.44; M6: 1.45; M7: 1.57;
Fault plane solution: Mw: 7.8000±0.14 NP1:
phi=198.00000; lambda=0.00000; tau=146.00000;
phi=316.00000; lambda=869.00000; tau=556.00000;
IDC 02 03:18:50.6±1.3, 42.82N±142.19E, h69km±11km, mb3.4/4,
mbtmp=3.7/18 Error ellipse: s-maj=20.2km s-min=20.2km
az=109.0
ISC 02 03:18:47.6±0.9, 42.79N±0.03±142.01E±0.03, h34km±2km,
n33, ±0.96/44, mb3.7/14, 19D, Hokkaido region

Table with columns: Code, Station Name, Azimuth, Altitude, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like Jiam, Jiam, Jiam, etc.





2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Sankt Quirin, Feichten, Geres Array B, Moosalm, Keskin Array B, etc.

IDC 02 04:23:32.52.1.19.76N:109.26W, h0km, mb3.3/4, mbmp3.5/7, ML3.1/3, MS3.4/1, Error ellipse: s-maj=55.0km s-min=25.1km az=58.0

MEX 02 04:23:42.0.0.5.20.56N:108.47W, h10km, mb3.3/4, MD4.2

ISC 02 04:23:38.3.1.6.19.9N:02.108.8W:0.1, h30km, n19, e208/19, mb3.5/3, Revilla Gigeo Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like SCORRO T, Chamela, Sierra La Lagu, etc.

DNK 02 04:35:27.0.2.8.71.75N:14.84W, h18km, 72km, ML1.4, Jan Mayen Island region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Scoresbysund, Daneborg, Danmarks Havn, etc.

DJA 02 04:37:14.1.0.5.4.5.6.13.8E, h10km, M4.0/6, mb4.2/1, MLV3.9/6

IDC 02 04:37:22.8.3.5.3.14S:137.85E, h40km, 37km, mb3.8/4, mbmp4.1/7, ML3.6/3, Error ellipse: s-maj=22.3km s-min=16.6km az=86.0

ISC 02 04:37:21.5.0.3.23S:07.137.78E:0.05, h35km, n13, e275/17, mb4.3/3, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Sarmi, Serui, Genyem, Biak, Jayapura, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Makanchi Array, South Pole Qui, etc.

IDC 02 04:45:07.0.1.1.29.92N:142.86E, h0km, mb3.9/11, mbmp3.9/13, ML3.2/3, MS2.2/1, Error ellipse: s-maj=34.5km s-min=21.1km az=74.0

JMA 02 04:45:08.0.0.3.30.11N:0.7x14.3E, h48km, MV3.9/13, NEAR TOPIHUA IS

ISC 02 04:45:12.0.0.9.29.96N:0.06:142.6E:0.2, h35km, n22, e193/26, mb3.9/10, Southeast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Chichi jima, Chichijima, etc.

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

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KSRs Korea Array 14.30 305 Pn 0.1km, 0.3s, baz=113, slow=13, SNR=1.1

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Valandovo, Thessaloniki, etc.

IDC 02 04:52:32.5.1.9.7.33S:0.08:107.63E:0.10, h73km, 7km, mb4.4/13, Error ellipse: s-maj=14.1km s-min=10.3km az=110.0

IDC 02 04:52:35.9.0.8.7.53S:107.97E, h92km, 10km, mb3.7/8, mbmp4.0/8, Error ellipse: s-maj=38.8km s-min=18.2km az=50.0

DJA 02 04:52:36.2.0.2.8.5.3.10.8E, h70km, 4km, M4.4/24, mb4.6/6, MLV4.3/24, MWPW5.6/1, MWP5.7/1

ISC 02 04:52:34.9.0.6.7.74S:0.05:107.87E:0.05, h75km, n63, e184/57, mb4.1/11, Jawa

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Includes stations like Valandovo, Thessaloniki, etc.

PLG Polygyros 1.96 94 P 0.1km, 0.5s, baz=138, slow=7.2, SNR=5.0

PLG Polygyros 1.96 94 P 0.1km, 0.5s, baz=138, slow=7.2, SNR=5.0

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PLG Polygyros 1.96 94 P 0.1km, 0.5s, baz=138, slow=7.2, SNR=5.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CIBINONG, LEMBANG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LEMBANG, YOGI, CIBINONG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ABJI, KSI, SRBI, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ASAR, H08S2, H08S3, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ABKAR, VANDA, SBA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like THIG, SMCA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MSVF, ASAR, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like NWAOW, SHEM, etc.

IDC 02 05:08:40.2-1.3, 29.99N:142.64E, h0km, mb3.7/8, mtbmp3.7/11, ML3.2/3, MS2.3/1, Error ellipse: s-maj=32.9km s-min=27.3km az=55.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CBIJ, JCJ, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JHH2, JHU2, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BVAR, FINES, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GIRL, MORW, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like WRA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MUN, NWAOW, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SHLS, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PDGK, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KOTS, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ULHL, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KAPS, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SKHL, etc.

IDC 02 05:08:57.5 1.6 22.11S:122.32E, h0km, mb3.4/1, mtbmp3.8/6, ML4.0/4, MS2.9/3, Error ellipse: s-maj=24.5km s-min=20.4km az=149.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PSAO0, MBWA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GIRL, MORW, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like STG8, SMCA, etc.

IDC 02 05:08:58.6 2.1 76S:122.30E, h0km, mb4.6/10, Western Australia s176/18, Western Australia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PSAO0, MBWA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GIRL, MORW, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like STG8, SMCA, etc.

SOME 02 05:33:18.7, 41.68N:80.15E, h20km NNC 02 05:33:19.4, 0.9, 41.72N:80.08E, h0km, mb3.9, mpv3.8, Error ellipse: s-maj=6.1km s-min=5.0km az=149.0

JMA 02 05:38:25.9, 0.5, 45.5N:150.10E, h30km, MV3.8/15, SKHL 02 05:38:26.0, 0.5, 44.60N:150.10E, h2km, 7km, mb4.1/2

2d 6h

Table with columns: AKK, JAK, JTRK, JTKR, JAB, JOB, JCH, JCH, JAB, JNBK, JNBK, JANG, JTH. Rows contain station names, coordinates, and times.

SJA 02 05:57:02.3-0.7, 21.96Sx68.82W, h131km, 3km, ML3.7, MW3.7

IDC 02 05:57:04.2-8.7, 21.89Sx68.73W, h106km, 63km, mb3.3/4, mbmp3.6/5, Error ellipse: s-maj=71.9km s-min=29.0km

GUC 02 05:57:04.4-0.8, 21.93Sx68.80W, h118km, 9km, ML3.8
ISC 02 05:57:04.0-8.1, 21.96Sx0.03-68.84W, 0.04, h122km, 6km, n40, c157/67, 0.12, Chile-Bolivia border region

Main station list table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations from PB09 to MKAR.

BE0 02 06:12:41.9-1.5, 40.20N; 20.77E, h4km, 6km, ML2.7/1.1
TIR 02 06:12:42.8, 40.42N; 20.73E, h0km, Md3.1/1.1, M2.9/9
PDG 02 06:12:44.3-0.5, 40.49N; 20.78E, h5km, 1km, ML2.9/1.1
Error ellipse: s-maj=0.8km s-min=1.1km az=0.0
ATH 02 06:12:45.3, 40.31N; 20.88E, h9km, 2km, ML2.6/1.2
Manual Solution by A. Fokaefs First location: 2019/06/02
02:16:50, This location: 2020/10/02 07:30:28 ML
Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 0 km

ISC 02 06:12:44.1-1.1, 40.39N; 0.02-20.77E, h1km, 10km, n80, c154/114, 12C-7D, Greece-Albania border region

Main station list table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations from NEST to VRSAC.

GZR Gura Zlata 5.21 16 P Pn 06 14 05.6 +2.4
BZS Buzias 5.26 7 P Pn 06 14 05.5 +1.7

IDC 02 06:25:02.1, 1.56:51Sx25.10W, h0km, mb4.0/4, mbmp4.0/4, Error ellipse: s-maj=44.3km s-min=29.3km az=61.0
NEIC 02 06:25:10.1, 2.0, 56:8S:0.1x25.5W:0.2, h10km, 1km, mb4.5/2.0, Error ellipse: s-maj=25.6km s-min=9.8km az=48.0

ISC 02 06:25:12.1-0.7, 56.64S:0.1x25.5W:0.1, h29km, n30, c159/30, mb4.3/12.3C, South Sandwich Islands region

Main station list table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations from VNA3 to ULHL.

KRNET 02 06:29:45.9, 0.1, 40.18N; 77.17E, h19km, mb3.3
SOME 02 06:29:45.7, 40.17N; 77.05E, h15km
NIC 02 06:29:47.9, 0.6, 40.28N; 77.08E, h0km, mb3.9, mpv3.6, Error ellipse: s-maj=4.1km s-min=2.2km az=164.0

ISC 02 06:29:58.1, 4.4, 40.37N; 0.07-77.09E, 0.03, h10km, n49, c158/73, 17C-17D, Kyrgyzstan-Xinjiang border region

Small station list table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations from NRR to ULHL.



Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like ULHL Ulahoi, BOOM Boomskeye usch, PRZ Przemyslaw, SALK Salom-Alik, ARS Aral, TNSH Tian-Shan, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like MSVF Nonsavu, FUTU Futu, AFI Afiamalu, FUNA Funafuti, DZM Mont Dzumac, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, NOR Nord, KBS Kingsbay, etc.

NEIC 02 06:39:58.9.1.0, 18.5S:0.1x177.6W:0.2, h632km, 18km, mb4.3/19, Error ellipse: s-maj=27.8km s-min=7.0km az=47.0
IDC 02 06:39:58.3.1.7, 18.76S:177.88W, h262km, 19km, mb3.0/12, mbmt4.0/15, Error ellipse: s-maj=18.9km s-min=15.2km az=104.0
ISC 02 06:39:59.7.0.5, 18.57S:0.09:177.74W:0.10, h650km, n61, c1514/62, mb4.0/22, Fiji Islands region



Mn-3.14; Mw-0.39; Mw-3.23; Mo-0.93; Mw-1.79; Mw-2.06;  
 Fault plane solution: M4.30641x1021 N131.48, 48.5000°,  
 538.96000°, 128.98000°. NP2.0.182.43000°. 860.74000°,  
 1.63.04000°. Principal axes: T: Plg63.5680°,  
 Azm46.3670°; N: Plg23.2990°, Azm196.4010°; P:  
 Plg11.7830°, Azm291.5550°;  
 JMA 02 07:51:24.0.2.24:7N.0.7.122.0E.0.5, h63km, 3km,  
 MV3.6/14, TAIWAN REGION  
 TAP 02 07:51:23.9.24.71N.121.94E, h65km, ML4.2, B  
 ISC 02 07:51:23.5.1.2.24:74N.0.03:121.98E.0.02, h70km, 5km,  
 n164, c114/293, 13C-2D, Taiwan

Code	Station Name	A°	AZ°	Phase ID	Time	Res	
Code	Station Name	A°	AZ°	Op	h	s	ISC
EGS		0.11	338	iP	Pn	07 51 34.0	+0.3
EGS				iS	Pn	07 51 41.0	-0.4
NTC	Toucheng	0.17	310	iP	Sn	07 51 34.1	+0.2
NTC				iS	Pn	07 51 41.5	-0.2
TWC	Suao	0.18	222	iP	Pn	07 51 33.9	-0.1
TWC				iS	Pn	07 51 41.0	-0.7
ESAO	Su ao	0.20	217	iP	Pn	07 51 34.1	-0.1
ESAO				iS	Pn	07 51 41.4	-0.5
ILA	ilan	0.21	276	iP	Pn	07 51 34.4	+0.3
ILA				iS	Pn	07 51 42.0	+0.2
NDS	Dongshan	0.26	247	iP	Pn	07 51 33.7	-0.7
NDS				iS	Pn	07 51 42.0	-0.5
TWB1	Santiao Chiao	0.27	211	iP	Pn	07 51 34.4	-0.1
TWB1				iS	Pn	07 51 42.0	-0.5
TWB2	Shuangxi	0.27	329	iP	Pn	07 51 34.0	0.0
TWB2				iS	Pn	07 51 41.9	-0.7
TWE	Neicheng	0.28	266	iP	Pn	07 51 34.7	+0.2
TWE				iS	Pn	07 51 42.5	-0.1
EWUT	Wuta	0.35	212	iP	Pn	07 51 35.4	+0.4
EWUT				iS	Pn	07 51 44.2	+0.8
FUSH	Fushanzhiwuyua	0.35	273	iP	Pn	07 51 35.3	+0.2
FUSH				iS	Pn	07 51 43.0	-0.7
SKX1	Grass Mountain	0.36	345	iP	Pn	07 51 35.1	-0.1
SKX1				iS	Pn	07 51 43.2	-0.6
NWF	Wu-fen Shan	0.37	331	iP	Pn	07 51 35.4	0.0
NWF				iS	Pn	07 51 43.5	-0.5
WFSB	Wu-fen Shan	0.37	331	iP	Pn	07 51 44.1	+0.6
WFSB				iS	Pn	07 51 43.5	-0.4
ENA	Nanau	0.38	215	iP	Pn	07 51 35.5	+0.3
ENA				iS	Pn	07 51 44.6	+0.7
ENIT	Nioudou	0.39	255	iP	Pn	07 51 35.8	+0.5
ENIT				iS	Pn	07 51 44.3	+0.3
EOS2	EOS2	0.40	144	iP	Pn	07 51 35.7	0.0
EOS2				iS	Pn	07 51 45.3	+1.5
TWA	Mucha	0.43	304	iP	Pn	07 51 35.7	0.0
TWA				iS	Pn	07 51 44.0	-0.7
NWL1	Wulai	0.43	275	iP	Pn	07 51 35.9	+0.2
NWL1				iS	Pn	07 51 44.1	+0.6
LATG	Datong	0.46	244	iP	Pn	07 51 36.5	+0.4
LATG				iS	Pn	07 51 45.7	+0.4
EAHA	Aohua	0.46	208	iP	Pn	07 51 36.2	+0.2
EAHA				iS	Pn	07 51 45.4	+0.3
NHHD	Xindian Distri	0.47	298	iP	Pn	07 51 36.2	+0.4
NHHD				iS	Pn	07 51 45.7	+1.2
EHP	Heping Village	0.48	207	iP	Pn	07 51 36.5	+0.4
EHP				iS	Pn	07 51 46.0	+0.5
TAP	Tapei	0.52	305	iP	Pn	07 51 36.4	-0.1
TAP				iS	Pn	07 51 45.7	-0.3
EOS3	EOS3	0.55	146	iP	Pn	07 51 37.5	+0.3
EOS3				iS	Pn	07 51 47.9	+1.6
YHNB	Yeheng	0.55	263	iP	Pn	07 51 36.9	0.0
YHNB				iS	Pn	07 51 47.0	+0.1
YHNB				iS	Pn	07 51 46.7	-0.1
YHNB				iS	Pn	07 51 36.8	-0.2
YHNB				iS	Pn	07 51 45.7	+1.2
ZUZH	Zhuzihu	0.57	317	iP	Pn	07 51 37.2	+0.1
ZUZH				iS	Pn	07 51 46.4	-0.7
ANP	Anpu	0.61	317	iP	Pn	07 51 37.6	+0.2
ANP				iS	Pn	07 51 47.1	-0.7
NNSB	Datong	0.62	240	iP	Pn	07 51 38.1	+0.4
NNSB				iS	Pn	07 51 48.2	+0.3
NNS	Nan Shan	0.63	242	iP	Pn	07 51 38.2	+0.4
NNS				iS	Pn	07 51 48.5	+0.3
TWY	Chenhua	0.63	327	iP	Pn	07 51 38.2	+0.5
TWY				iS	Pn	07 51 48.4	+0.3
NTST	Danshui	0.64	311	iP	Pn	07 51 38.2	+0.5
NTST				iS	Pn	07 51 48.5	+0.3
ETH	Fush Village	0.66	209	iP	Pn	07 51 38.1	+0.1
NACB	Ninganchiao	0.66	212	iP	Pn	07 51 37.6	-0.4
NACB				iS	Pn	07 51 47.8	+0.9
NACB				iS	Pn	07 51 38.2	+0.3
EOS4	EOS4	0.69	153	iP	Pn	07 51 48.5	-0.1
EOS4				iS	Pn	07 51 48.5	-0.1
ETLH	Xiulin Townshi	0.70	220	iP	Pn	07 51 38.7	+0.2
ETLH				iS	Pn	07 51 49.8	+0.3
KSHI	Guanxi Townshi	0.73	273	iP	Pn	07 51 39.4	+0.7
KSHI				iS	Pn	07 51 50.9	+0.9
TWD	Chiawan	0.74	208	iP	Pn	07 51 39.2	+0.3
TWD				iS	Pn	07 51 49.7	-0.6
NCU	National Centr	0.75	288	iP	Pn	07 51 37.3	-1.7
NCU				iS	Pn	07 51 49.1	-1.3
NCUH	Zhongli	0.76	288	iP	Pn	07 51 39.5	+0.4
NCUH				iS	Pn	07 51 51.8	+0.9
NFF	Fufeng Townshi	0.79	262	iP	Pn	07 51 39.3	+0.3
NFF				iS	Pn	07 51 51.2	-0.1
FUSS	Fushou	0.83	234	iP	Pn	07 51 40.6	+0.5
FUSS				iS	Pn	07 51 52.9	+0.4
HWA	Hwalian	0.83	204	iP	Pn	07 51 40.3	+0.3
HWA				iS	Pn	07 51 51.4	+0.9
TWT	Tachien	0.88	237	iP	Pn	07 51 54.3	+0.9
TWT				iS	Pn	07 51 40.9	+0.4
LOB	Emei	0.88	264	iP	Pn	07 51 53.4	+0.2
LOB				iS	Pn	07 51 53.4	+0.4
WHF	Hehuan Shan	0.88	228	iP	Pn	07 51 53.7	-0.1
WHF				iS	Pn	07 51 53.7	-0.1
ETM	Tongmen	0.89	210	iP	Pn	07 51 53.7	-0.1
ETM				iS	Pn	07 51 52.5	-0.9
TDCB	Techi	0.89	237	iP	Pn	07 51 41.6	+0.8
TDCB				iS	Pn	07 51 54.1	+0.5
NSTT	Nanjuang	0.90	263	iP	Pn	07 51 41.1	+0.4
NSTT				iS	Pn	07 51 53.3	-0.2
SBCT	Hsinchu	0.90	273	iP	Pn	07 51 41.1	+0.5
SBCT				iS	Pn	07 51 54.0	+0.4
HSN	Hsinchu	0.92	274	iP	Pn	07 51 40.8	-0.1
HSN				iS	Pn	07 51 53.3	-0.6
JYNG	Yonagunijimaku	0.93	108	iP	Pn	07 51 41.3	+0.3
JYNG				iS	Pn	07 51 53.9	+0.6
TEYL	Yanliu Villag	0.94	202	iP	Pn	07 51 41.2	0.0
TEYL				iS	Pn	07 51 41.8	+0.1
YOJ	Yonaguni jima	0.98	106	iP	Pn	07 51 41.8	+0.1
YOJ				iS	Pn	07 51 41.9	+0.2
YOJ	Yonaguni jima	0.98	106	iP	Pn	07 51 55.3	0.0
YOJ				iS	Pn	07 51 41.8	+0.1
SHUL	Shoufeng	1.02	202	iP	Pn	07 51 42.3	+0.1
SHUL				iS	Pn	07 51 56.7	+0.5
WHP	Taichung City	1.05	244	iP	Pn	07 51 43.9	+1.2
WHP				iS	Pn	07 51 57.9	+1.0
ESL	Shilin	1.05	208	iP	Pn	07 51 41.4	-1.2
ESL				iS	Pn	07 51 55.5	-1.3
OWD	Renai	1.07	223	iP	Pn	07 51 43.2	+0.2
OWD				iS	Pn	07 51 57.3	-0.3
WUSB	Renai	1.08	227	iP	Pn	07 51 43.7	+0.5
WUSB				iS	Pn	07 51 57.7	-0.1
NMLH	Miaoil	1.10	260	iP	Pn	07 51 44.8	+0.8
NMLH				iS	Pn	07 51 58.2	+0.2
TEGC	Jichi Village	1.10	201	iP	Pn	07 51 43.4	+0.1
TEGC				iS	Pn	07 51 58.1	0.0
WARBT	Fenglin Townsh	1.15	208	iP	Pn	07 51 42.5	-1.4
WARBT				iS	Pn	07 51 57.3	-1.9
NSY	Sanyi	1.15	254	iP	Pn	07 51 44.6	+0.7
NSY				iS	Pn	07 52 00.1	+0.9
TWQ1	Liyutan	1.17	251	iP	Pn	07 51 44.8	+0.7
TWQ1				iS	Pn	07 51 59.7	+0.2
EGFH	Guangfu	1.18	205	iP	Pn	07 51 43.4	-0.9
EGFH				iS	Pn	07 51 57.2	-1.9
WCS	Beigang Elemen	1.19	235	iP	Pn	07 51 45.2	+0.9
WCS				iS	Pn	07 52 01.6	+1.6
VWDT	VWDT	1.25	218	iP	Pn	07 51 45.6	+0.5
VWDT				iS	Pn	07 52 01.6	+0.3
WDJ	Dajia District	1.28	252	iP	Pn	07 51 46.3	+0.8
WDJ				iS	Pn	07 52 02.0	+0.7
SMLT	Sun Moon Lake	1.30	229	iP	Pn	07 51 47.0	+1.1
SMLT				iS	Pn	07 52 04.4	+1.6
TYC	Yuchr	1.32	231	iP	Pn	07 51 47.2	+1.1
TYC				iS	Pn	07 52 04.1	+1.1
SSLB	Suanglung	1.33	225	iP	Pn	07 51 47.0	+0.7

az=104.0  
 ISC 02 07:52:03.6.0.7.67:18N.0:02.20:77E.0:03, h0km, n47,  
 c088/72, Sweden

Code	Station Name	A°	AZ°	Phase ID	Time	Res	
Code	Station Name	A°	AZ°	Op	h	s	ISC
DUNU	Dundret	0.10	235	iP	Pn	07 52 03.8	+0.2
DUNU				iS	Pn	07 52 03.8	+0.2
DUNU	Dundret	0.10	235	iP	Pn	07 51 45.8	-1.0
DUNU				iS	Pn	07 52 04.1	-0.1
DUNU				iS	Pn	07 51 48.3	+0.5
DUNU	Dundret	0.10	235	iP	Pn	07 52 06.6	+0.5
DUNU				iS	Pn	07 51 48.5	+0.5
DUNU				iS	Pn	07 51 49.4	+1.4
RATU	Laukkulusta	0.79	326	iP	Pn	07 52 08.4	+2.0
RATU				iS	Pn	07 51 48.8	+0.9
RATU	Laukkulusta	0.79	326	iP	Pn	07 52 07.5	+1.2
RATU				iS	Pn	07 52 07.5	+1.2
KUA	Kurraavaara	0.80	348	iP	Pn	07 51 47.0	-1.2
KUA				iS	Pn	07 51 46.7	-1.5
KUA	Kurraavaara	0.80	348	iP	Pn	07 51 47.9	-0.5
KUA				iS	Pn	07 52 05.9	-1.7
KUA				iS	Pn	07 51 48.9	+0.3
KUA	Kurraavaara	0.80	348	iP	Pn	07 51 47.3	-1.4
KUA				iS	Pn	07 51 51.8	+1.4
ERTU	Ertsjaerv	0.84	137	iP	Pn	07 52 12.6	+1.9
ERTU				iS	Pn	07 51 49.6	-0.6
ERTU	Ertsjaerv	0.84	137	iP	Pn	07 52 08.6	-1.8
ERTU				iS	Pn	07 51 49.6	-0.6
ERTU	Ertsjaerv	0.84	137	iP	Pn	07 52 12.4	+1.5
ERTU				iS	Pn	07 51 50.6	+0.3
SALU	Saltoluokta	0.90	284	iP	Pn	07 52 11.0	+0.3
SALU				iS	Pn	07 51 50.7	+0.1
SALU	Saltoluokta	0.90	284	iP	Pn	07 52 13.7	-0.1
SALU				iS	Pn	07 51 51.4	









SHEM	comp=Z,56nm,0.6s,baz=37,slow=0,SNR=22	S	Sn	09 59 11.8	-8.7	
SHEM	comp=Z,26nm,0.6s,baz=312,slow=21,SNR=8.1	LR	LR	10 02 35.7		
SMY	comp=Z,56nm,19.5s,baz=308,slow=38	LR	LR	09 56 42.0	-0.6	
SMY	Shemya	14.38	60	Pn	09 56 42.0	-0.6
KLR	Kul'dur	14.50	286	P	09 56 48.7	-1.1
KLR	comp=Z,225nm,19.1s,baz=98,slow=11,SNR=18	LR	LR	10 02 31.1		
KLR	Kul'dur	14.50	286	eP	09 56 47.3	-2.5
KLR	comp=Z,11nm,0.8s	LR	LR	10 02 34.9		
NLR	Kul'dur	14.50	286	eP	09 56 44.8	+0.6
USA0B	Ussuriysk Arra	15.21	266	Pn	09 56 53.0	-0.6
USA0B	Ussuriysk Arra	15.21	266	iP	09 56 56.2	-1.6
USRK	Ussuriysk Ar.	15.21	266	P	09 56 53.9	+0.3
USRK	Ussuriysk Ar.	15.21	266	P	09 56 54.4	+0.8
USRK	comp=Z,8.6nm,0.6s,baz=74,slow=10,SNR=12	LR	LR	10 02 34.9		
MJAR	comp=Z,164nm,19.6s,baz=66,slow=36	Pn	Pn	09 56 55.8	-2.2	
MJAR	Matsushiro Arr	15.55	232	P	09 56 57.7	-1.3
MJB9	Matsu-Tunnel	15.55	232	Pn	09 56 56.7	-1.3
MJB9	comp=Z,29nm,1.0s	Iamb	Iamb	09 57 05.1		
MAJO	Matsushiro	15.55	232	Pn	09 56 55.5	-2.5
MAJO	comp=Z,29nm,0.9s	Iamb	Iamb	09 57 04.1		
MAJO	Matsushiro	15.55	232	P	09 56 55.5	-2.5
MAJO	comp=Z,29nm,1.0s	Pmax	Pmax	09 57 01.6	-1.0	
SEY	comp=Z,3.8nm,0.4s,baz=176,slow=13,SNR=23	LR	LR	10 03 10.8		
SEY	Seymchan	15.66	358	P	09 57 01.7	-1.0
SEY	comp=Z,100nm,20.2s,baz=190,slow=38	P	P	09 57 01.7	-1.0	
SEY	Seymchan	15.66	358	eP	09 57 01.7	-1.0
JGF	Kuroka	16.71	231	Pn	09 57 12.4	-0.3
JGF	comp=Z,6.0nm,1.3s	Iamb	Iamb	09 57 17.1		
MDJ	Mudanjiang	16.71	269	Pn	09 57 08.9	-3.8
MDJ	Mudanjiang	16.71	269	P	09 57 16.1	+1.6
MDJ	comp=Z,25nm,0.8s	Pmax	Pmax	10 00 40.7	+1.4	
MDJ	comp=N,120nm,15.1s	LR	LR			
MDJ	comp=E,140nm,17.5s	LR	LR			
MDJ	comp=Z,240nm,16.5s	LR	LR			
HEH	HeiHe	17.30	289	eP	09 57 21.8	+0.9
HEH	comp=Z,21nm,1.1s	Pmax	Pmax			
HEH	comp=N,140nm,17.4s	LR	LR			
HEH	comp=E,210nm,17.6s	LR	LR			
HEH	comp=Z,280nm,18.5s	LR	LR			
ZEA	Zeya	17.72	301	eP	09 57 26.9	+1.4
ZEA	comp=Z,10.0nm,0.9s	Pmax	Pmax			
ZEA	comp=Z,100nm,11.0s	MLR	MLR			
ZEA	Zeya	17.72	301	eP	09 57 25.0	-0.1
CN2	Changchun	19.80	270	P	09 57 47.1	-1.2
CN2	comp=Z,10.0nm,0.6s	Pmax	Pmax			
CN2	comp=N,100nm,14.0s	LR	LR			
CN2	comp=E,200nm,14.0s	LR	LR			
CN2	comp=Z,200nm,16.0s	LR	LR			
YAK	Yakutsk	19.93	326	LR	10 05 16.6	
YAK	comp=Z,110nm,21.3s,baz=124,slow=36	LR	LR			
YAK	Yakutsk	19.93	326	eP	09 57 50.8	-0.8
YAK	comp=Z,21nm,1.0s	Pmax	Pmax	10 01 34.0	-0.5	
YAK	comp=E,7.0nm,1.5s	Pmax	Pmax			
YAK	comp=N,4.0nm,1.1s	smx	smx			
YAK	comp=E,46nm,3.5s	smx	smx			
YAK	comp=N,44nm,3.2s	smx	smx			
KSR9	Korea Array	21.12	251	P	09 58 03.5	+0.9
KSR9	comp=N,12nm,0.9s,baz=53,slow=10,SNR=20	P	P	10 02 07.8	+0.6	
KSR9	comp=N,0.8nm,0.8s,baz=53,slow=1.5,SNR=4.3	PcP	PcP	10 02 05.8	+0.6	
KSR9	comp=N,71nm,20.9s,baz=155,slow=33	LR	LR	10 05 02.8		
KS19	Wonju Array Si	21.12	252	P	09 58 03.2	+0.4
KSAR	Wonju Array Be	21.15	251	P	09 58 02.1	-0.9
KSAR	Wonju Array Be	21.15	251	P	09 58 02.1	-0.9
BILL	Bilibino	21.80	13	P	09 58 10.1	+0.3
BILL	Bilibino	21.80	13	eP	09 58 08.4	-1.4
BILL	comp=Z,2.0nm,0.6s	Pmax	Pmax			
INCN	Inchon	21.94	253	P	09 58 11.3	-0.2
INCN	comp=Z,26nm,0.8s	Iamb	Iamb	09 58 14.9		
INCN	Inchon	21.94	253	P	09 58 11.3	-0.2
INCN	comp=Z,26nm,0.8s	Pmax	Pmax			
SPIA	Saint Paul Isl	24.10	52	P	09 58 34.4	+1.4
P08K	Saint George I	24.41	54	P	09 58 36.3	+0.5
P08K	Saint George I	24.41	54	P	09 58 37.0	+1.2
GAMB	Gambell	25.27	37	P	09 58 43.9	+0.3
UNV	Unalaska Valle	26.05	61	P	09 58 52.3	+1.2
XLT	XILinHaoTe	26.12	276	eP	09 58 50.9	-0.7
XLT	comp=Z,14nm,0.8s	smx	smx	10 04 27.2		
XLT	comp=N,10.0nm,13.8s	LR	LR			
XLT	comp=E,100nm,13.9s	LR	LR			
XLT	comp=Z,44nm,8.2s	LR	LR			
TIXI	Tiksi	26.97	343	LR	10 09 49.7	
TIXI	comp=Z,74nm,21.2s,baz=178,slow=37	LR	LR			
TIXI	Tiksi	26.97	343	iP	09 58 57.0	-1.8
TIXI	comp=Z,10nm,1.1s	Pmax	Pmax			
TNA	Tim City	27.48	34	P	09 59 03.3	-0.1
K13K	Kusilvak Mount	27.77	43	P	09 59 06.5	+0.4
F14K	Arctic Creek	28.06	35	P	09 59 08.7	+0.1
M13K	Dall Lake	28.13	46	P	09 59 10.4	+1.2
ANM	Norne	28.14	37	P	09 59 09.6	+0.2
J14K	Nanvaranak Lak	28.45	41	P	09 59 12.9	+0.8
L14K	Kuka Creek	28.59	44	P	09 59 14.5	+1.1
L14K	Kuka Creek	28.59	44	P	09 59 14.6	+1.3
F15K	North Star Dit	28.80	35	P	09 59 15.2	0.0
G15K	Niukluk	28.82	37	P	09 59 15.3	-0.1
M14K	Bethel	28.85	46	P	09 59 17.7	+2.0
M14K	comp=Z,10nm,1.1s	Iamb	Iamb	09 59 40.1		
M14K	Bethel	28.85	46	P	09 59 16.2	+0.5
N14K	Kuskokwak Cree	28.89	47	P	09 59 16.8	+0.7
O14K	Tiguykaiuit M	29.05	49	P	09 59 18.6	+1.1
L15K	Ungalak Mounta	29.21	44	P	09 59 20.3	+1.4
K15K	Wolf Creek Mou	29.28	43	P	09 59 20.8	+1.2

H16K	Elim	29.46	38	P	09 59 21.7	+0.6
M15K	Kasigluk River	29.47	46	P	09 59 22.6	+1.5
C16K	Lisburne Hills	29.49	30	P	09 59 21.4	+0.1
G16K	Koyuk River	29.61	36	P	09 59 23.8	+1.4
H11N2	WAKE ISLAND Hy	29.66	153	T	10 31 22.7	
H11N1	WAKE ISLAND Hy	29.67	154	T	10 31 18.4	
H11N3	WAKE ISLAND Hy	29.67	153	T	10 31 25.8	
N15K	Kwethluk River	29.71	47	P	09 59 25.5	+2.1
N15K	Kwethluk River	29.71	47	P	09 59 24.5	+1.1
O15K	Ungalikthiuk R	29.79	49	P	09 59 25.8	+1.8
O15K	comp=Z,12nm,1.3s	Iamb	Iamb	09 59 45.2		
O15K	Ungalikthiuk R	29.79	49	P	09 59 24.7	+0.7
J16K	Anvik River	29.88	41	P	09 59 26.7	+1.9
J16K	Anvik River	29.88	41	P	09 59 25.1	+0.4
I17K	Unalakleet	29.95	40	P	09 59 26.1	+0.7
CHNA	Charnabura Isl	30.02	58	P	09 59 27.3	+1.1
D17K	Noatak River	30.06	32	P	09 59 27.3	+1.0
L16K	Owhat River	30.16	44	P	09 59 27.4	+0.1
L16K	Owhat River	30.16	44	P	09 59 28.3	+1.0
NJ2	Nanjing	30.31	252	eP	09 59 29.4	+0.5
NJ2	comp=Z,8.0nm,0.5s	Pmax	Pmax			
C17K	DeLong Mountai	30.31	30	P	09 59 29.5	+1.0
E17K	Hotham Inlet	30.32	33	P	09 59 30.3	+1.7
G17K	Kiwalik Mounta	30.33	36	P	09 59 30.0	+1.2
M16K	Timber Creek	30.34	45	P	09 59 29.7	+0.8
M16K	comp=Z,8.3nm,1.1s	Iamb	Iamb	09 59 31.9		
M16K	Timber Creek	30.34	45	P	09 59 30.7	+1.8
F17K	Baldwin Pennin	30.34	35	P	09 59 29.5	+0.7
N16K	Nishilik Lake	30.39	47	P	09 59 30.8	+1.4
HHC	Hu-ho-hao-te	30.41	273	eP	09 59 31.6	+1.8
H17K	Granite Mounta	30.50	38	P	09 59 31.3	+1.0
J17K	VABM Dome	30.57	41	P	09 59 31.9	+0.9
J17K	VABM Dome	30.57	41	P	09 59 32.4	+1.4
O16K	Kokwak River B	30.69	48	P	09 59 33.0	+1.1
P16K	Nushagak River	30.73	49	P	09 59 33.8	+1.5
H11S1	WAKE ISLAND Hy	30.75	155	T	10 32 43.4	
H11S3	WAKE ISLAND Hy	30.76	155	T	10 32 37.5	
L17K	Donlin	30.76	43	P	09 59 34.1	+1.5
H11S2	WAKE ISLAND Hy	30.77	155	T	10 32 43.3	
K17K	Iditarod	30.83	42	P	09 59 33.3	+0.2
K17K	comp=Z,13nm,1.5s	Iamb	Iamb	09 59 55.6		
K17K	Iditarod	30.83	42	P	09 59 34.3	+1.2
ULN	Ulaanbaatar	30.86	288	iP	09 59 33.0	-0.8
ULN	comp=Z,1.0nm,0.6s	Pmax	Pmax			
E18K	Tukpahaerik M	30.87	33	P	09 59 34.4	+0.9
F18K	Selawik	31.00	35	P	09 59 35.4	+0.8
C18K	Utukok River	31.05	30	P	09 59 35.9	+0.8
M17K	Holitna River	31.10	45	P	09 59 36.1	+0.5
M17K	comp=Z,5.9nm,0.8s	Iamb	Iamb	09 59 38.6		
M17K	Holitna River	31.10	45	P	09 59 37.0	+1.3
B18K	Kokolik River	31.11	29	P	09 59 36.1	+0.6
N17K	Nushagak Hills	31.18	47	P	09 59 37.9	+1.6
H18K	Honhosa River	31.19	38	P	09 59 37.8	+1.5
O17K	Kolganeek Bris	31.20	48	P	09 59 37.8	+1.4
G18K	Tagagawik	31.23	36	P	09 59 37.1	+0.5
G18K	Tagagawik	31.23	36	P	09 59 38.0	+1.3
S0NM	Songino Array	31.29	289	P	09 59 37.6	0.0
S0NM	comp=Z,0.6nm,0.6s,baz=66,slow=9.2,SNR=3.9	PcP	PcP	10 02 30.3	-0.5	
S0NM	comp=Z,0.6nm,0.7s,baz=80,slow=3.2,SNR=4.9	PcP	PcP	10 13 14.9		
L18K	Granite Mounta	31.52	43	P	09 59 40.9	+1.6
L18K	Granite Mounta	31.52	43	P	09 59 40.5	+1.3
P17K	Kvichak River	31.53	49	P	09 59 41.1	+1.7
J18K	Innoko River	31.64	41	P	09 59 41.3	+1.0
GCSA	Galena City Sc	31.74	39	P	09 59 41.9	+0.8
C19K	Lookout Ridge	31.76	30	P	09 59 42.0	+0.7
F19K	Sharuckik Mo	31.78	34	P	09 59 42.9	+1.4
F19K	Shalrueckik Mo	31.78	34	P	09 59 42.6	+1.1
N18K	Kilae Creek	31.82	46	P	09 59 44.1	+2.2
N18K	comp=Z,12nm,1.3s	Iamb	Iamb	10 00 00.3		
N18K	Kilae Creek	31.82	46	P	09 59 43.5	+1.5
Q17K	Contact Creek	31.84	51	P	09 59 43.7	+1.4
M18K	Stony River	31.88	45	P	09 59 43.8	+1.3
TTA	Tatalina	31.90	42	P	09 59 44.0	+1.3
TTA	Tatalina	31.90	42	P	09 59 44.0	+1.3
TTA	comp=Z,3.0nm,0.6s	Pmax	Pmax			
TTA	Tatalina	31.90	42	P	09 59 43.8	+1.1
G19K	Purcell Mounta	31.91	36	P	09 59 43.7	+1.1
G19K	Purcell Mounta	31.91	36	P	09 59 43.3	+0.7
H19K	Roundabout Mou	32.05	37	P	09 59 45.4	+1.6
H19K	comp=Z,8.5nm,0.8s	Iamb	Iamb	10 00 01.0		
H19K	Roundabout Mou	32.05	37	P	09 59 44.9	+1.0
D19K	Kuna River	32.08	31	P	09 59 45.6	+1.5
D19K	comp=Z,12nm,0.8s	Iamb	Iamb	10 00 00.9		
D19K	Kuna River	32.08	31	P	09 59 45.3	+1.1
E19K	Redstone River	32.14	33	P	09 59 46.3	+1.6
E19K	comp=Z,7.2nm,0.8s	Iamb	Iamb	10 00 01.7		
E19K	Redstone River	32.14	33	P	09 59 45.5	+0.9
P18K	Big Mountain,	32.15	49	P	09 59 47.0	+2.2
P18K	comp=Z,7.5nm,0.9s	Iamb	Iamb	09 59 47		

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<b>2d 9h</b>	<b>Chandler</b>	35.09	33	P	P	10 00 11.2 +0.8
<b>E23K</b>	baz=264,SNR=9.9					
<b>MCK</b>	<b>McKinley</b>	35.12	41	P	P	10 00 11.7 +1.1
<b>RND</b>	<b>Reindeer</b>	35.16	41	P	P	10 00 12.4 +1.4
<b>RND</b>	comp=Z,7.9nm,1.2s					
<b>RND</b>	<b>Reindeer</b>	35.16	41	P	P	10 00 12.4 +1.4
<b>TOLK</b>	comp=Z,8.0nm,1.2s					
<b>TOLK</b>	<b>Toolik Lake Re</b>	35.18	32	P	P	10 00 12.9 +1.8
<b>TOLK</b>	<b>Toolik Lake Re</b>	35.18	32	P	P	10 00 11.8 +0.7
<b>WAT1</b>	<b>Susitna Watana</b>	35.31	42	P	P	10 00 13.1 +0.8
<b>KNH</b>	<b>Knik Glacier</b>	35.42	45	P	P	10 00 14.5 +1.2
<b>SML</b>	<b>Sawmill</b>	35.46	44	P	P	10 00 14.8 +1.2
<b>SML</b>	<b>Sawmill</b>	35.46	44	P	P	10 00 14.8 +1.2
<b>SML</b>	comp=Z,4.42nm,1.5s					
<b>SML</b>	<b>Sawmill</b>	35.46	44	P	P	10 00 14.5 +1.0
<b>E24K</b>	<b>Your Creek</b>	35.52	33	P	P	10 00 14.9 +0.8
<b>E24K</b>	<b>Your Creek</b>	35.52	33	P	P	10 00 15.1 +1.0
<b>D24K</b>	<b>Happy Valley</b>	35.52	31	P	P	10 00 15.6 +1.6
<b>D24K</b>	<b>Happy Valley</b>	35.52	31	P	P	10 00 14.9 +0.9
<b>PWL</b>	<b>Port Wells</b>	35.52	46	P	P	10 00 15.0 +1.0
<b>COLA</b>	<b>College</b>	35.60	39	P	P	10 00 16.4 +1.8
<b>COLA</b>	comp=Z,5.2nm,0.7s					
<b>COLA</b>	<b>College</b>	35.60	39	P	P	10 00 16.4 +1.8
<b>COLA</b>	comp=Z,5.0nm,0.7s					
<b>COLA</b>	<b>College</b>	35.60	39	P	P	10 00 15.6 +0.9
<b>H24K</b>	<b>Noodor Dome</b>	35.61	37	P	P	10 00 16.4 +1.5
<b>H24K</b>	comp=Z,5.3nm,1.0s					
<b>H24K</b>	<b>Noodor Dome</b>	35.61	37	P	P	10 00 15.9 +1.0
<b>CCB</b>	<b>Clear Creek Bu</b>	35.62	39	P	P	10 00 16.1 +1.3
<b>C24K</b>	<b>Franklin Bluff</b>	35.64	30	P	P	10 00 16.1 +1.1
<b>WAT6</b>	<b>Susitna Watana</b>	35.69	43	P	P	10 00 16.7 +1.0
<b>F24K</b>	<b>Squaw Lake</b>	35.70	34	P	P	10 00 17.1 +1.6
<b>F24K</b>	comp=Z,4.4nm,0.7s					
<b>F24K</b>	<b>Squaw Lake</b>	35.70	34	P	P	10 00 16.3 +0.7
<b>XAN</b>	<b>Xi'an</b>	35.72	265	P	P	10 00 14.6 -1.5
<b>XAN</b>	comp=Z,10.0nm,0.9s					
<b>M23K</b>	<b>Glacier View</b>	35.74	44	P	P	10 00 17.2 +1.2
<b>POKR</b>	<b>Poker Plat Res</b>	35.78	38	P	P	10 00 18.2 +2.0
<b>POKR</b>	comp=Z,7.4nm,0.8s					
<b>POKR</b>	<b>Poker Plat Res</b>	35.78	38	P	P	10 00 17.6 +1.4
<b>G24K</b>	<b>Hadweenzic Riv</b>	35.81	36	P	P	10 00 18.8 +2.3
<b>G24K</b>	comp=Z,2.8nm,1.1s					
<b>DHY</b>	<b>Denali Highway</b>	35.84	42	P	P	10 00 18.0 +1.1
<b>DHY</b>	comp=Z,7.3nm,1.3s					
<b>DHY</b>	<b>Denali Highway</b>	35.84	42	P	P	10 00 18.3 +1.4
<b>SCM</b>	<b>Sheep Creek Mo</b>	35.93	44	P	P	10 00 19.6 +1.9
<b>SCM</b>	<b>Sheep Creek Mo</b>	35.93	44	P	P	10 00 19.6 +1.9
<b>SCM</b>	comp=Z,1.7nm,1.4s					
<b>SCM</b>	<b>Sheep Creek Mo</b>	35.93	44	P	P	10 00 18.8 +1.1
<b>HDA</b>	<b>Harding Lake</b>	35.99	40	P	P	10 00 19.3 +1.3
<b>HDA</b>	<b>Harding Lake</b>	35.99	40	P	P	10 00 19.2 +1.2
<b>IL31</b>	<b>Eielson Array</b>	36.01	39	P	P	10 00 18.9 +0.7
<b>ILAR</b>	comp=Z,1.5nm,0.8s, baz=259,slow=9.6,SNR=20					
<b>ILAR</b>	<b>Eielson Array</b>	36.01	39	P	P	10 00 18.6 +0.4
<b>ILAR</b>	comp=Z,1.4nm,0.4s, baz=262,slow=5.5,SNR=7.5					
<b>ILAR</b>	<b>Eielson Array</b>	36.01	39	P	P	10 00 34.4 -0.6
<b>ILAR</b>	comp=Z,0.3nm,0.9s, baz=270,slow=3.6,SNR=2.3					
<b>ILAR</b>	<b>Eielson Array</b>	36.01	39	P	P	10 17 45.1
<b>P23K</b>	<b>Montague Island</b>	36.06	47	P	P	10 00 20.1 +1.3
<b>GLI</b>	<b>Glacier Island</b>	36.12	46	P	P	10 00 20.1 +0.9
<b>G25K</b>	<b>Bearman Lake</b>	36.35	36	P	P	10 00 22.0 +0.9
<b>D25K</b>	<b>Kavik River</b>	36.41	31	P	P	10 00 23.1 +1.6
<b>D25K</b>	<b>Kavik River</b>	36.41	31	P	P	10 00 22.7 +1.1
<b>M24K</b>	<b>Tolsona, Glenn</b>	36.45	44	P	P	10 00 22.9 +0.9
<b>H25L</b>	<b>Birch Creek</b>	36.46	37	P	P	10 00 23.0 +1.1
<b>K24K</b>	<b>Donnelly Dome</b>	36.52	41	P	P	10 00 23.5 +0.8
<b>K24K</b>	comp=Z,7.2nm,0.8s					
<b>K24K</b>	<b>Donnelly Dome</b>	36.52	41	P	P	10 00 23.2 +0.6
<b>F25K</b>	<b>Christian River</b>	36.56	34	P	P	10 00 24.4 +1.4
<b>F25K</b>	<b>Christian River</b>	36.56	34	P	P	10 00 23.7 +0.8
<b>PRP</b>	<b>Porcupine Dome</b>	36.58	38	P	P	10 00 24.9 +1.7
<b>PRP</b>	comp=Z,4.5nm,0.7s					
<b>PRP</b>	<b>Porcupine Dome</b>	36.58	38	P	P	10 00 23.7 +0.4
<b>E25K</b>	<b>Arctic Village</b>	36.61	33	P	P	10 00 24.2 +0.9
<b>E25K</b>	comp=Z,12nm,1.2s					
<b>E25K</b>	<b>Arctic Village</b>	36.61	33	P	P	10 00 24.5 +1.1
<b>KLU</b>	<b>Klutina</b>	36.63	45	P	P	10 00 25.4 +1.8
<b>KLU</b>	comp=Z,9.3nm,1.2s					
<b>KLU</b>	<b>Klutina</b>	36.63	45	P	P	10 00 24.6 +1.0
<b>J25K</b>	<b>Salcha River</b>	36.67	39	P	P	10 00 23.9 0.0
<b>J25K</b>	<b>Salcha River</b>	36.67	39	P	P	10 00 25.0 +1.1
<b>Q23K</b>	<b>Middleton Isla</b>	36.67	48	P	P	10 00 25.7 +1.8
<b>FYU</b>	<b>Fort Yukon</b>	36.70	36	P	P	10 00 25.3 +1.3
<b>PAX</b>	<b>Paxson</b>	36.71	42	P	P	10 00 25.2 +0.9
<b>DIV</b>	<b>Divide</b>	36.74	45	P	P	10 00 26.1 +1.6
<b>DIV</b>	comp=Z,6.0nm,0.7s					
<b>EYAK</b>	<b>Cordova Ski Ar</b>	36.82	46	P	P	10 00 26.6 +1.5
<b>HARP</b>	<b>HAARP</b>	36.90	43	P	P	10 00 27.4 +1.5
<b>RIDG</b>	<b>Independent Ri</b>	36.94	41	P	P	10 00 26.5 +0.3
<b>RIDG</b>	comp=Z,8.1nm,1.3s					
<b>RIDG</b>	<b>Independent Ri</b>	36.94	41	P	P	10 00 27.4 +1.2
<b>BMAR</b>	<b>Burnt Mountain</b>	36.97	35	P	P	10 00 27.4 +1.0
<b>C26K</b>	<b>Camden Bay</b>	36.97	30	P	P	10 00 26.9 +0.6
<b>F26K</b>	<b>Sheenjek River</b>	37.14	34	P	P	10 00 28.8 +1.0
<b>N25K</b>	<b>Chitina, Valde</b>	37.24	44	P	P	10 00 30.8 +1.9
<b>G26K</b>	<b>Porcupine Rive</b>	37.27	35	P	P	10 00 29.3 +0.4
<b>G26K</b>	<b>Porcupine Rive</b>	37.27	35	P	P	10 00 30.2 +1.3
<b>SCRK</b>	<b>Sand Creek</b>	37.30	40	P	P	10 00 30.0 +0.7
<b>SCRK</b>	<b>Sand Creek</b>	37.30	40	P	P	10 00 30.3 +0.9
<b>BMRM</b>	<b>Bremner River</b>	37.32	45	P	P	10 00 31.5 +2.0
<b>BMRM</b>	comp=Z,4.4nm,0.8s					
<b>BMRM</b>	<b>Bremner River</b>	37.32	45	P	P	10 00 30.5 +1.0
<b>C27K</b>	<b>Jago River</b>	37.37	31	P	P	10 00 30.5 +0.8

<b>J26L</b>	<b>Joseph Creek</b>	37.45	39	P	P	10 00 31.7 +1.1
<b>KAIM</b>	<b>Kayak Island</b>	37.56	47	P	P	10 00 33.0 +1.6
<b>I26K</b>	<b>Coal Creek Min</b>	37.58	38	P	P	10 00 33.5 +2.0
<b>L26K</b>	<b>Log Cabin Wild</b>	37.67	42	P	P	10 00 33.4 +1.0
<b>M26K</b>	<b>Nabesna, AK</b>	37.90	43	P	P	10 00 37.0 +2.7
<b>M26K</b>	comp=Z,5.3nm,0.9s					
<b>M26K</b>	<b>Nabesna, AK</b>	37.90	43	P	P	10 00 36.3 +1.9
<b>MCAR</b>	<b>McCarthy VSAT</b>	38.02	44	P	P	10 00 36.7 +1.3
<b>LZH</b>	<b>Lanzhou</b>	38.02	271	eP	P	10 00 35.5 -0.3
<b>LZH</b>	comp=Z,2.28nm,0.5s					
<b>LZH</b>	<b>Lanzhou</b>	38.02	271	eP	P	10 00 37.4 +1.1
<b>LZH</b>	comp=N,110nm,16.1s					
<b>LZH</b>	<b>Lanzhou</b>	38.02	271	eP	P	10 00 37.4 +1.1
<b>LZH</b>	comp=E,200nm,17.2s					
<b>LZH</b>	<b>Lanzhou</b>	38.02	271	eP	P	10 00 38.9
<b>LZH</b>	comp=Z,100nm,16.8s					
<b>CRQM</b>	<b>Cirque</b>	38.06	45	P	P	10 00 37.4 +1.5
<b>CRQE</b>	<b>Cirque</b>	38.09	45	P	P	10 00 37.6 +1.6
<b>E27K</b>	<b>Coleen River</b>	38.10	33	P	P	10 00 36.3 +0.3
<b>G27K</b>	<b>Doyon Strip</b>	38.12	36	P	P	10 00 37.4 +1.3
<b>K27K</b>	<b>Chicken</b>	38.14	40	P	P	10 00 37.4 +1.1
<b>K27K</b>	comp=Z,6.0nm,0.9s					
<b>K27K</b>	<b>Chicken</b>	38.14	40	P	P	10 00 38.0 +1.8
<b>H27K</b>	<b>Steamboat Moun</b>	38.20	36	P	P	10 00 38.3 +1.5
<b>H27K</b>	comp=Z,4.7nm,0.7s					
<b>H27K</b>	<b>Steamboat Moun</b>	38.20	36	P	P	10 00 38.4 +1.6
<b>I27K</b>	<b>Kandik River</b>	38.20	38	P	P	10 00 38.5 +1.6
<b>D27M</b>	<b>Malcolm River</b>	38.33	32	P	P	10 00 38.8 +1.0
<b>NR1K</b>	<b>Noril'sk</b>	38.35	329	LR	LR	10 16 45.2
<b>L27K</b>	<b>Beaver Creek,</b>	38.35	42	P	P	10 00 40.7 +2.5
<b>L27K</b>	comp=Z,4.5nm,0.7s					
<b>L27K</b>	<b>Beaver Creek,</b>	38.35	42	P	P	10 00 39.5 +1.4
<b>BCAR</b>	<b>Beaver Creek A</b>	38.37	42	P	P	10 00 40.1 +1.8
<b>M27K</b>	<b>Edge Creek, AK</b>	38.42	43	P	P	10 00 41.3 +2.5
<b>M27K</b>	comp=Z,6.0nm,1.0s					
<b>M27K</b>	<b>Edge Creek, AK</b>	38.42	43	P	P	10 00 40.3 +1.5
<b>GRNC</b>	<b>Granite Creek</b>	38.74	45	P	P	10 00 43.5 +1.9
<b>GRNC</b>	comp=Z,6.9nm,0.8s					
<b>MESA</b>	<b>MESA</b>	38.74	46	P	P	10 00 42.7 +1.1
<b>F28M</b>	<b>Old Crow</b>	38.77	34	P	P	10 00 43.3 +1.7
<b>F28M</b>	comp=Z,5.4nm,0.8s					
<b>F28M</b>	<b>Old Crow</b>	38.77	34	P	P	10 00 42.5 +0.9
<b>E28M</b>	<b>Babbage River</b>	38.85	33	P	P	10 00 42.9 +0.6
<b>BCVY</b>	<b>Beaver Creek</b>	38.88	43	P	P	10 00 43.8 +1.2
<b>CTGY</b>	<b>China Glacier</b>	38.90	45	P	P	10 00 44.1 +1.3
<b>CTGM</b>	<b>China Glacier</b>	38.90	45	P	P	10 00 44.7 +1.9
<b>I28M</b>	<b>Miner Creek</b>	38.91	38	P	P	10 00 44.5 +1.6
<b>I28M</b>	comp=Z,5.1nm,0.6s					
<b>I28M</b>	<b>Miner Creek</b>	38.91	38	P	P	10 00 43.7 +0.8
<b>GTA</b>	<b>Gaotai</b>	39.03	278	eP	P	10 00 45.5 +1.3
<b>GTA</b>	comp=Z,5.0nm,1.0s					
<b>GTA</b>	<b>Gaotai</b>	39.03	278	eP	P	10 02 53.7 +0.2</



2d 10h

h22km:pp-P,1873,r1992/1694,m5.8/182,MS6.2/655,

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists various stations like NIUE, NIUE, NIUE, AFI, AFI, AFI, etc.

Table with columns: PMG, Port Moresby, 39.00 282, P, P, 10 43 58.6 -0.2. Lists various stations like PMG, PMG, PMG, etc.

Table with columns: SOEI, SOEI, SOEI, SOEI, SOEI, SOEI, etc. Lists various stations like SOEI, SOEI, SOEI, etc.

JGF	Kuroka	72.96 320	P	P	10 47 58.8	-2.8
JGF	comp-Z,239nm,1.6s		I	Amb	10 48 07.0	
JGF	Kuroka	72.96 320	P	P	10 48 01.2	-0.4
JGF	Kuroka	72.96 320	P	P	10 48 00.9	-0.7
KIWB	Kanaga Island	73.03 358	P	P	10 47 58.1	-3.5
ADK	Adak	73.05 358	P	P	10 47 57.6	-4.1
ADK	Adak	73.05 358	P	P	10 48 02.8	+1.1
ADK	Adak	73.05 358	P	P	10 47 57.6	-4.1
ADK	Adak	73.05 358	P	P	10 48 00.9	-0.7
MJAR	Matsushiro Arr	73.11 322	P	P	10 48 01.2	-1.3
MJAR	comp-Z,43nm,0.9s,baz=157,slow=5.6,SNR=45		LR	LR	11 16 16.8	
MAJO	Matsushiro	73.11 322	P	P	10 47 59.8	-2.7
MAJO	comp-Z,43nm,0.9s		I	Amb	10 48 07.8	
MAJO	Matsushiro	73.11 322	P	P	10 48 01.6	-0.8
MAJO	Matsushiro	73.11 322	P	P	10 48 00.7	-1.7
MAJO	comp-Z,145nm,1.4s		pmx	pmx		
MAJO	Matsushiro	73.11 322	P	P	10 48 01.8	-0.7
MJB9	Matsu-Tunnel	73.12 322	P	P	10 47 59.8	-2.7
MJB9	comp-Z,210nm,1.5s		I	Amb	10 48 08.7	
WOJI	Wononi, Jawa	73.12 268	P	P	10 48 07.5	+4.5
WOJI	comp-Z,6umcomp-Z,205nm,2.0s		P	P		
ATKA	Atka Island	73.34 0	P	P	10 48 00.1	-3.3
ATKA	Atka Island	73.34 0	P	P	10 48 02.6	-0.7
KKM	Kota Kinabatu	73.42 283	P	P	10 48 02.6	-2.3
KKM	comp-Z,260nm,1.7s		I	Amb	10 48 10.2	
KKM	Kota Kinabatu	73.42 283	P	P	10 48 06.2	+1.3
KKM	Kota Kinabatu	73.42 283	P	P	10 48 03.0	-1.9
JOW	Kunigami	73.51 308	P	P	10 48 02.4	-2.6
JOW	comp-Z,41nm,0.5s,baz=195,slow=20,SNR=5.2		LR	LR	11 16 05.0	
JOW	comp-Z,4um,21.4s,baz=132,slow=32		LR	LR	11 16 05.0	
JOW	comp-Z,41nm,0.5s		LR	LR	11 16 05.0	
SMRI	Semarang	73.84 269	P	P	10 48 05.8	+0.8
SMRI	Semarang	73.84 269	P	P	10 48 08.9	+1.6
SMRI	Semarang	73.84 269	P	P	10 48 09.6	+2.3
JMN	Monobe	73.86 317	P	P	10 48 07.2	+0.3
JMN	Monobe	73.86 317	P	P	10 48 07.1	+0.2
JSD	Sado	74.12 323	P	P	10 48 08.1	-0.2
JSD	Sado	74.12 323	P	P	10 48 07.5	-0.9
ERM	Ermo	74.44 328	I	Amb	10 16 12.5	
ERM	comp-Z,12um,20.0s		P	P		
ERM	Ermo	74.44 328	P	P	10 48 12.6	+2.6
ERM	Ermo	74.44 328	P	P	10 48 05.6	-4.4
ERM	comp-Z,183nm,3.0s		MLR	MLR		
JEM	Ermo	74.44 328	P	P	10 48 12.3	+2.3
SHEM	Shemya Is, Ala	74.57 353	P	P	10 48 09.3	-1.2
SHEM	comp-Z,244nm,1.1s,baz=58,slow=2.5,SNR=9.7		LR	LR	11 16 58.1	
SHEM	comp-Z,9um,19.9s,baz=168,slow=33		LR	LR	11 16 58.1	
SHEM	comp-Z,244nm,1.1s		LR	LR	11 16 58.1	
SMY	Shemya	74.57 353	P	P	10 48 07.7	-2.8
SMY	comp-Z,222nm,1.1s		I	Amb	10 48 15.0	
SMY	comp-Z,12um,20.0s		I	Amb	10 48 15.0	
SMY	Shemya	74.57 353	P	P	10 48 09.7	-0.9
SMY	Shemya	74.57 353	P	P	10 48 07.7	-2.8
SMY	comp-Z,222nm,1.1s		pmx	pmx		
SMY	Shemya	74.57 353	P	P	10 48 09.6	-0.9
JTM	Tenmabayashi	74.57 326	P	P	10 48 08.0	-2.9
JTM	Tenmabayashi	74.57 326	P	P	10 48 13.0	+2.1
YUK	Yuzh-Kuril'sk	74.73 311	e	P	10 48 12.1	+0.4
YUK	Yuzh-Kuril'sk	74.73 311	e	P	10 50 54.3	
YUK	Yuzh-Kuril'sk	74.73 311	e	P	10 50 54.3	
YUK	Yuzh-Kuril'sk	74.73 311	e	P	10 52 39.9	
YUK	Yuzh-Kuril'sk	74.73 311	e	P	11 02 31.8	-3.3
YUK	comp-Z,412nm,3.2s		pmx	pmx		
KUR	Kuril'sk	74.81 333	P	P	10 48 14.0	+1.9
KUR	comp-Z,189nm,1.2s		I	Amb	10 57 53.0	+5.4
KUR	comp-Z,3um,5.5s		pmx	pmx		
KUR	comp-Z,268nm,1.1s		MLR	MLR		
KUR	comp-N,5um,17.0s		MLR	MLR		
UNV	Unalaska Valle	75.28 5	P	P	10 48 16.5	+1.9
UNV	Unalaska Valle	75.28 5	P	P	10 48 13.1	-1.5
UNV	Unalaska Valle	75.28 5	P	P	10 48 13.1	-1.5
UNV	Unalaska Valle	75.28 5	P	P	10 48 13.1	-1.5
UNV	Unalaska Valle	75.28 5	P	P	10 48 13.1	-1.5
JNU	Nakatsue	75.42 315	P	P	10 48 13.9	-2.1
JNU	comp-Z,212nm,1.3s		I	Amb	10 48 21.5	
JNU	Nakatsue	75.42 315	P	P	10 48 15.8	-0.3
JNU	comp-Z,2um,21.2s,baz=116,slow=32		LR	LR	11 16 54.7	
JNU	comp-Z,57nm,0.9s		LR	LR	11 16 54.7	
JNU	Nakatsue	75.42 315	P	P	10 48 16.1	+0.1
STKI	Sintang	75.43 276	P	P	10 48 18.7	+2.2
CMJ	Cimerak	75.44 267	P	P	10 48 18.2	+1.6
AKUT	Akutan	75.63 5	I	Amb	11 21 42.7	
AKUT	comp-Z,4umcomp-Z,4umcomp-Z,183nm,1.1s		I	Amb	11 21 42.7	
LVA	Lava Point	75.63 5	I	Amb	11 21 33.8	
LVA	comp-Z,10um,20.0s		I	Amb	11 21 33.8	
JCJI	Jatiwangi	76.06 268	P	P	10 48 24.4	+4.3
ASAJ	Asahikawa	76.29 330	P	P	10 48 21.1	+0.4
ASAJ	comp-Z,285nm,0.9s,baz=179,slow=7.0,SNR=13		LR	LR	11 16 42.2	
ASAJ	comp-Z,6um,21.3s,baz=156,slow=32		LR	LR	11 16 42.2	
BBJI	Bungbung	76.30 267	P	P	10 48 23.3	+1.8
SAO	San Andreas Ge	76.36 41	I	Amb	11 18 31.5	
SAO	San Andreas Ge	76.36 41	I	Amb	11 18 31.5	
PMPB	Monarch Peak	76.40 42	I	Amb	10 48 23.0	+1.8
PMPB	comp-Z,19um,19.0s		I	Amb	11 16 05.8	
SMAI	San Martin Ant	76.44 158	P	P	10 48 19.3	-2.0
SMAI	comp-Z,170nm,1.1s		I	Amb	10 48 26.7	
SMAI	comp-Z,8um,18.0s		I	Amb	11 23 15.9	
SKR	Severo-Kuril's	76.45 341	e	P	10 48 22.0	+0.7
SKR	Severo-Kuril's	76.45 341	e	P	10 51 07.1	
SKR	Severo-Kuril's	76.45 341	e	P	10 58 06.1	+0.7
BCW	Bitter Crk WRG	76.48 44	I	Amb	11 16 01.8	
BCW	comp-Z,2um,5.8s		I	Amb	11 16 01.8	
BBGB	Big Mountain B	76.49 42	I	Amb	11 16 38.0	
BBGB	comp-Z,9um,20.0s		I	Amb	11 16 38.0	
LEM	Lembang	76.55 268	LR	LR	11 21 52.3	
LEM	comp-Z,4um,20.3s,baz=125,slow=36		LR	LR	11 21 52.3	
CBX	Cerro Bola	76.72 47	I	Amb	11 20 35.1	
CBX	comp-Z,19um,19.0s		I	Amb	11 20 35.1	
VTX	Valle De La Tr	76.79 48	I	Amb	11 15 10.9	
VTX	comp-Z,9um,20.0s		I	Amb	11 15 10.9	
PASC	Pasadena Art C	76.81 45	P	P	10 48 19.4	-4.5
PASC	comp-Z,8um,18.0s		I	Amb	11 20 02.4	
TWGBT	Beinan	76.88 301	P	P	10 48 25.0	+0.5
TWGBT	Beinan	76.88 301	P	P	10 48 22.3	-2.2
GDXM	Geyzers	76.89 39	P	P	10 48 19.4	-4.9
GDXM	comp-Z,12um,18.0s		I	Amb	11 19 46.6	
LPIG	La Paz	76.89 57	LR	LR	11 15 32.8	
LPIG	comp-Z,18um,19.3s,baz=228,slow=30		LR	LR	11 15 32.8	
TKX	Tecate	76.91 47	I	Amb	11 28 08.0	
TKX	comp-Z,12um,21.0s		I	Amb	11 28 08.0	
SLBS	Sierra La Lagu	76.97 58	P	P	10 48 20.8	-4.3
SLBS	comp-Z,129nm,1.9s		I	Amb	10 48 30.5	
CNBA	Chernabura Isl	76.99 9	I	Amb	11 19 02.7	

YULB	Yu-li	76.99 302	P	P	10 48 27.8	+2.7
YULB	Chernabura Isl	77.00 9	P	P	10 48 27.2	+2.8
YULB	Chernabura Isl	77.00 9	P	P	10 48 23.0	-1.4
CHNA	China		S	S	10 58 10.2	-1.1
KCPM	Cahto Peak	77.02 38	I	Amb	11 15 42.1	
KCPM	comp-Z,13um,20.0s		I	Amb	11 15 42.1	
ESJX	Sierra Juarez	77.03 48	I	Amb	11 20 37.3	
ESJX	comp-Z,7um,18.0s		I	Amb	11 20 37.3	
KSM	Kuching	77.04 277	P	P	10 48 24.1	-1.5
KSM	comp-Z,143nm,1.2s		I	Amb	10 48 32.8	
KSM	Kuching	77.04 277	P	P	10 48 27.6	+2.0
KSM	Kuching	77.04 277	P	P	10 48 25.5	-0.2
KSM	Christmas Isla	77.11 264	P	P	10 48 28.4	+2.4
XMI	Christmas Isla	77.11 264	P	P	10 48 28.4	-1.3
XMI	Christmas Isla	77.11 264	P	P	10 48 23.5	-2.5
NACB	Ninganchiao	77.15 303	I	Amb	10 48 31.3	
NACB	comp-Z,178nm,1.2s		I	Amb	10 48 31.3	
NACB	Ninganchiao	77.15 303	P	P	10 48 26.3	+0.3
NACB	Mount Pierce	77.20 37	I	Amb	11 15 17.1	
NACB	comp-Z,13um,20.0s		I	Amb	11 15 17.1	
SFX	San Felipe	77.24 49	I	Amb	11 15 43.9	
SFX	comp-Z,13um,20.0s		I	Amb	11 15 43.9	
JTM	Tsushima	77.25 315	P	P	10 48 28.8	+2.5
JTM	KMRM	77.25 317	I	Amb	11 15 19.4	
JTM	KMRM	77.25 317	I	Amb	11 15 19.4	
SDPT	Sand Point	77.39 8	I	Amb	11 19 34.9	
SDPT	comp-Z,10um,20.0s		I	Amb	11 19 34.9	
SDPT	Sand Point	77.39 8	P	P	10 48 29.2	+2.7
SDPT	Sand Point	77.39 8	P	P	10 48 25.1	-1.5
SDPT	Sand Point	77.39 8	P	P	10 48 29.2	+2.7
SDPT	Sand Point	77.39 8	P	P	10 48 25.1	-1.5
SDPT	comp-Z,193		S	S	10 58 13.4	-2.2
SSLB	Suanguang	77.46 302	P	P	10 48 24.6	-3.2
SSLB	Suanguang	77.46 302	P	P	10 48 29.8	+2.0
TPUB	Ta-pu	77.48 301	I	Amb	10 48 26.4	-1.4
TPUB	comp-Z,143nm,1.1s		I	Amb	10 48 31.9	
TPUB	Ta-pu	77.48 301	P	P	10 48 27.5	-0.4
CCAC	Calif City Air	77.50 44	I	Amb	11 15 56.1	
CCAC	comp-Z,8um,19.0s		I	Amb	11 15 56.1	
ISA	Isabella, Lake	77.53 44	I	Amb	11 16 54.5	
ISA	Isabella, Lake	77.53 44	I	Amb	11 16 54.5	
JCC	Jacoby Creek	77.53 37	I	Amb	11 15 35.7	
JCC	comp-Z,16um,19.0s		I	Amb	11 15 35.7	
S12K	Black Hills	77.54 7	I	Amb	11 19 44.2	
S12K	Black Hills	77.54 7	I	Amb	11 19 44.2	
S12K	Black Hills	77.54 7	P	P	10 48 26.0	-1.5
S12K	Black Hills	77.54 7	P	P	10 48 26.0	-1.5
S12K	Black Hills	77.54 7	P	P	10 58 17.2	-0.1
YHNB	Yeheng	77.58 303	P	P	10 48 30.9	+2.4
YHNB	comp-Z,6um,19.0s		I	Amb	10 48 30.9	
PFO	Pinyon Flats O	77.62 46	LR	LR	11 15 27.5	
PFO	comp-Z,3um,20.2s,baz=238,slow=30		LR	LR	11 15 27.5	
PFO	Pinyon Flats O	77.62 46	eP	P	10 48 29.3	+0.7
PFO	Pinyon Flats O	77.62 46	eP	P	10 48 29.3	+0.7
PFO	comp-Z,59nm,1.1s		pmx	pmx		
TATO	Taipei	77.64 303	P	P	10 48 29.7	+1.0
KHMM	Horse Mountain	77.74 37	I	Amb	10 48 23.2	-5.9
KHMM	comp-Z,87nm,1.0s		I	Amb	10 48 34.5	
KHMM	comp-Z,13um,20.0s		I	Amb	11 15 34.1	
KRPM	Rodgers	77.77 36	I	Amb	11 17 30.9	
KRPM	comp-Z,12um,20.0s		I	Amb	11 17 30.9	
O02D	Mt. Diablo Mer	77.80 38	I	Amb	11 15 59.8	
O02D	comp-Z,12um,20.0s		I	Amb	11 15 59.8	
CMB	Columbia Colle	77.82 41	I	Amb	11 17 40.2	
CMB	comp-Z,9um,19.0s		I	Amb	11 17 40.2	

2d 10h

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like 014K Tigykuaiwet M, 014K Tigykuaiwet M, 014K Tigykuaiwet M, etc.

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Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like N16K baz=194,SNR=51, X18A Snowflake, P19K Oil Pt, etc.

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Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like Q23K Middleton Isla, Q23K Middleton Isla, DUG Dugway, BMO Blue Mountains, etc.



Table with columns: Call Sign, Frequency, Power, Mode, and various performance metrics. Includes stations like M20K Styx River, SUA Susitna One, L19K White Mountain, etc.

Table with columns: Call Sign, Frequency, Power, Mode, and various performance metrics. Includes stations like BNX comp=Z,8µm,20.6s, LLLB comp=Z,14µm,19.5s, ANMO Albuquerque, etc.

Table with columns: Call Sign, Frequency, Power, Mode, and various performance metrics. Includes stations like K20K comp=Z,8µm,20.0s, K20K Telida, ANM Nome, etc.

















SEY SEY	comp=Z,0.1nm,0.3s,baz=173,slow=9.7,SNR=7.2	19.18	41	eP	P	max	11 25 22.5	-2.2
YAK YAK	comp=Z,5.0nm,1.0s	21.50	335	P	P		11 25 48.1	-1.7
YAK YAK	comp=Z,16m,0.4s,baz=307,slow=3.7,SNR=4.8	21.50	335	eP	S	max	11 25 46.7	-3.1
YAK YAK	comp=Z,16m,0.4s	21.50	335	eS	S	max	11 29 43.2	-2.5
YAK	comp=Z,20nm,1.0s					max		
YAK	comp=N,4.0nm,1.1s					max		
YAK	comp=E,5.0nm,1.1s					max		
YAK	comp=Z,37nm,13.4s					max		
XLT XLT	XiLinHaoTe	23.80	282	eP	P	max	11 26 12.7	-1.1
BILL H11N2	Bilibino	25.84	151	eP	P	T	11 26 34.8	+2.8
H11N2	WAKE ISLAND Hy	28.26	143	T	T		11 58 00.5	
H11N1	WAKE ISLAND Hy	28.27	143	T	T		11 58 03.6	
H11N3	WAKE ISLAND Hy	28.28	143	T	T		11 58 12.4	
H11S1	WAKE ISLAND Hy	29.26	144	T	T		11 59 11.7	
H11S3	WAKE ISLAND Hy	29.27	144	T	T		11 59 11.7	
H11S2	WAKE ISLAND Hy	29.28	144	T	T		11 59 11.7	
ULN ULN	Ulaanbaatar	29.36	293	P	P		11 27 03.5	-0.4
ULN ULN	Ulaanbaatar	29.36	293	iP	P	max	11 27 04.4	+0.6
ULN ULN	Ulaanbaatar	29.36	293	eP	P		11 27 04.5	+0.6
TIXI TIXI	Tiksi	29.55	347	eP	P	max	11 27 04.7	-0.5
TIXI	Tiksi	29.55	347	eP	P		11 27 04.7	-0.5
SOMM SOMM	Songino Array	29.80	293	P	P		11 27 08.1	+0.3
SOMM SOMM	Songino Array	29.80	293	P	P		11 27 08.3	+0.5
O15K L16K	Ungalikthiuk R	34.24	45	P	P		11 27 45.7	-0.8
M16K M16K	Ohwat River	34.65	41	P	P		11 27 48.9	-1.0
LZH LZH	Timber Creek	34.82	42	P	P		11 27 52.1	+0.7
M17K M17K	Lanzhou	35.26	273	eP	P		11 27 56.9	+1.2
C19K D19K	Holtina River	35.59	42	P	P		11 27 58.2	+0.2
D19K D19K	Holtina River	35.59	42	P	P		11 28 34.5	
H19K H19K	Lookout Ridge	36.16	28	P	P		11 28 03.4	+0.4
E19K E19K	Kuna River	36.51	30	P	P		11 28 05.1	+0.8
GTA GTA	Goat'ai	36.74	280	eP	P	max	11 28 08.0	
D20K D20K	Roundabout Mou	36.53	35	P	P		11 28 06.4	+0.4
J20K B21K	Redstone River	36.59	31	P	P		11 28 07.3	+0.8
B21K B21K	Redstone River	36.59	31	P	P		11 28 19.4	
D22K D22K	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
E22K E22K	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
C23K C23K	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
SEW SEW	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
TOLK TOLK	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
SML COLA	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
COLA COLA	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
ILAR	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
D25K D25K	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
M24K M24K	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
C27K C27K	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
PZH PZH	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
ZALV	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
CRQM CRQM	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
L27K GRNC	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
GRNC GRNC	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
I28M I30M	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
I30M I30M	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
HYT HYT	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
MK31 MKAR	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
KURK KURK	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
KURK KURK	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
KURB KURB	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
CMAR	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
BVAR BRVK	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
BRVK BRVK	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
EVN AAK	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
AAK AAK	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
AAK KSH	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
KSH KSH	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7
KSH KSH	Goat'ai	36.74	280	eP	P	max	11 28 09.5	+1.1
KSH KSH	Goat'ai	36.74	280	eP	P	max	11 28 21.0	+2.7

YKA YKA	Yellowknife Ar	54.86	34	P	P		11 30 30.1	-0.5
YKA YKA	Yellowknife Ar	54.86	34	eP	P	max	11 30 30.4	-0.2
SPITS SPITS	Spitsbergen Ar	54.94	349	P	P		11 30 30.3	-0.7
KK31 KK31	Karatay Array	54.97	299	I	P	I	11 30 32.3	+0.6
KK31 KK31	Karatay Array	54.97	299	P	P	max	11 30 32.3	+0.6
KKAR KKAR	Karatay Array	54.97	299	P	P		11 30 32.0	+0.2
KKAR KKAR	Karatay Array	54.97	299	I	P	I	11 30 32.3	+0.6
KKAR KKAR	Karatay Array	54.97	299	P	P	max	11 30 32.3	+0.6
ARTI ARTI	Arti	55.37	317	eP	P		11 30 33.6	-0.8
ARTI ARTI	Arti	55.37	317	eP	P		11 30 33.6	-0.8
ARTI ARTI	Arti	55.37	317	eP	P		11 30 33.6	-0.8
AB31 ABKAR	Abkulk array	58.14	310	P	P		11 30 54.4	+0.2
ARCES ARCES	ARCCESS Array B	59.64	340	P	P		11 30 54.4	+0.2
ILON KLMR	Igloolik Nuna	61.00	18	P	P		11 31 13.1	-0.5
BELG BELG	Belogorov	62.82	318	eP	P	max	11 31 12.5	-1.9
SUMG SUMG	Summit	63.72	3	P	P		11 31 32.4	+0.3
SUMG SUMG	Summit	63.72	3	P	P		11 31 32.4	+0.3
WRA WRA	Warramunga Arr	64.96	195	P	P		11 31 41.8	+1.5
FINES FINES	FINESS Array B	65.43	334	P	P		11 31 42.4	-0.6
FINES FINES	FINESS Array B	65.43	334	P	P		11 31 42.5	-0.4
NVAR NVAR	Mina Array Be	66.24	59	P	P		11 31 48.6	-0.3
ASAR ASAR	Alice Springs	68.67	195	P	P		11 32 06.0	+2.0
ASAR PDAR	Pinedale Array	68.67	51	P	P		11 32 06.0	+2.0
NC40S NB2	NORSAR Array S	69.82	340	P	P		11 32 10.7	0.0
NB2 NOA	NORSAR Subarra	70.01	340	P	P		11 32 11.3	-0.6
NOA NOA	NORSAR Subarra	70.01	340	P	P		11 32 10.7	-1.2
HFS HFS	Hagfors	70.14	338	P	P		11 32 11.6	-0.3
HFS HFS	Hagfors	70.14	338	P	P		11 32 11.6	-0.3
NORES KIV	NORESS Array B	70.19	339	P	P		11 32 22.8	+0.3
KIV KIV	Kislovodsk	70.78	313	eP	P	max	11 32 22.8	+0.3
KIV KIV	Kislovodsk	70.78	313	eP	P	max	11 32 22.8	+0.3
KIB KIB	Khabaz	70.82	313	eP	P		11 32 18.0	+1.0
SH1A AKASG	Shidzhatmaz	70.94	313	eP	P		11 32 18.1	+1.1
AKASG AKASG	Malin Array Be	72.35	325	iP	P	max	11 32 29.6	+1.9
AKASG AKASG	Malin Array Be	72.35	325	iP	P	max	11 32 29.6	+1.9
AKKB BUR08	Malin Array Si	72.35	325	iP	P	max	11 32 26.2	+0.1
BUR08 BURAR	Bucovina Arr. S	76.39	325	P	P		11 32 50.7	+0.8
BURAR BURAR	Bucovina Array	76.40	325	P	P		11 33 03.5	
CLL CLL	Colim	77.88	334	iP	P		11 32 50.3	+0.4
CLL CLL	Colim	77.88	334	iP	P		11 33 03.5	
CLL CLL	Colim	77.88	334	iP	P		11 32 57.5	-0.5
EKA EKA	Eskdalemuir Ar	78.42	344	P	P		11 32 57.5	-0.5
EKA EKA	Eskdalemuir Ar	78.42	344	P	P		11 33 09.7	+1.1
BRRA BRRA	Reskin Array B	78.43	345	P	P		11 33 01.0	+0.1
BRTR BRTR	Reskin Array B	78.53	315	P	P		11 33 01.0	+0.1
KHC KHC	Kasperske Hory	79.56	332	eP	P		11 33 12.5	+0.9
KHC KHC	Kasperske Hory	79.56	332	eP	P		11 33 12.5	+0.9
KHC KHC	Kasperske Hory	79.56	332	eP	P		11 33 08.0	+0.7
GERES GERES	GERESS Array B	79.76	332	eP	P		11 33 08.0	+0.7
GERES GERES	GERESS Array B	79.76	332	eP	P		11 33 08.0	+0.7
TXAR TXAR	Lajlas Array	81.33	58	P	P		11 33 18.9	-0.2
TXAR TXAR	Lajlas Array	81.33	58	P	P		11 33 18.9	-0.2

ACCO ACCO	Cerro Coronel	3.38	220	eP	Pn		11 25 34.3	+4.8
ACCO ACCO	Cerro Coronel	3.38	220	eS	Pn		11 26 15.5	+3.6
ACCO ACCO	Cerro Coronel	3.38	220	eS	Pn		11 25 29.7	+0.3
ACCO ACCO	Cerro Coronel	3.38	220	eS	Pn		11 26 10.5	-1.1
ACCO ACCO	Cerro Coronel	3.38	220	eS	Pn		11 26 13.3	
SLA SLA	San Lorenzo	3.41	16	eP	Pn		11 25 28.0	-1.8
SLA SLA	San Lorenzo	3.41	16	eS	Pn		11 25 56.7	-1.6
DOCA DOCA	Reserva Natura	3.67	216	eP	Pn		11 25 33.2	+0.1
DOCA DOCA	Reserva Natura	3.67	216	eS	Pn		11 26 17.3	-1.1
DOCA DOCA	Reserva Natura	3.67	216	eS	Pn		11 26 17.6	
CO01 CO01	Juntas del Tor	3.67	237	eP	Pn		11 25 34.3	+1.2
CO01 CO01	Juntas del Tor	3.67	237	eS	Pn		11 26 19.2	+1.0
TCA TCA	Tanti	3.73	153	eP	Pn		11 25 34.7	+1.2
TCA TCA	Tanti	3.73	153	eS	Pn		11 26 18.5	-0.7
LCO LCO	Las Campanas	3.79	254	eP	Pn		11 25 34.2	-0.3
LCO LCO	Las Campanas	3.79	254	eS	Pn		11 26 18.7	-2.1
CFA CFA	Coronel Fontan	3.87	202	eP	Pn		11 25 35.8	+0.5
CFA CFA	Coronel Fontan	3.87	202	eS	Pn		11 26 21.0	-1.4
GO02 GO02	Mina Guanaco	3.93	315	eP	Pn		11 25 37.2	+0.8
GO02 GO02	Mina Guanaco	3.93	315	eS	Pn		11 26 30.6	+6.5
ZON ZON	Zonda	3.98	207	eP	Pn		11 26 17.5	-7.3
ZON ZON	Zonda	3.98	207	eS	Pn		11 26 24.6	
AZAP AZAP	Zapla	4.00	20	eP	Pn		11 25 38.2	+1.0
AC04 AC04	Llanos de Chal	4.00	266	eP	Pn		11 25 36.0	0.9
AC04 AC04	Llanos de Chal	4.00	266	eS	Pn		11 26 20.7	-4.4
AC04 AC04	Llanos de Chal	4.00	266	eS	Pn		11 26 31.1	
AC01 AC01	Pan de Azucar	4.06	296	eP	Pn		11 25 37.1	-0.6
AC01 AC01	Pan de Azucar	4.06	296	eS	Pn		11 26 11.3	-5.1
AC01 AC01	Pan de Azucar	4.06	296	eS	Pn		11 26 23.4	
GO04 GO04	Tololo Observa	4.30	239	eP	Pn		11 25 40.4	-0.5
GO04 GO04	Tololo Observa	4.30	239	eS	Pn		11 26 35.2	+2.9
MRA MRA	San Martin	4.45	171	eP	Pn		11 25 43.7	+1.0
MRA MRA	San Martin	4.45	171	eS	Pn		11 26 23.7	-1.2
RTLS RTLS	Leoncito	4.47	212	eP	Pn		11 25 37.6	-9.4
RTLS RTLS	Leoncito	4.47	212	eS	Pn		11 26 37.3	
CO03 CO03	El Pedregal	4.58	231	eP	Pn		11 25 44.7	+0.4
CO03 CO03								



Table with columns: Station Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like TNTI, MTN, BBJ, LEM, MBWA, PSAO, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like ZAAO, ZALV, KURBB, PETK, MAW, MA2, VNSA, BVAR, AB31, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like SRN, IGT, IGT, IGT, IGT, IGT, etc.

JMA 02 12:06:42.2 0.1, 43.1N:0.5:145.8E:0.6, h49km, MV2.7/36, OFF NEMURO PENINSULA

SKHL 02 12:06:43.0 0.6 43.10N:145.80E, h34km, 3km, mb 4.0/2

ISC 02 12:06:42.1 1.8, 43.035N:145.795E:0.06, h46km, 11km, n14, c0837/20, Hokkaido region

NEIC 02 12:20:29.5 1.1, 35.10N:0.01:96.31W:0.02, h4km, 3km, Error ellipse: s-maj=2.1km s-min=1.6km az=95.0

NEIC 02 12:20:29.4 1.1, 35.09N:0.01:96.30W:0.02, h5km, 1km, mb Lg2.9/112.4, ML2.8/14, ML2.9/24, Error ellipse: s-maj=3.4km s-min=2.7km az=113.0, Oklahoma

TIR 02 12:14:30.3, 40:45N:20:77E, h10km, Md3.0/8, M2.5/8

ATH 12:14:30.6, 40:51N:20:75E, h8km, 2km, ML2.2/10, Manual Solution by G.Panopoulou First location:

2019/06/02 12:15:52, This location: 2020/10/14 18:29:18 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 3 km

ISC 02 12:14:30.9 0.9, 40.47N:0.02:20.78E:0.02, h8km, 7km, n32, c0959/57, Greece-Albania border region

Table with columns: Code, Station Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like KBN, KBN, KBN, KBN, KBN, etc.

Table with columns: Code, Station Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like DEOK, DEOK, DEOK, FNO, FNO, FNO, etc.









NIE	Niedzica	11.34 323	P	Pn	13 11 30.8 +1.0
CUC	Castrocuoco	11.45 271	eP	Pn	13 11 31.3 0.0
VYHS	Vyhne	11.45 316	eP	Pn	13 11 33.1 +1.8
YHRS	Yhne	11.45 320	eP	Pn	13 11 33.1 +1.8
LANS	Liptovska Anna	11.55 320	eP	Pn	13 11 35.5 +2.8
LANS	Liptovska Anna	11.55 320	eP	Pn	13 11 35.5 +2.8
EIL	Elat	11.63 162	Pn	Pn	13 11 33.9 0.0
EIL	comp=Z,0.5nm,0.3s,baz=355,slow=11,SNR=6.7		LR	LR	13 17 04.5
CEL	Celeste	11.78 262	P	Pn	13 11 35.6 -0.3
VSR	Storzhevoje	11.91 26	eP	Pn	13 11 38.0 +0.4
VSR	comp=Z,2.0nm,0.9s				
OJC	Ojcow	12.14 324	eP	Pn	13 11 40.0 -0.7
PAOL	Paolisi	12.27 276	P	Pn	13 11 42.5 -0.1
VORR	Voronezh	12.31 25	eP	Pn	13 11 41.0 -2.1
VORR	comp=Z,10.0nm,0.8s				
RONA	Rosalia, Austr	12.45 308	ePn	Pn	13 11 45.1 +0.2
MAUC	Murau	12.51 317	ePn	Pn	13 11 51.1 +5.3
MAK	Makhachkala	12.65 75	eP	Pn	13 11 44.3 -3.3
MAK	comp=Z,136nm,1.0s				
MAK	comp=Z,581nm,15.0s		MLR	MLR	
ARSA	Arzberg	12.71 305	ePn	Pn	13 11 48.4 -0.2
INTR	Introdacqua	12.73 281	P	Pn	13 11 49.8 +0.9
AKT	Akhty	12.79 81	eP	Pn	13 11 54.8 +5.0
AKT	comp=Z,3.0nm,0.5s				
CONA	Conrad Observa	12.81 309	ePn	Pn	13 11 49.8 -0.3
CONA	comp=Z,4.4nm,1.1s				
VRH	Novokhoporsky	12.86 32	eP	Pn	13 11 51.2 +0.7
VRH	comp=Z,49nm,0.8s				
MORC	Moravsky Berou	12.91 318	ePn	Pn	13 11 52.5 +1.2
MORC	Moravsky Berou	12.91 318	ePn	Pn	13 11 52.4 +1.0
MORC	Moravsky Berou	12.91 318	ePn	Pn	13 11 52.3 +1.0
LPSR	Galich'ya Gora	13.03 23	eP	Pn	13 11 51.7 -1.2
LPSR	comp=Z,48nm,0.6s				
OBKA	Obir	13.05 301	ePn	Pn	13 11 54.6 +1.3
OBKA	comp=Z,1.4nm,0.6s				
KRUC	Moravsky	13.09 314	ePn	Pn	13 11 54.6 +0.9
AQU	L'Aquila	13.11 282	P	Pn	13 11 57.0 +3.0
AQU	comp=Z,24nm,0.9s				
VRAC	Vranov	13.12 315	Pn	Pn	13 11 55.3 +1.2
VRAC	comp=Z,0.2nm,0.3s,baz=131,slow=16,SNR=2.3		LR	LR	
VRAC	comp=Z,183nm,18.8s,baz=128,slow=39				
VRAC	comp=Z,1.8nm,0.7s				
VRAC	Vranov	13.12 315	ePn	Pn	13 11 55.2 +1.0
KRLC	Kraliky	13.48 318	ePn	Pn	13 12 02.0 +2.9
KRLC	Kraliky	13.48 318	ePn	Pn	13 12 02.0 +2.9
MYKA	Terra Mystica	13.68 301	ePn	Pn	13 12 03.3 +1.5
MYKA	comp=Z,6.6nm,1.0s				
MOA	Molin	13.74 306	ePn	Pn	13 12 02.5 -0.1
MOA	comp=Z,0.7nm,0.5s				
MNK	Minsk	13.83 353	iP	Pn	13 11 59.4 -4.4
MNK	comp=E,150nm,1.1s				
MNK	comp=N,76nm,1.1s				
MNK	comp=Z,111nm,0.9s,baz=171				
MNK	comp=Z,111nm,0.9s				
MNK	comp=N,76nm,1.1s				
MNK	comp=E,150nm,1.1s				
MNK	comp=Z,371nm,16.2s				
MNK	Minsk	13.83 353	iP	Pn	13 11 59.3 -4.4
MNK	comp=Z,111nm,0.9s				
MNK	comp=N,76nm,1.1s				
MNK	comp=E,150nm,1.1s				
MNK	comp=Z,371nm,16.0s				
DPC	Dobruska-Polom	13.88 318	ePn	Pn	13 12 07.6 +3.0
DPC	Dobruska-Polom	13.88 318	ePn	Pn	13 12 07.6 +3.0
KBA	Koelnbreinsper	14.02 302	ePn	Pn	13 12 08.3 +1.7
KBA	comp=Z,9.7nm,1.3s				
CKRC	Cesky Krumlov	14.15 310	ePn	P	13 12 13.6 -2.2
CKRC	Cesky Krumlov	14.15 310	ePn	P	13 12 13.6 -2.2
SUW	Suwalki	14.15 341	eP	Pn	13 12 08.6 +0.4
SUW	Suwalki	14.15 341	eP	Pn	13 12 06.1 -2.1
KSP	Ksiaz	14.21 320	eP	P	13 12 11.1 +2.1
KSP	Ksiaz	14.21 320	eP	P	13 12 14.8 -1.6
KSP	comp=Z,11nm,1.3s				
KSP	Ksiaz	14.21 320	P	Pn	13 12 08.5 -0.4
KSP	comp=Z,11nm,1.3s				
NACGM	Naroch	14.34 351	iP	Pn	13 12 07.4 -3.4
NACGM	comp=Z,161nm,1.1s,baz=165				
ABTA	Abfaltersbach	14.46 300	ePn	Pn	13 12 13.0 +0.6
ABTA	comp=Z,9.8nm,1.3s				
GERES	GERES Array B	14.51 309	Pn	Pn	13 12 12.4 -0.9
GERES	comp=Z,0.5nm,0.9s				
LESA	Schwarzeleal	14.57 303	ePn	Pn	13 12 16.3 +2.3
LESA	comp=Z,7.1nm,1.5s				
PRU	Pruhoniche	14.61 314	P	Pn	13 12 17.4 +2.9
PRU	comp=Z,7.0nm,1.4s				
KHC	Kasperske Hory	14.72 310	ePn	Pn	13 12 21.9 -0.3
KHC	Kasperske Hory	14.72 310	ePn	Pn	13 12 18.9 +2.3
IDID	Didziasalis	14.75 351	eP	Pn	13 12 13.0 -3.4
OBN	Obninsk	14.81 13	Pn	Pn	13 12 14.4 -2.7
OBN	Obninsk	14.81 13	Pn	Pn	13 12 14.7 -2.5
OBN	comp=Z,6.6nm,0.3s,baz=176,slow=18,SNR=6.5				
OBN	Obninsk	14.81 13	iP	Pn	13 12 14.2 -2.9
OBN	comp=Z,29nm,0.7s				
OBN	comp=Z,29nm,0.7s				
OBN	Obninsk	14.81 13	P	Pn	13 12 14.1 -3.0
OBN	comp=Z,249nm,17.0s				
ISAL	Salakas	15.08 350	eP	Pn	13 12 17.8 -3.0
ISAL	Wetzell	15.13 309	eP	Pn	13 12 27.7 +0.9
WET	Wetzell	15.13 309	eP	Pn	13 12 27.7 +0.9
WET	comp=Z,12nm,1.0s				
WTTA	Wattenberg	15.18 301	ePn	Pn	13 12 23.9 +1.6
WTTA	comp=Z,9.0nm,1.1s				
WATA	Waldersheim	15.24 302	ePn	Pn	13 12 25.0 +1.8
WATA	comp=Z,11nm,1.1s				
PABE	Paberze	15.37 345	eP	Pn	13 12 22.9 -1.7
BRG	Berggiesshubel	15.42 316	P	Pn	13 12 30.8 +0.9
BRG	Berggiesshubel	15.42 316	eP	P	13 12 30.7 +0.9
BRG	comp=Z,4.9nm,1.1s				
SQTA	Sankt Quirin	15.45 301	ePn	Pn	13 12 27.4 +1.6
SQTA	comp=Z,6.3nm,0.9s				
MOTA	Moosalm	15.55 301	eP	Pn	13 12 29.3 +2.0
MOTA	comp=Z,19nm,1.3s				
MOS	Moscow	15.60 15	eS	Pn	13 12 24.0 -3.5
MOS	Moscow	15.60 15	eS	Pn	13 12 14.9 -5.3
MOS	comp=Z,89nm,1.1s				
FETA	Feichten	15.71 300	ePn	Pn	13 12 30.4 +1.2
FETA	comp=Z,9.4nm,1.0s				
RETA	Reutte	15.82 302	ePn	P	13 12 32.5 -1.9
RETA	comp=Z,9.8nm,0.8s				
VSDV	Vaisvydziai	15.83 346	eP	Pn	13 12 29.6 -0.9
CLL	Collim	16.15 316	eP	Pn	13 12 35.0 +0.2
CLL	comp=Z,10.0nm,1.4s				
CLL	Collim	16.15 316	eP	Pn	13 12 35.0 +0.2
CLL	comp=Z,9.7nm,1.4s				
CLL	comp=Z,10.0nm,1.4s				
CLL	comp=Z,19nm,1.6s				

CLL	CLL	comp=Z,200nm,21.9s			
DAVOX	Davos/Dischmat	16.21 299	Pn	Pn	13 12 34.5 -1.2
DAVOX	comp=Z,0.1nm,0.3s,baz=114,slow=11,SNR=5.2				
DAVOX	comp=Z,0.5nm,0.4s				
PBUR	Paburge	16.29 342	eP	Pn	13 12 35.6 -0.8
BELG	Belogorye	16.32 39	Pn	Pn	13 12 35.4 -1.5
BELG	comp=Z,2.2nm,0.3s,baz=246,slow=0.9,SNR=11				
BELG	Belogorye	16.32 39	iP	Pn	13 12 34.6 -2.3
BELG	comp=Z,1.1nm,0.8s				
DAVA	Danuless	16.34 300	ePn	Pn	13 12 38.6 +1.3
DAVA	comp=Z,31nm,1.1s				
MOX	Moxa	16.56 313	P	P	13 12 41.6 -0.9
MOX	comp=Z,6.0nm,1.0s				
KEST	Kezra	17.57 260	P	P	13 12 54.8 +1.0
KEST	comp=Z,0.1nm,0.3s,baz=55,slow=11,SNR=12				
BFO	Black Forest	17.63 303	P	P	13 12 54.5 +0.1
BFO	Black Forest	17.63 303	P	P	13 12 54.5 +0.1
BSD	Bornholm Skovb	17.75 329	eP	Pn	13 12 55.6 -0.1
GSD	Bornholm Skovb	17.75 329	iP	Pn	13 12 54.6 -0.3
VSU	Vasula	17.85 353	dP	Pn	13 12 51.5 -4.5
VSU	comp=Z,74nm,0.8s				
VSU	Vasula	17.85 353	eP	Pn	13 12 51.9 -4.1
BNI	Bardonecchia	18.13 292	Iamb	Iamb	13 13 10.1
BNI	Bardonecchia	18.13 292	P	P	13 13 04.1 +4.0
TNS	Tausus Mts	18.20 309	P	Pn	13 12 58.3 -2.2
TNS	comp=Z,9.0nm,1.6s				
ECH	Echery	18.35 302	Iamb	Iamb	13 13 07.6
MTSE	Mtse	18.45 348	eP	P	13 13 02.8 -0.5
ORIF	Oris-en-Rattie	18.68 291	P	Pn	13 13 09.5 +3.0
ORIF	comp=Z,14nm,1.4s				
LUNU	Lund	18.71 328	iP	Pn	13 13 07.3 +0.7
BSEG	Bud Segeberg	18.99 321	P	Pn	13 13 09.8 -0.2
BSEG	comp=Z,18nm,1.1s				
DEL	Delary	19.15 331	iP	P	13 13 09.4 -1.6
WLF	Walfandange	19.40 305	dP	Pn	13 13 15.2 +0.2
SSB	Saint Sauveur	19.65 292	P	Pn	13 13 21.0 +2.9
SSB	comp=Z,12nm,1.1s				
BHOU	Houvegneg	19.71 307	dP	Pn	13 13 19.9 +1.2
BTNL	Ternel	19.71 308	dP	Pn	13 13 22.5 +3.8
MEM	Membach	19.79 308	P	Pn	13 13 20.9 +1.3
MEM	comp=Z,19nm,1.8s				
MEM	Membach	19.79 308	dP	Pn	13 13 20.6 +0.9
MEF	Metsahovi	19.82 351	eP	P	13 13 18.1 -0.3
FALKEN	Falkenberg	19.98 300	eP	Pn	13 13 19.3 -0.7
FCB	Flaichen	20.15 307	dP	Pn	13 13 24.8 +0.6
BGES	Gesves	20.27 307	dP	Pn	13 13 25.8 +0.4
LOR	Lormes	20.34 297	P	Pn	13 13 26.4 +0.2
LOR	comp=Z,36nm,1.1s				
BORU	Bourdour	20.42 332	iP	P	13 13 23.9 -1.0
BMRD	Maredsous	20.44 306	dP	Pn	13 13 27.3 0.0
DOU	Dourbes	20.49 306	dP	Pn	13 13 27.6 -0.2
KLMR	Klimovskoe	20.77 12	eP	Pn	13 13 41.7 +1.1
KLMR	comp=Z,41nm,1.3s				
FLA1	FINESS Array S	20.85 354	P	P	13 13 29.4 -0.1
FLA1	FINESS Array S	20.85 354	P	P	13 13 29.0 -0.5
FLA1	FINESS Array S	20.85 354	P	P	13 13 28.9 -0.6
FLA1	comp=Z,19nm,0.7s,baz=172,slow=10,SNR=32				
FLA1	FINES	comp=Z,4.8nm,0.6s,baz=180,slow=16,SNR=4.9			
FLA1	FINES	comp=Z,34nm,0.7s			
FLA1	FINES	comp=Z,34nm,0.7s			
RAF	Rauma	20.98 348	eP	P	13 13 30.6 -0.2
RAYN	Ar Rayn	21.22 140	Iamb	Iamb	13 13 34.3 +0.4
RAYN	Ar Rayn	21.22 140	P	Pn	13 13 34.3 +0.4
RAYN	comp=Z,17nm,1.1s				
AKTO	Aktjubinsk	21.23 54	P	P	13 13 33.5 -0.2
AKTO	comp=Z,6nm,0.8s,baz=256,slow=13,SNR=10				
AKTO	comp=Z,16nm,0.8s				
MTFL	Montioleu	21.31 286	P	P	13 13 35.7 +1.1
MTFL	comp=Z,16nm,1.5s				
KIRV	Kirov	21.35 27	P	P	13 13 34.6 -0.3
KIRV	comp=Z,24nm,0.6s,baz=228,slow=9.0,SNR=18				
KIRV	comp=Z,184nm,18.3s,baz=226,slow=38				
KIRV	comp=Z,24nm,0.6s				
KIRV	Kirov	21.35 27	iP	P	13 13 34.3 -0.6
CLF	Chambon-Foret	21.52 299	P	P	13 13 36.9 0.0
CLF	comp=Z,52nm,1.3s				
KEF	Keuru	21.68 352	eP	P	13 13 38.5 +0.1
HFS	Hagfors	22.06 337	P	P	13 13 42.3 -0.2
HFS	comp=Z,16nm,0.9s,baz=142,slow=9.9,SNR=15				
HFS	comp=Z,5.7nm,0.8s,baz=132,slow=26,SNR=3.8				
HFS	comp=Z,231nm,18.5s,baz=146,slow=42				
HFS	comp=Z,16nm,0.9s				
AB31	Akbulaik array	22.16 58	P	Iamb	13 13 43.4 -0.3
AB31	comp=Z,9.6nm,0.8s				



Table with columns: WRA, MJAR, NVAR, ILAR, CMAR. Includes station names, coordinates, and times.

IDC 02 13:51:48.8-0.9, 19:33N:64:70W, h0km, mb3.5/8, mtbpm3.8/11, ML3.3/4, Error ellipse: s-maj=22.6km s-min=18.9km az=118.0

RSPR 02 13:51:49.0, 19:21N:64:28W, h35km, 22km, MD3.4/8 OSPL 02 13:51:53.6-2.2, 19:28N:64:71W, h31km, 167km, ML3.7 NEIC 02 13:51:54.4-1.3, 19:06N:0:04:64:76W:0.06, h35km, 2km, m4.2/10, ML3.7/34, MD3.4/8 (RSPR), Error ellipse: s-maj=21.15km s-min=9.4km az=241.0

ISC 02 13:51:50.3-1.9, 19:25N:0:05:64:78W:0.04, h1km, 11km, n100, c1967/115, mb3.8/11, 7C-7D, Virgin Islands

Main table for station 133, listing Code, Station Name, Az, Az', Phase ID, Time, Res, and various station identifiers.

Table for station 134, listing GRTK, LOBH, MASC, MASC, PCRV, QMBU, QMBU, BAUV, SDV, RUSC, RUSC, ROSC, BOAV, BRUZ, JTS, OTAV, OTAV, T50A, T50A, SAML, SAML, LPAZ, TXAR, SDCO, PV18, PV18, PDAR, NVAR, ESDC, TORD, ILAR, Q19K. Includes station names, coordinates, and times.

IDC 02 13:59:40.4-0.7, 19:20N:64:63W, h0km, mb3.8/12, mtbpm4.0/16, ML3.5/4, MS3.3/7, Error ellipse: s-maj=18.1km s-min=13.7km az=82.0

RSPR 02 13:59:43.9, 19:26N:64:49W, h69km, 13km, MD3.7/13 NEIC 02 13:59:46.9-1.8, 19:01N:0:06:64:49W:0.07, h35km, 2km, m4.3/24, ML3.9/24, MD3.7/13 (RSPR), Error ellipse: s-maj=14.7km s-min=4.0km az=230.0

ISC 02 13:59:47.0-0.5, 19:23N:0:05:64:73W:0.04, h42km, n118, c1889/110, mb4.1/24, MS3.2/4, 7C-6D, Virgin Islands

Main table for station 134, listing Code, Station Name, Az, Az', Phase ID, Time, Res, and various station identifiers.

Table for station 135, listing TBG, TBG, HOSN1, MAGL, OSLB, BANI, HOS1, HOS1, SDDR, SDDR, SDDR, GRTK, GRTK, PCRV, PCRV, PCRV, PCRV. Includes station names, coordinates, and times.

QMBU, NMDO, GTBY, SDV, SDV, SDV. Includes station names, coordinates, and times.

BOAV, MDP, JTS, TEF, OTAV, OTAV. Includes station names, coordinates, and times.

OTAV, MAL2, LRAL, LRAL, SAML, SAML, SADO, SADO, WILB, WILB, WILB, SMTB, SMTB, PTLB, PTLB. Includes station names, coordinates, and times.

SCHG, TXAR, BDFB, ULM. Includes station names, coordinates, and times.

SDCO, SDCO, PV02, PV13, PV11, PV18, PV16, PV17. Includes station names, coordinates, and times.

PDAR, PDAR, FRB, TPWA, CPUP, CPUP, SPR3, SPR3. Includes station names, coordinates, and times.

SFJD, ITQB, NV11, NV11, NVAR, CFA. Includes station names, coordinates, and times.

J08A, YKA, ESDC, TORD, ILAR, ASAR. Includes station names, coordinates, and times.

JMA 02 14:05:04.7-0.2, 23:7N:0:8:122:1E:0.9, h21km, MV2.4/11, TAP 02 14:05:04.4, 23:67N:122:07E, h32km, ML2.8/D, ISC 02 14:05:04.4-1.0, 23:66N:0:02:122:09E:0.02, h26km, 10km, n109, c087/1181, 20D, Taiwan region

Main table for station 135, listing Code, Station Name, Az, Az', Phase ID, Time, Res, and various station identifiers.

2d 14h

Table with columns: Station Name, Az, Az\*, Phase ID, Time, Res, ISC, and various station codes (e.g., EOSS, ECBN, NACB).

2019 JUN

Main table with columns: Code, Station Name, Az, Az\*, Phase ID, Time, Res, ISC, and various station codes (e.g., RAO, RAO, URZ, ASAR, WRA, NVAR, CMAR).

134

Table with columns: Station Name, Az, Az\*, Phase ID, Time, Res, ISC, and various station codes (e.g., PENT, LMS2, KPRO, KPRO, KPRO, OHR).



Table with columns: PDG, Station Name, Frequency, Power, and other technical details. Includes stations like PESSADA, BAJRICH, RATAZAKI, etc.

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like GERES, FETA, MOTA, RETA, etc.

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like KBN, KBN, KBN, etc.

TIR 02 15:16:26.0, 40.47N, 20.76E, h4km, 2km, M2.6/8
ATH 02 15:16:27.9, 40.40N, 20.91E, h12km, 1km, M2.3/11,
Manual Solution by G.Panopoulos First location:
2019/06/02 15:17:41, This location: 2019/06/02 17:13:09
ML Amplitudes are expressed in micrometers, All
distances are expressed in degrees Latitude uncertainty: 1
km; Longitude uncertainty: 2 km
ISC 02 15:16:26.8-0.9, 40.47N, 20.84E, 0.03, h11km, 7km,
n22, 0.90/37, Greece-Albania border region

Table with columns: Code, Station Name, Frequency, Power, and other technical details. Includes stations like KBN, KBN, KBN, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like SRS Serrai, AXAR Agios Charalam, KKB Krupnik, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like comp=E,0.1nm,0.3s, etc., and various international stations.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like AS31 Alice Springs, ASAR Alice Springs, etc., and various international stations.

Technical notes and data for the 2019 JUN event, including coordinates and station identifiers.

ISC 02 15:43:12.9,0.6,21.225x174.52W,h0km,mb4.1/6, bmtmp4.4/8,ML3.9/2,MS4.0/39,Error ellipse: s-maj=21.6km s-min=16.6km az=125.0

BUI 02 15:43:13.9,20.945:173.94W,h13km,mb5.2/7,mb5.0/34 NEIC 02 15:43:15.5,2.2,21.1S:0.1x174.2W:0.1,h10km,1km, mb4.9/146,Error ellipse: s-maj=19.4km s-min=15.3km az=143.0

GCMT 02 15:43:17.4,0.4,21.62S:0.04x173.89W:0.03,h28km,1km, DZM 19.9/7,Moment Tensor Solution, s28,c28: s87,c106; Duration: 0 Moment tensor: Scale 10^16Nm; Mr2:73.18; Mw:0.85; 12; Mw-1.88; 11; Mw-1.55; 19; Mw-0.69; 06; Mw:0.82; 15; Best double couple: M0.300000/1016 NP13=197.000000/831.000000/66.000000; NP2: 0.44.000000/662.000000/1.103.000000; Principal axes: T 3.3630,Plg70.000000, Azm343.000000; N -0.7220, Plg12.000000, Azm18.000000; P -2.6370,Plg16.000000, Azm124.000000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular

ISC 02 15:43:14.9,0.4,21.109S:0.08x173.33W:0.09,h10km, ISL 02 15:43:14.26,mb4.9/99,MS4.0/38,12C-20,Tonga Islands

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other technical details. Includes stations like AF1 Afiamalu, MSVF Aoniamau, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like R16K Pilot Point, KSRS Korea Array, etc., and various international stations.

19K	Oil Pt	82.29	11	P	P	15 55 36.8 +0.5	PNL	Peninsula	85.40	17	P	P	15 55 52.1 -0.1	WHY	Whitehorse	87.49	18	P	P	15 56 02.4 -0.2
ELK	Elko	82.43	41	LR	LR	16 28 23.6	KLU	Klutina	85.41	13	P	P	15 55 52.5 +0.3	K24K	Donnelly Dome	87.51	12	P	P	15 56 02.8 +0.3
N17K	Nushagak Hills	82.52	8	P	P	15 55 38.5 +1.2	J18K	Innok River	85.41	8	P	P	15 55 52.3 +0.2	N30M	Aishkik Lake	87.53	17	P	P	15 56 02.4 -0.2
HOM	Homer	82.58	11	P	P	15 55 38.5 +0.8	SCM	Sheep Creek Mo	85.42	12	P	P	15 55 52.5 +0.2	G18K	Tagagawik	87.53	6	P	P	15 56 03.1 +0.6
O19K	Port Alsworth	82.62	10	P	P	15 55 38.7 +0.9	PPLA	Purkeypyle	85.52	10	P	P	15 55 52.8 0.0	H20K	Antleneega Mo	87.59	8	P	P	15 56 02.5 -0.2
L14K	Kuka Creek	82.68	6	P	P	15 55 39.3 +1.2	PINM	Pinnacle	85.53	16	P	P	15 55 52.5 -0.3	NEA2	Nenana	87.62	11	P	P	15 56 02.6 -0.3
L14K	Kuka Creek	82.68	6	P	P	15 55 39.2 +1.1	ANM	ANM	85.66	4	P	P	15 55 53.3 0.0	RIDG	Independent Ri	87.64	13	I Amb	I Amb	15 56 15.3
M16K	Timber Creek	82.77	7	P	P	15 55 39.8 +1.1	K20K	Telida	85.67	9	P	P	15 55 53.4 0.0	RIDG	Independent Ri	87.64	13	P	P	15 56 02.9 -0.2
O20K	Slope Mountain	82.80	11	P	P	15 55 40.1 +1.2	R32K	Eaglecrest	85.69	20	P	P	15 55 53.7 +0.1	HEH	Heihe	87.65	327	eP	pmax	15 56 04.3 +1.0
BRSE	Bradley Lake S	82.83	12	P	P	15 55 39.8 +0.7	GRNC	Granite Creek	85.70	15	I Amb	I Amb	15 55 55.7	I21K	Tanana	87.70	9	I Amb	I Amb	15 56 15.9
N18K	Kilae Creek	82.85	9	P	P	15 55 40.0 +0.9	N25K	Chitina, Valde	85.80	14	I Amb	I Amb	15 56 06.5	I21K	Tanana	87.70	9	P	P	15 56 03.9 +0.7
NJ2	Nanjing	82.92	308	eP	pmax	15 55 41.0 +0.9	N25K	Chitina, Valde	85.80	14	P	P	15 55 53.7 -0.4	L27K	Beaver Creek	87.70	14	P	P	15 56 03.8 +0.5
MDJ	Mudanjiang	83.01	323	P	pmax	15 55 42.2 +1.9	P29M	Windy Craggy	85.83	18	I Amb	I Amb	15 55 56.0	R33M	Jennings River	87.71	21	I Amb	I Amb	15 56 31.0
K13K	Kusivak Mount	83.10	5	P	P	15 55 41.5 +1.2	P29M	Windy Craggy	85.83	18	P	P	15 55 53.8 -0.4	R33M	Jennings River	87.71	21	P	P	15 56 03.3 -0.3
L15K	Ungalak Mounta	83.13	6	P	P	15 55 41.1 +0.7	NEW	Newport	85.89	34	LR	LR	16 30 09.4	BCAR	Beaver Creek A	87.71	14	I Amb	I Amb	15 56 03.8 +0.3
N19K	Bonanza Creek	83.19	10	P	P	15 55 40.8 +0.1	M24K	Tolana, Glenn	85.91	13	P	P	15 55 54.5 -0.1	DOT	Dot Lake	87.72	13	I Amb	I Amb	15 56 05.2
M17K	Holitna River	83.32	8	P	P	15 55 43.2 +1.7	MCARA	McCarthy VSAT	85.96	15	P	P	15 55 54.6 -0.2	MLY	Manley	87.75	10	I Amb	I Amb	15 56 14.9
M17K	Holitna River	83.32	8	P	I Amb	15 55 44.3	LOGN	Logan Glacier	85.96	16	I Amb	I Amb	15 55 57.5	MLY	Manley	87.75	10	P	P	15 56 03.7 +0.1
L16K	Owhat River	83.37	7	P	P	15 55 42.9 +1.1	H16K	Elim	85.97	5	P	P	15 55 54.7 -0.1	P33M	Teslin, Yukon	87.76	19	P	P	15 56 04.2 +0.4
SEW	Seward	83.41	12	P	P	15 55 43.1 +1.1	CTG	Chitna Glacier	86.00	15	P	P	15 55 54.7 -0.5	SEY	Seymchan	87.77	345	P	pmax	15 56 03.4 -0.3
M18K	Stony River	83.63	9	P	P	15 55 43.6 +0.5	CTGM	Chitina Glacie	86.00	15	I Amb	I Amb	15 56 08.1	SEY	Seymchan	87.77	345	P	LR	16 31 07.6
MFID	Camas Ranch	83.66	39	P	I Amb	15 55 44.8 +0.9	WAT6	Susitna Watana	86.02	12	P	P	15 55 54.3 -1.0	VNA2	Neumayer-Watz	87.77	176	IP	P	15 56 03.3 -0.5
MFID	Camas Ranch	83.66	39	P	I Amb	15 55 59.2	CAST	Castle Rocks	86.03	10	I Amb	I Amb	15 56 06.0	F17K	Baldwin Pennin	87.83	5	P	P	15 56 04.9 +1.1
O22K	Cooper Landing	83.71	12	P	P	15 55 43.9 +0.4	CAST	Castle Rocks	86.03	10	P	P	15 55 53.8 -1.4	HDA	Harding Lake	87.83	12	I Amb	I Amb	15 56 05.4
K15K	Wolf Creek Mou	83.73	6	P	P	15 55 45.3 +1.7	J19K	Pooman	86.06	8	I Amb	I Amb	15 56 08.2	HDA	Harding Lake	87.83	12	P	P	15 56 04.3 +0.4
K15K	Wolf Creek Mou	83.73	6	P	P	15 55 44.9 +1.3	J19K	Pooman	86.06	8	P	P	15 55 55.0 -0.3	CCB	Clear Creek Bu	87.89	11	I Amb	I Amb	15 56 17.3
P23K	Montague Islan	83.74	13	P	P	15 55 44.4 +0.7	PLBC	Pleasant Can	86.08	18	P	P	15 55 54.5 -1.0	N31M	Braburn, Yuko	87.91	17	P	P	15 56 04.8 +0.4
CRAG	Craig	83.92	22	P	P	15 55 45.3 +0.6	WAT1	Susitna Watana	86.09	12	P	P	15 55 55.0 -0.5	G19K	Purcell Mounta	87.94	7	I Amb	I Amb	15 56 17.6
L17K	Donlin	83.92	7	P	P	15 55 46.1 +1.5	T35M	Bob Quinn	86.11	22	P	P	15 55 54.2 -1.5	G19K	Purcell Mounta	87.94	7	P	P	15 56 05.1 +0.7
N20K	Mount Spurr	83.92	11	P	P	15 55 45.0 +0.3	O28M	Mount Upton	86.13	16	I Amb	I Amb	15 56 08.9	PSI	Prapat	87.96	274	LR	LR	16 38 05.3
SPCR	Spurr Chakacha	83.92	11	P	P	15 55 45.4 +0.7	O28M	Mount Upton	86.13	16	P	P	15 55 55.1 -1.0	M29M	Somme Creek	87.96	16	I Amb	I Amb	15 56 17.4
J14K	Nanvaranak Lak	84.00	5	P	P	15 55 45.4 +0.5	O29M	Mount Kennedy	86.16	17	P	P	15 55 55.6 -0.4	M29M	Somme Creek	87.96	16	P	P	15 56 04.9 +0.1
L18K	Granite Mounta	84.21	8	P	I Amb	15 55 47.3 +1.2	G15K	Niukuk	86.18	4	P	P	15 55 55.4 -0.4	H21K	Melozitna Rive	88.03	9	I Amb	I Amb	15 56 18.1
L18K	Granite Mounta	84.21	8	P	I Amb	15 55 49.5	TIA	Taian	86.23	311	P	pmax	15 55 57.6 +0.8	H21K	Melozitna Rive	88.03	9	P	P	15 56 05.5 +0.6
L18K	Granite Mounta	84.21	8	P	P	15 55 46.8 +0.7	KTH	Kantishna Hill	86.34	10	I Amb	I Amb	15 56 08.0	SCRK	Sand Creek	88.03	13	P	P	15 56 05.8 +0.7
M19K	Big River Lodg	84.24	9	P	P	15 55 46.5 +0.3	TRF	Thorofore Moun	86.35	11	I Amb	I Amb	15 56 10.1	I23K	Minto, Yukon-K	88.08	10	I Amb	I Amb	15 56 16.9
M19K	Big River Lodg	84.24	9	P	P	15 55 46.9 +0.6	TRF	Thorofore Moun	86.35	11	P	P	15 55 56.3 -0.7	I23K	Minto, Yukon-K	88.08	10	P	P	15 56 05.4 +0.3
RC01	Rabbit Creek A	84.27	12	P	P	15 55 46.7 +0.4	PLCA	Paso Fieos	86.36	132	P	LR	16 26 57.5	COLA	Cola	88.09	11	P	P	15 56 05.6 +0.5
PWL	Port Wells	84.33	12	P	P	15 55 46.8 +0.1	PLCA	Paso Fieos	86.36	132	P	LR	16 26 57.5	F18K	Selawik	88.12	6	P	P	15 56 05.8 +0.6
KAIM	Kayak Island	84.35	15	P	P	15 55 46.9 +0.1	HARP	HAARP	86.38	13	P	P	15 55 56.6 -0.3	IL31	comp=Z,1.5nm,1.4s	88.17	11	I Amb	I Amb	15 56 18.9
V35K	Ketchikan	84.35	23	P	P	15 55 47.0 +0.1	CHUM	Lake Minchum	86.43	10	P	P	15 55 56.6 -0.3	ILAR	Eielson Array	88.17	11	P	P	15 56 05.0 -0.6
M20K	Styx River	84.41	10	P	P	15 55 46.9 -0.3	J20K	Nowit River	86.43	9	P	P	15 55 57.2 +0.1	ILAR	Eielson Array	88.17	11	P	P	15 56 05.8 +0.3
SUA	Susitna One	84.43	11	I Amb	I Amb	15 55 48.4	P30M	Million Dollar	86.45	18	P	P	15 55 57.1 -0.3	J25K	Salcha River	88.32	12	I Amb	I Amb	15 56 18.5
SUA	Susitna One	84.43	11	P	P	15 55 47.1 -0.2	H17K	Granite Mounta	86.47	6	P	P	15 55 58.0 +0.7	J25K	Salcha River	88.32	12	P	P	15 56 06.8 +0.5
U33K	Whale Pass	84.43	22	P	P	15 55 47.0 -0.2	F14K	Arctic Creek	86.51	3	P	P	15 55 58.3 +0.8	POKR	Poker Plat Res	88.39	11	P	P	15 56 07.0 +0.5
L19K	White Mountain	84.43	9	I Amb	I Amb	15 55 59.5	S34M	Telegraph Cree	86.52	21	P	P	15 55 57.7 0.0	E17K	Hotham Inlet	88.41	5	P	P	15 56 07.1 +0.5
L19K	White Mountain	84.43	9	P	P	15 55 47.5 +0.3	TNA	Tin City	86.52	3	P	P	15 55 58.5 +1.0	N32M	Quiet Lake	88.42	19	P	P	15 56 07.2 +0.3
SIT	Sitka	84.44	20	P	P	15 55 47.4 +0.1	DHY	Denali Highway	86.54	12	P	P	15 55 58.2 +0.3	H22K	Ishtalina Cre	88.46	9	P	P	15 56 07.4 +0.5
K17K	Ititarod	84.49	7	P	P	15 55 47.7 +0.2	CMIG	Matias Romero	86.61	70	LR	LR	16 28 27.6	K27K	Chicken	88.48	14	P	P	15 56 07.5 +0.5
TXAR	Lajitas Array	84.52	56	P	P	15 55 48.7 +0.2	GCSA	Galena City Sc	86.62	7	P	P	15 55 58.9 +0.9	HNS	HongShan	88.50	311	IP	pmax	15 56 09.4 +1.7
TXAR	Lajitas Array	84.52	56	P	LR	16 29 52.9	GCSA	Galena City Sc	86.62	7	P	P	15 55 58.9 +0.9	HNS	HongShan	88.50	311	IP	pmax	15 56 09.4 +1.7
EYAK	Cordova Ski Ar	84.60	14	P	P	15 55 47.9 -0.1	YUK6	Shelby Glacier	86.67	16	P	P	15 55 59.0 +0.3	F19K	Shalukik Mo	88.54	6	I Amb	I Amb	15 56 08.8
GLJ	Glacier Island	84.60	13	P	P	15 55 48.3 +0.2	G16K	Koyuk River	86.70	5	P	P	15 55 58.9 +0.5	F19K	Shalukik Mo	88.54	6	P	P	15 56 07.9 +0.7
GAMB	Gambell	84.61	1	P	P	15 55 48.7 +0.7	YUK6	Shelby Glacier	86.70	5	P	P	15 55 58.9 +0.5	J26L	Joseph Creek	88.58	13	P	P	15 56 07.6 0.0
SKT	Skwentna	84.77	11	I Amb	I Amb	15 55 60.0	PAX	Paxson	86.83	13	P	P	15 55 59.5 +0.3	L29M	L29M	88.63	16	I Amb	I Amb	15 56 20.8
SKT	Skwentna	84.77	11	P	P	15 55 48.9 0.0	BPAW	Bear Paw Mtn.	86.84	10	I Amb	I Amb	15 55 16.6	L29M	L29M	88.63	16	P	P	15 56 08.2 +0.4
J16K	Anvik River	84.79	6	I Amb	I Amb	15 55 51.5	BPAW	Bear Paw Mtn.	86.84	10	P	P	15 55 59.7 +0.5	GSI	Gunungstipit	88.68	272	P	P	15 56 09.2 +0.1
J16K	Anvik River	84.79	6	P	P	15 55 49.4 +0.5	F15K	North Star Dit	86.84	4	P	P	15 55 59.8 +0.7	G21K	Allakaket	88.74	8	P	P	15 56 08.8 +0.6
M22K	Willow																			

2d 16h

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Table with columns: GYA, I27K, C18K, E20K, MMPY, D19K, G25K, I28M, SLVN, J30M, J30M, BEAVL, I29M, D20K, E22K, E22K, F24K, H27K, H27K, C19K, B18K, G26K, E23K, E23K, I30M, I30M, E24K, F25K, BMAR, G27K, D22K, C21K, H29M, H29M, XAN, XAN, XAN, XAN, TOLK, F26K, F26K, D23K, E25K, E25K, A19K, B21K, B20K, H31M, G29M, D24K, F28M, E27K, E27K, HHC, C23K, G30M, B22K, D25K, C24K, KMI, G31M, A22K, F30M, E28M, E28M, ATAH, WRGLY, J7S, E29M, C26K, D27M, F31M, CM31, CMAR, CMAR, CMAR, CHTO, D28M, YAK, INK, PZH, PZH

Table with columns: PZH, LZH, LZH, LZH, A36M, LPAZ, ULM, GTA, GTA, BVAR, AK03, AK23, AKAS, AKBB, KIEV, EKA, MI28, RNP8, RNP1, RNP5, LUBAR, BSEG, NES6, RORM, RETH, NRDL, FLTG, ASSE, IBBN, OJC, CLZ, KSP, CLL, CLL, CLL, CLL, GTTG, NIE, NEUB, BRG, BRG, BRG, BRG, BRG, DPC, STEB, BUG, BRTR, KRCL, MORC, LANS, ASF, MOX, MAUC, TANN, VRAO, JAVC, VYHS, KRUC, TNS, TNS, ZVC, MMAL, GRF, MODS, KHC, CKRC, GERES, BFO, RJOB, TIR, Code, Station Name, A, AZ, Phase ID, Time, Res, ISC

Table with columns: BKI, Bering, MKZ, KBTR, KBG, TUMD, TUMD, ZLN, BZGR, BZGR, BZWR, KMN, KMN, KIRR, KLY, KPT, KYZ, KIL, SPN, SPN, ESO, NLC, SDLR, SMR, SMR, KRA, UGLR, AVH, KRX, KOK, DALK, PET, PET, KRM, KRM, RUS, RUS, PETK, PETK, MTRV, GRL, ASK, APC, KDTR, SHEM, H11N2, H11N3, H11N1, TXAR, AFAD, NOR, ISC, Code, Station Name, A, AZ, Phase ID, Time, Res, ISC









Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Ruatuhuna, Moawhango, Mangateitei, Urewera, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Coope Vega, Santa Ana, Mercedes San J, etc.

ICC 02 19:44:35.6-8.3, 22.222S, 179.44W, h541km, 85km, mb3.1/8, mbmp4.0/8, Error ellipse: s-maj=47.4km s-min=24.6km az=74.0

ISC 02 19:44:40.2-1.2, 22.222S, 0.2x-179.6W, 0.2, h592km, n15, 0.0593/13, mb3.6/8, South of Fiji Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Stephens Creek, Alice Springs, Warramunga Arr, etc.

ICC 02 19:49:24.6-0.8, 32.07S, 71.88W, h0km, mb4.2/8, mbmp4.1/12, ML3.9/3, MS3.6/14, Error ellipse: s-maj=28.4km s-min=16.9km az=108.0

SJA 02 19:49:27.0-0.7, 32.13S, 71.80W, h17km, 2km, ML4.5, MW4.5

NEIC 02 19:49:29.1-1.7, 32.13S, 0.04x-71.82W, 0.107, h27km, 4km, mb4.8/8, Mw=4.37, Ml=4.03, Error ellipse: s-maj=8.5km s-min=5.5km az=89.0, Moment Tensor Solution. Moment tensor: Scale 10^15 Nm, Mri 1.52; Mxx 0.26; Myy -1.78; Mzz -0.74; Mxy 1.22; Myz -2.32; Fault plane solution: M3.19000, 1015 NP1=304.39000, 0.31.94000, 0.31.65000. NP2=186.77000, 0.73.88000, 0.117.95000. Principal axes: T. 2.3228, Plg53.00000, Azm130.00000; N -0.0846, Plg27.00000; Azm358.00000; P -3.1481, Plg24.00000; Azm256.00000;

NEIC 02 19:49:29.3, 32.14S, 71.83W, h29km GUC 02 19:49:29.7, 0.9, 32.15S, 71.70W, h30km, 6km, ML4.3

ISC 02 19:49:26.2-1.2, 32.12S, 0.02x-71.87W, 0.04, h12km, 7km, mb4.7/11, mb4.5/12, MS3.7/10, 23C-3D, Near coast of central Chile

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Catapilco, Combarbal, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MT02, MT02, PEL, PEL, etc.

UCR 02 19:25:22.3-0.8, 10.46N, 84.21W, h113km, 3km, MW3.9

CATAC 02 19:25:24.3-0.4, 10.1N, 84.4W, h90km, 4km, M3.3/12, MLV3.3/12, Error ellipse: s-maj=6.2km s-min=3.6km az=46.3, confirm

ISC 02 19:25:23.4-1.6, 10.34N, 0.05x-84.25W, 0.04, h108km, 8km, n61, 0.045/66, 4C-7D, Costa Rica

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Pital, V Poso, SARA, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like Las Campanas, El Transito, Panimavida, and various Wake Island stations.

Table with columns for station name, frequency, power, and other technical details. Includes stations like Zalesovo Beam, Makanchi Array, and Kuril'sk.

Main table with columns for Code, Station Name, Delta, Az, Op, Phase, ISC, h, s, ISC, Time, and Keril. Lists numerous stations including Kuril'sk, Shikotan, Yuzh-Kuril'sk, Misakicho, and many others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like Pauzhetka, Ashorobuto, Onbets, Kamikawa-asahi, and various Wake Island stations.





2d 20h

MOIG	Morelia	13.01 301	Pn	Pn	20 04 21.9 +1.6
ZAC	Zacatecas	17.52 309	P	Pn	20 04 53.4 -2.8
4A1A	deRidder	15.73 349	P	P	20 05 24.7 +2.4
441A			I Amb	I Amb	20 05 29.9
FLOC	Florencia	17.85 129	P	P	20 05 22.8 +0.1
FLOC			I Amb	I Amb	20 05 58.3
SDV	Santo Domingo	18.92 101	P	P	20 05 33.3 -1.4
SDV			I Amb	I Amb	20 05 51.1
VBMS	Vicksburg	18.97 357	P	P	20 05 35.2 +0.3
NATX	Nacogdoches	19.11 346	P	P	20 05 36.4 0.0
NATX			I Amb	I Amb	20 05 47.9
BRDY	Brady	20.06 335	P	P	20 05 46.1 -0.7
BRDY			I Amb	I Amb	20 05 47.6
WHTX	Lake Whitney	20.12 340	P	P	20 05 47.1 -0.4
WHTX			I Amb	I Amb	20 06 01.8
FW14	Alvarado	20.41 341	P	P	20 05 50.3 -0.3
FW14			I Amb	I Amb	20 06 05.2
FW13	Cleburne	20.44 340	P	P	20 05 50.6 -0.4
FW13			I Amb	I Amb	20 06 06.9
TXAR	Lajitas Array	20.81 323	P	P	20 05 54.5 -0.6
BAUV	El Baul	21.39 99	P	P	20 05 58.4 -2.9
MMAR	Mount Ida	21.60 335	P	P	20 06 03.5 +0.1
FCAR	Ozark Folk Cen	22.74 354	P	P	20 06 15.1 -0.1
DKNS	Dickens	22.93 335	P	P	20 06 17.2 -0.4
U49A	Red Boiling Sp	23.46 7	P	P	20 06 21.1 -1.6
PBMO	Poplar Bluff	23.51 358	P	P	20 06 23.5 +0.3
PBMO			I Amb	I Amb	20 06 45.2
S39A	Bolivar	24.65 353	I Amb	I Amb	20 06 49.2
ECSD	EROS Data Cent	31.07 350	P	P	20 07 31.0 +0.1
ECSD			I Amb	I Amb	20 07 32.4
SAML	Samuel	34.09 129	P	P	20 07 55.5 -2.2
SNOW	Snow King Moun	35.32 333	P	P	20 08 07.9 -0.4
LOHW	Long Hollow	35.38 333	P	P	20 08 08.4 -0.3
LOHW			I Amb	I Amb	20 08 10.0
TPAW	Teton Pass	35.43 333	P	P	20 08 08.6 -0.7
TPAW			I Amb	I Amb	20 08 11.1

**IDC 02 20:02:25.7-0.8, 1.21S, 127.29E, h0km, mb3.9/11, mbmp3.9/14, ML2.9/2, MS3.2/3, Error ellipse: s-maj=31.6km s-min=14.9km az=81.0**  
**DJA 02 20:02:31.8-0.1, 1.1S, 1x12.7E, h10km, M4.5/24, mB5.1/7, mb4.6/14, ML4.5/24, Mw(mB)4.5/7**  
**NEIC 02 20:02:32.8-1.9, 1.07S, 0.06E, 126.95E, 0.07, h35km, 2km, mb4.4/5, Error ellipse: s-maj=12.4km s-min=9.6km az=246.0**

**ISC 02 20:02:32.3-0.5, 1.06S, 0.04E, 126.91E, 0.05, h34km, n55, z=42/57, mb4.0/14, 1C, Southern Molucca Sea**

Code	Station Name	Δ° AZ°	Phase ID	Time Res	ISC	h m s ISC
SANI	Sanana	1.34	223	P	Pn	20 02 54.1 -0.6
SANI			S	Sn	20 03 14.6 +3.3	
TNTI	Ternate	1.88	14	P	Pn	20 03 02.5 +0.5
TNTI			S	Sb	20 03 03.1 +1.0	
TNTI			S	Sb	20 03 09.8 +0.4	
NLAI	Namlea	2.17	175	P	Pn	20 03 06.3 +0.2
AAI	Ambon	2.91	154	P	Pn	20 03 17.8 +1.6
AAI			S	Sn	20 03 53.3 +3.3	
MSAI	Masohi	3.04	138	P	Pn	20 03 19.7 +1.7
MSAI			S	Sn	20 03 56.8 +3.1	
KMSI	Kibinong	3.35	299	P	Pn	20 03 23.8 +1.6
KMSI			S	Sn	20 04 04.8 +4.0	
LUWI	Luwuk	4.13	270	P	Pn	20 03 33.5 +0.4
LUWI			P	Pn	20 03 33.5 +0.4	
SWI	Sorong	4.36	87	S	Sn	20 03 39.2 +3.0
SWI			S	Sn	20 04 30.5 +4.7	
SGSI	Sangihe	4.91	344	P	Pn	20 03 47.1 +3.3
KDI	Kendari	5.16	236	P	Pn	20 03 49.2 +2.0
MRSI	Marisa	5.20	287	P	Pn	20 03 50.5 +2.8
APSI	Ampanga	5.26	272	P	Pn	20 03 50.0 +1.5
FAKI	Fak Fak	5.65	109	P	Pn	20 03 54.3 +0.3
FAKI			P	Pn	20 03 54.1 +0.1	
FAKI			S	Sn	20 05 02.2 +4.5	
BBSI	Bau Bau	6.17	224	P	Pn	20 04 03.7 +2.6
BBSI			P	Pn	20 04 07.1 +1.5	
TOLJ	Toilitoli	6.49	289	P	Pn	20 04 14.9 +1.4
PCII	Palu	7.07	271	P	Pn	20 04 17.1 +2.6
MPSI	Mapaga	7.14	281	P	Pn	20 04 18.9 +2.7
KMPI	Kaimana, Papua	7.27	111	P	Pn	20 04 18.9 +2.7
RKPI	Ransiki, Papua	7.28	94	P	Pn	20 04 19.5 +3.1
TTSI	Tana Toraja	7.35	254	P	Pn	20 04 18.8 +1.5
BNSI	Bone	7.56	244	P	Pn	20 04 22.0 +1.9
BNSI			P	Pn	20 04 24.4 +2.4	
SPSI	Sidrap Palu	7.69	248	P	Pn	20 04 30.9 +2.6
BSSI	Bau Bau, Buton	8.15	232	P	Pn	20 04 30.9 +2.6
KAPI	Kappang	8.15	241	Pn	Pn	20 04 30.9 +2.6
KAPI			Pn	Pn	20 04 31.0 +2.7	
EDFI	Ende, Flores	9.23	214	P	Pn	20 04 46.8 +3.5
WYLD	Lahad Datu	10.44	307	Pn	Pn	20 05 02.7 +3.1
MTN	Monton Dam	12.43	160	Pn	Pn	20 05 26.1 +0.9
JAY	Jayapura	13.87	96	LR	LR	20 12 58.4
FITZ	Fitzroy Crossi	16.98	184	Pn	Pn	20 06 21.8 -5.5
FITZ			P	Pn	20 06 21.8 -5.5	
WRA	Warramunga Arr	20.12	159	P	P	20 06 56.8 -6.8
COEN	Coen	20.57	129	P	P	20 07 07.4 -1.1
COEN			I Amb	I Amb	20 07 09.9	
PMG	Port Moresby	21.79	113	LR	LR	20 17 33.3
AS31	Alice Springs	23.47	164	P	P	20 07 36.4 -2.6
ASAR	Alice Springs	23.47	164	P	P	20 07 33.9 -5.2
ASAR			P	P	20 07 33.5 -5.6	
BBOO	Buckleboo	32.73	166	P	P	20 08 59.9 -2.1
BBOO			I Amb	I Amb	20 08 59.9 -2.1	
STKA	Stephens Creek	33.64	157	P	P	20 09 09.3 -0.6
STKA			P	P	20 09 07.2 -2.8	
PZH	Panzhihua	36.31	20	PKP	PKP	20 09 35.7 0.0
KSR5	Korea Array	36.34	1	P	P	20 09 50.0 0.0
MJAR	Matsushiro Arr	38.86	15	P	P	20 09 51.8 -2.7
MJAR			LR	LR	20 24 09.2	
USRK	Ussuriysk Ar	45.29	5	P	P	20 10 45.0 -1.7
USRK			P	P	20 10 45.0 -1.7	
BNX	BinXian	46.60	0	P	P	20 11 04.1 +7.0
BNX			pmax	pmax		
SOMN	Songino Array	51.88	343	P	P	20 11 37.7 +0.1
PETK	Petropavlovsk	59.80	21	P	P	20 12 33.7 -0.3
PKAR	Makanchi Array	61.60	327	P	P	20 12 46.7 +0.2
PKAR			P	P	20 12 46.7 +0.2	
KURBB	Kurchatov Arra	65.87	329	P	P	20 13 15.0 +0.4
BVAR	Borovoy Array	71.43	328	P	P	20 13 50.1 +0.9
BVAR			P	P	20 13 50.1 +0.9	

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Code	Station Name	Δ° AZ°	Phase ID	Time Res	ISC	h m s ISC
TIXI	Tiksi	72.60	1	P	P	20 13 54.3 -1.5
TIXI			I Amb	I Amb	20 13 56.0	
QSPA	South Pole Qui	88.88	180	P	P	20 15 23.0 0.0
ILAR	Eielson Array	89.33	25	P	P	20 15 24.9 -0.1
ILAR			P	P	20 15 24.9 -0.1	
NEIC 02 20:04:54.8-0.8, 33.838N, 0.005E, 117.09W, 0.02, h14km, 6km, Error ellipse: s-maj=2.3km s-min=0.8km az=94.0						
PAS 02 20:04:55.0-0.8, 33.838N, 0.010E, 117.10W, 0.02, h11km, 7km, ML3.1/209, ML2.8/50(NEIC), Error ellipse: s-maj=2.3km s-min=1.4km az=89.0, Southern California						
PEC	Perris	0.07	314	Op	ISC	20 04 39.4 +1.5
BBSC	Beaumont Base	0.13	50	Pg	ISC	20 04 58.6 0.0
BBSC			Sg	ISC	20 05 01.1 +0.2	
HMTA	Hemet	0.15	149	Pg	ISC	20 04 59.0 0.0
HMTA			Sg	ISC	20 05 01.4 -0.1	
CFT	Crafton Hills	0.20	357	Pg	ISC	20 05 02.9 +1.6
DCR	Domenigoni Val	0.20	159	Pg	ISC	20 05 01.8 -0.1
DGR	Dobson	0.20	277	Pg	ISC	20 05 02.7 -0.1
PGB	Polly Butte	0.21	137	Pg	ISC	20 04 59.9 -0.1
PGB			Sg	ISC	20 05 02.9 -0.2	
BOB	Bachelor Mtn.	0.23	168	Pg	ISC	20 05 03.5 -0.1
RSBC	Riverside Bore	0.23	305	Pg	ISC	20 05 00.1 -0.3
MURC	Murrieta	0.25	199	Pg	ISC	20 05 04.5 +0.3
SVD	Seven Oaks Dam	0.27	360	Pn	ISC	20 05 04.8 +0.1
RVR	Riverside	0.28	304	Pn	ISC	20 05 04.5 -1.1
HLNC	Highland	0.30	340	Pn	ISC	20 05 05.9 0.0
CFSC	Central Fire S	0.31	330	Pn	ISC	20 05 06.4 +0.5
CLTC	Calceiric	0.31	324	Pg	ISC	20 05 07.1 +1.1
ELS	Elsinore Mount	0.34	235	Pg	ISC	20 05 02.2 -0.1
ELS			I AML		20 05 07.1	
FON	Fontana	0.38	312	Pg	ISC	20 05 02.8 -0.4
GVA	Garner Valley	0.39	116	Pg	ISC	20 05 07.9 -0.4
GVA			Sg	ISC	20 05 02.9 -0.4	
CDR	Cary Ranch	0.41	132	Pg	ISC	20 05 08.8 -0.2
MLSC	Mira Loma	0.42	293	Pg	ISC	20 05 09.0 -0.4
DEVC	Devers	0.44	77	Pg	ISC	20 05 04.0 -0.2
BBRC	Big Bear Solar	0.45	19	Pg	ISC	20 05 03.9 -0.4
SGRC	Sand Springs	0.45	119	Pg	ISC	20 05 04.2 -0.2
SNDJ	J Saunders Pla	0.49	125	Pg	ISC	20 05 12.1 +0.3
BZNA	Buzz No. s Pla	0.50	134	Pg	ISC	20 05 11.8 -0.2
CSP	Cedar Springs	0.51	335	Pg	ISC	20 05 05.1 -0.3
CSP			Pg	ISC	20 05 12.0 -0.2	
CHNC	Chino	0.51	288	Pg	ISC	20 05 05.2 -0.3
CHNC			Sg	ISC	20 05 12.5 -0.3	
PLM	Palomar	0.52	158	Pg	ISC	20 05 12.5 -0.3
PFO	Pinyon Flats O	0.58	113	Pg	ISC	20 05 06.2 -0.6
PFO			Sg	ISC	20 05 13.9 -0.5	
EW2	E Wide Canyon	0.58	80	Pg	ISC	20 05 14.3 -0.2
XPFO	Pinyon Flat C	0.58	113	Pg	ISC	20 05 11.8 -0.1
SSK	Sunset Peak	0.62	327	Pg	ISC	20 05 06.9 -0.7
PMD	Palm Desert	0.63	108	Pg	ISC	20 05 15.0 -1.0
BLAC	Blackrock camp	0.63	69	Pg	ISC	20 05 07.3 -0.4
BLAC			Sg	ISC	20 05 15.7 -0.5	
PSRC	Puddingstone R	0.64	293	Pg	ISC	20 05 16.1 -0.3
GORC	Green Oak Res	0.69	189	Pg	ISC	20 05 13.9 -0.1
BREC	Barre Substati	0.74	268	Pg	ISC	20 05 10.2 -0.1
BREC			Pg	ISC	20 05 18.9 -0.5	
MATG	Mataguay Scout	0.74	149	Pg	ISC	20 05 09.3 -0.6
MTG			Sg	ISC	20 05 19.0 -0.6	
VTV	Victorville	0.76	345	Pg	ISC	20 05 09.2 -0.8
ADO	Adelanto Recei	0.77	339	Pg	ISC	20 05 09.8 -0.5
ADO			Pg	ISC	20 05 19.6 -0.7	
GMT	Goat Mountain	0.76	53	Pg	ISC	20 05 09.3 -1.







comp=Z.86nm,21.6s,baz=160,slow=42  
0.4nm,0.6s  
MKAR Makanchi Array 51.80 55 P P 22 01 19.8 +1.2  
0.8nm,0.8s,baz=282,slow=1.1,SNR=8.7  
0.8nm,0.8s  
SONM Songo Array 66.80 47 P P 22 03 03.0 +0.5  
0.5nm,0.7s,baz=270,slow=7.2,SNR=3.2  
0.5nm,0.7s

SDD 02 21:54:01.6:1.6, 19:47N:72:77W, h15km, 999km, MD3.2,  
ML2.3, MVW2.3  
SSNC 02 21:54:02.3:1.5, 19:79N:72:59W, h0km, 8km, MD2.9,  
ML2.1  
ISC 02 21:54:01.6:1.5, 19:62N:0:09:72.72W, 0:04, h17km, 12km,  
n12, r131/21, 1C-1D, Haiti region

Code	Station Name	Δ° AZ°	Phase ID	ISC	Time	Res
					h m s	h s
MCDR	Montecristi	1.04 74	eP	Pb	21 54 21.5	+0.3
MCDR	Port-au-Prince	1.16 160	eP	Pg	21 54 24.6	+0.6
PAPH			eS	Sn	21 54 41.3	+2.8
PAPH			eS	IAML	21 54 42.7	
PAPH			eS	IAML	21 54 43.8	
PAPH			eS	IAML	21 54 43.8	
REDR	Restauracion	1.33 109	eP	Pn	21 54 20.5	-4.9
REDR			eS	Sn	21 54 31.7	-1.1
REDR			eS	IAML	21 54 41.7	
SDDR	Presa de Saban	1.50 115	eP	Pn	21 54 27.2	-0.4
SDDR			eS	Sn	21 54 45.9	-1.0
SDDR			eS	IAML	21 54 46.0	
SDDR			eS	IAML	21 54 48.3	
SDDR			eP	Pn	21 54 27.2	-0.4
SDDR			eS	Sn	21 54 46.5	-0.4
SDDR			eS	IAML	21 54 51.2	
MASC	Masc	1.52 292	eP	Pb	21 54 29.9	+0.5
MASC			eS	Sg	21 54 50.5	+0.3
MASC			eS	IAML	21 54 52.8	
MASC			eS	IAML	21 54 53.7	
QMBU	Quimbuelo	2.05 287	eP	Pn	21 54 37.1	+1.8
QMBU			eS	Sb	21 55 03.1	-0.5
QMBU			eS	IAML	21 55 03.6	
QMBU			eS	IAML	21 55 03.6	
GTBY	Guantanamo Bay	2.27 278	eP	Pb	21 54 40.5	-1.6
GTBY			eS	Sb	21 55 08.0	-1.9
GTBY			eS	IAML	21 55 10.7	
GTBY			eS	IAML	21 55 16.7	
GTBY			eP	Pb	21 54 40.4	-1.6
GTBY			eS	Sb	21 55 08.5	-1.4
GTBY			eS	IAML	21 55 42.7	
NMDO	Nuevo Mundo	2.32 294	eP	Pn	21 54 39.8	+0.8
NMDO			eS	Sn	21 55 08.7	+1.5
NMDO			eS	IAML	21 55 09.2	
NMDO			eS	IAML	21 55 11.3	
PINC	Pinares de May	3.01 287	eP	Pn	21 54 49.2	+0.7
PINC			eS	Sn	21 55 24.5	+0.3
PINC			eS	IAML	21 55 26.3	
PINC			eS	IAML	21 55 26.4	
MARVS	Santiago de Cu	3.02 278	eP	Pn	21 54 49.4	+0.8
MARVS			eS	Sn	21 55 23.9	+0.5
MARVS			eS	IAML	21 55 29.6	
MARVS			eS	IAML	21 55 32.8	

ISC 02 21:59:25.5:3.7, 56:38S:150:82E, h0km, mb3.6/4,  
mbmp3.7/4, MS3.4/3, Error ellipse: s-maj=356.3km  
s-min=26.2km az=75.0  
ISC 02 21:59:26.9:3.4, 56:45S:165:15E, h10km, n15, r05/47/6,  
mb3.8/4, MS3.4/3, West of Macquarie Island

Code	Station Name	Δ° AZ°	Phase ID	ISC	Time	Res
					h m s	h s
VNDA	Vanda	21.59 174	Op	Pb	22 04 16.6	+0.2
URZ	Urewera	25.12 55	LR	LR	22 13 44.6	
STKA	Stevens Creek	25.33 341	P	P	22 04 54.1	+0.4
H01W1	Cape Leeuwin H	32.90 295	T	T	22 39 05.2	
H01W2	Cape Leeuwin H	32.91 295	T	T	22 39 04.3	
H01W3	Cape Leeuwin H	32.92 295	T	T	22 39 08.8	
NWA0	Narrogin (SRO)	32.97 301	LR	LR	22 14 44.0	
ASAR	Alice Springs	34.96 332	P	P	22 06 19.3	+0.2
WRA	Warramunga Arr	38.42 334	P	P	22 06 48.2	-0.3
KAPI	Kappang	56.87 322	LR	LR	22 31 44.8	
H08S2	Diego Garcia H	77.26 275	T	T	23 35 58.9	
H08S1	Diego Garcia H	77.27 275	T	T	23 34 02.4	
H08S3	Diego Garcia H	77.28 275	T	T	23 34 00.2	
FINES	FINES Array B	151.81 303	PKPbc	PKIKP	22 19 20.1	-0.5
ARCES	ARCES Array B	153.02 321	PKPbc	PKIKP	22 19 22.8	-0.2

NEIC 02 22:28:57.3:1.8, 18:6S:0:1x177:7W, 0:2, h528km, 9km,  
mb4.2/25, Error ellipse: s-maj=29.1km s-min=12.8km  
az=21.0  
ISC 02 22:28:58.1:8.5, 18:79S:177:88W, h532km, 93km, mb3.0/7,  
mbmp3.8/7, Error ellipse: s-maj=32.9km s-min=30.0km  
az=89.0  
ISC 02 22:29:00.2:0.7, 18:55S:0:2x178:1W, 0:1, h557km, n39,  
r05/4/38, mb4.1/20, Fiji Islands region

Code	Station Name	Δ° AZ°	Phase ID	ISC	Time	Res
					h m s	h s
MSVF	Nonsavu	3.74 282	Op	P	22 30 18.6	+2.2
FUTU	Futogata	4.21 260	P	P	22 30 18.8	-5.5
EIDS	Eidsvold	29.35 351	P	P	22 34 18.7	+0.2
EIDS			IAMB	IAMB	22 34 19.3	
COEN	Coen	37.40 271	P	P	22 35 27.7	+1.1
TARU	Tasmania Unive	37.97 223	P	P	22 35 31.9	+1.1
WRR	Warramunga Arr	44.65 260	P	P	22 36 24.8	+0.7
WRR			IAMB	IAMB	22 36 29.5	
WBO	Warramunga Arr	44.77 260	P	P	22 36 25.4	+0.4
WBO			IAMB	IAMB	22 36 48.2	
WRA	Warramunga Arr	44.80 260	P	P	22 36 25.3	0.0
ASAR	Alice Springs	44.90 255	P	P	22 36 26.5	+0.5
ASAR	Alice Springs	44.90 255	P	P	22 36 27.1	+1.1
KNRA	Kunurra	50.27 265	P	P	22 37 10.2	+0.8
QSPA	South Pole Qui	71.52 180	P	P	22 39 23.9	-1.0
QSPA	South Pole Qui	71.52 180	P	P	22 39 23.1	-1.8
S12K	Black Hills	75.19 9	P	P	22 39 44.6	-1.1

Code	Station Name	Δ° AZ°	Phase ID	ISC	Time	Res
					h m s	h s
OHAK	Old Harbor	78.28 13	P	P	22 40 02.7	+0.2
O14K	Tiguykaiuiv M	78.73 9	P	P	22 40 03.8	-1.1
O14K			IAMB	IAMB	22 40 46.0	
O15K	Ungalithiuk R	78.88 9	P	P	22 40 05.0	-0.7
O15K			IAMB	IAMB	22 40 28.0	
KDAK	Kodiak Island	78.95 14	P	P	22 40 06.4	+0.4
KDAK			IAMB	IAMB	22 40 41.7	
O16K	Kokwok River B	79.56 10	P	P	22 40 08.2	-1.0
SYI	Shuyak Island	79.74 13	P	P	22 40 09.8	-0.4
SYI			IAMB	IAMB	22 40 35.0	
N15K	Kwethluk R	79.79 9	P	P	22 40 10.9	+0.4
P18K	Big Mountain	79.88 12	P	P	22 40 10.9	-0.1
P18K			IAMB	IAMB	22 40 11.3	
O18K	Koikuh Hills	80.31 11	P	P	22 40 13.2	0.0
O18K			IAMB	IAMB	22 40 14.3	
J05D	Fort Rock, OR	80.64 38	P	P	22 40 14.6	-0.9
K15K	Wolf Creek Mtn	81.63 8	P	P	22 40 20.0	0.0
K15K			IAMB	IAMB	22 40 21.8	
M22K	Willow	83.08 13	P	P	22 40 26.9	-0.3
GHO	Glory Hole Cre	83.35 13	P	P	22 40 29.0	+0.3
GHO			IAMB	IAMB	22 40 29.4	
K20K	Castle Rocks	83.77 11	P	P	22 40 31.3	+0.6
CAST	Castle Rocks	84.19 11	P	P	22 40 31.7	-1.0
TRF	Thorofare Moun	84.57 12	P	P	22 40 34.3	-0.5
TRF			IAMB	IAMB	22 40 34.9	
RND	Reindeer	84.82 13	P	P	22 40 36.5	+0.6
RND			IAMB	IAMB	22 40 36.6	
TXAR	Lajitas Array	86.09 57	P	P	22 40 43.8	+0.9
TXAR			IAMB	IAMB	22 40 43.8	+0.9
ILAR	Eielson Array	86.44 13	P	P	22 40 42.8	-0.8
ILAR			IAMB	IAMB	22 40 42.8	-0.8
PDAR	Pineale Array	87.61 43	P	P	22 40 51.9	+2.1
PDAR			IAMB	IAMB	22 40 51.9	+2.1
YKA	Yellowknife Ar	94.78 25	P	P	22 41 22.5	+0.4
YKA			IAMB	IAMB	22 41 22.5	+0.4
BRTR	Keeskin Array B	145.43 314	PKPbc	PKPbc	22 47 37.1	+0.3
BRTR			PKPbc	PKPbc	22 47 39.8	-0.8
CLL	Colt	146.14 347	PKPbc	PKIKP	22 47 39.8	-0.8
CLL			PKPbc	PKIKP	22 47 41.1	-1.4
MMAI	Mason Meron Ar	146.73 302	PKPbc	PKIKP	22 47 41.1	-1.4
GERES	GERES Array B	148.30 345	PKPbc	PKIKP	22 47 45.3	0.0
GERES			PKPbc	PKIKP	22 47 45.3	0.0

ISC 02 22:46:17.1:1.8, 35:94S:178:51E, h0km, mb4.2/4,  
mbmp4.2/5, ML4.5/1, MS3.4/1, Error ellipse: s-maj=44.2km  
s-min=32.7km az=142.0  
WEL 02 22:46:27.6:0.9, 36:57S:178:51E, h12km, M3.6/23,  
ML3.8/25, MLv3.6/23, Error ellipse: s-maj=10.1km  
s-min=4.3km az=58.4, confirmed  
NOU 02 22:46:29.1, 36:69S:178:06E, h109km, MLv4.2/18, Off E,  
Coast of Niue, h2.2  
NEIC 02 22:46:30.9:1.5, 35:9S:0:1x178:1E, 0:1, h92km, 7km,  
mb4.7/14, Error ellipse: s-maj=16.6km s-min=11.5km  
az=204.0  
ISC 02 22:46:31.5:0.9, 36:76S:0:07:178:09E, 0:06, h112km, 6km,  
n159, r05/2/166, mb4.4/11, 1C, Off east coast of North  
Island

Code	Station Name	Δ° AZ°	Phase ID	ISC	Time	Res
					h m s	h s
MXZ	Matakoao Point	0.82 168	Op	Pn	22 46 49.3	-1.8
MXZ	Matakoao Point	0.82 168	P	Pn	22 47 03.8	-2.1
MXZ	Matakoao Point	0.82 168	P	Sn	22 46 48.1	-3.0
MXZ	Matakoao Point	0.82 168	P	Sn	22 47 03.8	-2.1
HAZ	Te Kaha	1.03 194	P	Sn	22 46 50.7	-2.1
HAZ			S	Sn	22 46 52.7	-0.2
WIZ	White Island	1.05 223	P	Sn	22 46 51.3	-2.0
WIZ			S	Sn	22 47 08.4	-1.5
WMGZ	Waioataitini S	1.09 166	P	Sn	22 46 53.1	-0.7
WMGZ			S	Sn	22 47 11.4	+0.8
PKGZ	Pukihira	1.11 181	P	Sn	22 46 53.4	-0.5
RUGZ	Raukumara Rang	1.25 195	P	Sn	22 46 54.7	-1.3
PUZ	Puketitii	1.32 174	P	Sn	22 46 55.3	-1.0
PUZ			S	Sn	22 47 16.0	+0.9
WHRZ	Whale Island	1.41 219	P	Sn	22 46 57.7	+0.3
WHRZ			S	Sn	22 47 19.9	+2.9
TWGZ	Tauwhareparea	1.42 184	P	Sn	22 46 57.2	+0.2
TWGZ			S	Sn	22 47 20.3	+3.0
MWZ	Matawai	1.64 196	P	Sn	22 46 59.7	-0.4
OPRZ	Ohinepanea	1.64 228	P	Sn	22 46 59.0	-1.0
MARZ	Manawahe	1.67 222	P	Sn	22 47 00.6	+0.2
TKGZ	Te Karaka	1.89 187	P	Sn	22 47 03.3	-0.4
URZ	Urewera 200	1.85 209	Pn	Pn	22 46 59.9	-0.7
URZ	96nm, 0.3s, baz=6.5, slow=2.8, SNR=393		Sn	Sn	22 47 23.0	+0.1
URZ	102nm, 0.3s, baz=355, slow=22, SNR=32					



Table with columns: Code, Station Name, Az, Op, ISC, h, m, s, ISC, Res. Includes stations like OSTas, NEUBurg, Ujice, BRG, etc.

IDC 02 23:08:06.0-8.35;81N-27.17E, h0km, mb3.9/15, mbmp3.8/24, ML3.6/10, Error ellipse: s-maj=17.9km s-min=12.8km az=7.0

Table with columns: Code, Station Name, Az, Op, ISC, h, m, s, ISC, Res. Includes stations like KARP, ARG, NISR, etc.

Main table with columns: DAT, S, Sn, Az, Op, ISC, h, m, s, ISC, Res. Includes stations like DAtca, BONA, BDRM, TURn, etc.

Main table with columns: MVOU, S, Sn, Az, Op, ISC, h, m, s, ISC, Res. Includes stations like Mavrovouni, KOT, FAYoum, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like CMAR Chiang Mai Arr, KSRS Korea Array, ILAR Eielson Array, ULM Lac du Bonnet, MJAR Matsushiro Arr.

NEIC 02 23:08:49.4, 69.52N; 144.55W, h17km
AEIC 02 23:08:49.2, 69.50N; 144.55W, h14km, 5km
ML3.7, mlp3.9, 9.5(NEIC), ML3.8, 9.136(NEIC), Mw3.7, 3.2(NEIC),
Error ellipse: s-maj=6.2km s-min=3.2km az=19.7.
NEIC 02 23:08:50.3, 69.60N; 144.49W, h10km, 1km
Error ellipse: s-maj=6.4km s-min=4.4km az=24.0, Moment
Tensor Solution. Moment tensor: Scale 10^14 Nm.

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Lists numerous stations including C27K Jago River, C26K Camden Bay, D25K Kavik River, D27M Malcolm River, F21K Chitina Glacier, etc.

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Lists numerous stations including F21K Chitina Glacier, PRP Porcupine Dome, H29M Whitestone, INK Inuvik, H29K Avaraat Lake, D19K Kuna River, etc.

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Lists numerous stations including RC01 Rabbit Creek A, GLI Glacier Island, MPMY Sheldon Lake, K17K Iditarod, etc.

HEL 02 23:17:25.0, 67.76N; 20.14E, h0km, ML1.5, Suspected explosion
UPP 02 23:17:25.0, 67.83N; 20.22E, h0km, ML1.8, Unknown, Sweden

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Lists stations like KUA Kuvvaara, RATU Laukkulusta, KUVU Salmi, LANU Lannavaara, etc.

NEIC 02 23:36:35.4, 1.7, 34.062N; 0.005, 117.492W; 0.009,
h5km, 1km, Error ellipse: s-maj=2.1km s-min=1.4km
az=226.0

PAS 02 23:36:36.0, 1.5, 34.053N; 0.007, 117.50W; 0.01,
h5km, 2km, ML3.2, ML3.1, 79(NEIC), Error ellipse:
s-maj=1.4km s-min=1.1km az=74.0, Southern California

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, ISC, h, m, s, ISC. Lists stations like MLSC Mira Loma, MLSC Fontana, FON Fontana, RVR Riverside, etc.



Table with columns: Code, Station Name, Azimuth, Elevation, Distance, Azimuth Error, Elevation Error, Distance Error, Station Type, and Remarks. Includes stations like Riverside Bore, Central Fire S, Sunset Peak, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Distance, Azimuth Error, Elevation Error, Distance Error, Station Type, and Remarks. Includes stations like Cerro Prieto, BLYC, Nelson, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Distance, Azimuth Error, Elevation Error, Distance Error, Station Type, and Remarks. Includes stations like Bigot, Savane Anatole, Belin, etc.









Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like CONRAD Observa, CKRC Desky Krumlov, KHC Kasperke Hory, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like ESPN Las Esperanzas, ESPN Las Esperanzas, KNTTU Kakint', etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like MRZ Mangatainoka R, MRZ Mangatainoka R, TIWZ Tintock, etc.

IDC 03 03:08:29.2.2.1.35.65S:178.28E, h218km, 17km, mb4.1/8, mbmp4.7/9, Error ellipse: s-maj=22.0km s-min=13.5km az=44.0

NEIC 03 03:08:29.3.2.6.36.3S:0.1x177.61E:0.09, h237km, 5km, mb4.6/25, Error ellipse: s-maj=17.1km s-min=10.4km az=193.0

NOU 03 03:08:29.0.36.41S:177.48E, h263km, MLV4.1/14, Off E. Coast of N. Island, N.Z.

WEL 03 03:08:31.2.1.2.36.5S:11x178.8E, h214km, 12km, mb4.3/76, ML4.7/8, MLV4.3/76, Error ellipse: s-maj=16.4km s-min=8.2km az=37.9, confirmed

ISC 03 03:08:29.7.0.7.36.34S:0.06:177.70E:0.06, h256km, 5km, n236, e1974/246, mb4.6/27, 6C, Off east coast of North Island

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like MXZ Matakaoa Point, MXZ Matakaoa Point, MXZ Matakaoa Point, etc.

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like MRZ Mangatainoka R, MRZ Mangatainoka R, TIWZ Tintock, etc.

UCR 03 03:04:26.9.1.2.9.77N:84.21W, h50km, 3km, MW3.6

CATAC 03 03:04:27.8.0.2.10 N:12x8 W:4V, h36km, 2km, M3.9/19, MLV3.9/19, Error ellipse: s-maj=5.2km s-min=2.5km az=47.6, confirmed

ISC 03 03:04:28.3.1.2.9.77N:84.19W:0.03, h42km, 5km, n129, e1910/134, Costa Rica

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like ACOS Acosta, ACOS Acosta, ACOS Acosta, etc.



Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
PZH	PanZhiHua	94.95	299	P	P	03 21 24.7	+1.5
PZH	comp=2.8,0nm,1.0s				pmax		
PZH	comp=2.100nm,5.5s				pmax		
HHC	Hu-ho-hao-te	97.85	316	eP	Pdf	03 21 39.0	+3.0
HHC	comp=2.8,0nm,0.8s				pmax		
LZH	Lanzhou	99.44	308	eP	Pdf	03 21 46.5	+3.2
EYMN	Ely	116.45	299	eP	PKP	03 26 41.7	-0.6
W57A	Gilead	118.63	66	eP	PKPK	03 26 46.6	-0.4
MKAR	Makanchi Array	118.75	309	eP	PKP	03 26 44.2	-2.7
FCC	Fort Churchill	119.36	37	eP	PKP	03 26 45.6	-2.0
KURBB	Kurchatov Arr	122.48	312	eP	PKP	03 26 51.8	-2.0
KKAR	Karatay Array	125.20	301	eP	PKP	03 26 58.4	-1.3
BVAR	Borovoye Array	127.97	313	eP	PKP	03 27 02.6	-1.7
SPITS	Spitsbergen Arr	137.31	354	eP	PKP	03 27 19.5	-1.8
ARCES	ARCCESS Array B	143.46	344	eP	PKP	03 27 29.2	-1.4
GEVA	Gevass	144.15	287	eP	PKP	03 27 33.7	-1.2
MARDIN	Mardin	145.72	289	eP	PKP	03 27 36.6	-0.8
KOPD	Kop Dag	146.39	289	eP	PKP	03 27 41.6	-1.7
MMAI	Mount Meron Ar	148.94	275	eP	PKP	03 27 47.0	-1.4
MMAI	comp=2.2,0nm,0.4s,baz=71,slow=7.5,SNR=6.9				PKP		
FIAT	FINESSE Array S	149.17	334	eP	PKP	03 27 53.9	+1.6
FINES	FINESSE Array B	149.17	334	eP	PKP	03 27 45.3	-1.6
DBIC	Dimbokro	150.38	175	eP	PKP	03 27 51.1	-0.8
DBIC	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				PKP		
BR131	Beskin Array S	151.61	288	eP	PKP	03 27 51.4	-2.2
BRTR	Beskin Array B	151.61	288	eP	PKP	03 27 52.2	-1.4
BRTR	Beskin Array B	151.61	288	eP	PKP	03 27 52.0	-1.5
ILGA	Ilgaz	151.63	291	eP	PKP	03 27 52.5	-1.4
AKASG	Malin Array Be	153.25	312	eP	PKP	03 27 54.9	-1.7
HFS	Hagfors	154.05	342	eP	PKP	03 27 56.4	-1.7
HFS	comp=2.1,5nm,0.7s,baz=66,slow=4.0,SNR=5.8				PKP		

IDC 03:03:27.1±1.8,55.49N±163.19E,h0km,mb3.5/6,  
 mbmp3.57,ML2.2/1,MS2.9/3,Error ellipse: s-maj=46.4km  
 s-min=22.6km az=143.0  
 KRSC 03:03:27.28±1.1,55.14N±163.50E,h47km±23km,ML4.0  
 ISC 03:03:27.3±1.5,55.18N±163.50E,0.05,h11km±10km,  
 n49.1±186/51,mb3.7/6,Off east coast of Kamchatka

Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
KBTR	Krutoberegovo	1.10	340	eP	Pb	03 27 48.8	+0.5
KBTR	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pb		
KBG	Krutoberegovo	1.17	338	eP	Pb	03 27 48.8	+0.3
KBG	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pb		
ETL	Mys Kozlova	1.20	239	eP	Sg	03 27 50.5	+0.5
MKZ	Mys Kozlova	0.3	208	eP	Sg	03 28 04.8	-1.0
BKI	Bering	1.42	88	eP	Pg	03 27 54.1	-0.3
BKI	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pg		
BZGR	Bezmyannyi-Gr	1.77	297	eP	Pb	03 27 59.7	0.0
TUMD	Tumrok D	1.78	272	eP	Pb	03 27 59.2	-0.7
SMKR	Semkarok	1.81	322	eP	Pb	03 28 00.7	+0.1
CIRR	Tsirir	1.82	302	eP	Pb	03 28 00.6	-0.1
BZMR	Bezmyannaya	1.87	295	eP	Pb	03 28 01.1	-0.4
BZWR	Bezmyannaya-We	1.87	295	eP	Pb	03 28 01.6	-0.1
KMNR	Kamenistaya	1.95	289	eP	Pb	03 28 02.5	-0.3
KIRR	Kirishev	1.95	295	eP	Pb	03 28 02.6	-0.4
KRSR	Krestovskiy	1.96	303	eP	Pb	03 28 02.1	-0.9
KLY	Klyuchi	1.97	306	eP	Pb	03 28 01.1	+0.5
KLY	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pb		
KPT	Kopytov	2.02	294	eP	Pb	03 28 03.9	-0.2
KOZ	Kozyrevsk	2.24	295	eP	Pb	03 28 06.9	-0.8
SRDR	Sredinnyy	2.42	300	eP	Pb	03 28 09.9	-1.0
KII	Karymskiy	2.62	246	eP	Pb	03 28 11.7	+2.1
ESO	Esso	2.83	287	eP	Pb	03 28 14.3	+1.9
SPN	Mys Shipunski	2.92	226	eP	Pb	03 28 13.7	+0.1
SPN	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pb		
NLC	Nalytchevo	3.16	232	eP	Pb	03 28 19.7	+2.7
SDLR	Sedlovina	3.31	237	eP	Pb	03 28 21.7	+2.6
SMAR	Somma	3.36	237	eP	Pb	03 28 22.4	+2.5
KRER	Koryakskiy	3.36	238	eP	Pb	03 28 23.1	+3.2
KRX	Krik	3.38	239	eP	Pb	03 28 23.3	+2.5
UGLR	Uglovaya	3.38	236	eP	Pb	03 28 22.6	+2.5
AVH	Avacha	3.39	238	eP	Pb	03 28 23.1	+3.0
KOK	Koryak	3.42	238	eP	Pb	03 28 23.3	+2.7
DALK	Dalny	3.52	248	eP	Pb	03 28 25.5	+3.6
GNL	Ganally	3.57	246	eP	Pb	03 28 27.2	+2.6
KRMR	Karymskiy	3.94	236	eP	Pb	03 28 30.7	+3.0
KRMR	comp=2.0,0nm,0.8s,baz=62,slow=2.5,SNR=12				Pb		
PETK	Petropavlovsk-	3.99	241	eP	Pb	03 28 30.1	+1.1
PETK	comp=2.0,0nm,0.8s,baz=64,slow=17,SNR=8.6				Pb		
PETK	1.8nm,0.3s,baz=40,slow=14,SNR=4.3				Sn	03 29 16.8	+1.7
RUS	Russkaya	4.04	229	eS	Sn	03 29 14.1	-2.1
QSSR	Ossora	4.09	357	eP	Pb	03 28 31.5	+1.8
MITVR	Mitovka	4.15	239	eP	Pb	03 28 32.9	+2.2
ASAK	Asacha	4.34	232	eP	Pb	03 28 36.3	+3.0
KDTR	Khodutka, Kamc	4.67	226	eP	Pb	03 28 39.3	+1.5
MA2	Magadan	8.16	308	LR	LR	03 32 47.6	
MJAR	Matsushiro Arr	25.41	223	P	P	03 32 56.2	+1.5
ILAR	Eielson Array	25.93	48	P	P	03 32 60.0	+0.8
ILAR	comp=2.0,0nm,0.8s,baz=267,slow=9.4,SNR=5.5				P		
SOMM	Songino Array	35.39	282	P	P	03 34 24.0	+1.0
H11N2	WAKE ISLAND Hy	35.48	174	T	T	04 13 38.7	
H11N3	WAKE ISLAND Hy	35.49	174	T	T	04 13 36.1	
H11N1	WAKE ISLAND Hy	35.50	174	T	T	04 13 14.8	
KURBB	Kurchatov Arr	48.43	302	P	P	03 36 08.1	-1.1
MKAR	Makanchi Array	49.05	296	P	P	03 36 12.6	-1.4
BVAR	Borovoye Array	50.65	309	P	P	03 36 23.9	-2.2
AAK	Ala-Archa	55.93	297	LR	LR	04 03 39.5	
FINES	FINESSE Array B	58.92	338	LR	LR	04 05 58.5	
FINES	comp=2.14nm,18.1s,baz=36,slow=39				LR		

RSNC 03:03:29.01±0.0,6°N±1°7'8"W±,h7km±2km,ML2.8,mb4.8,  
 mb5.3,ML2.4,mb(m)B4.7,Near west coast of Colombia

Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
POPC	Popayan, Colom	3.54	164	P	Pn	03 29 56.7	-0.7
PRAC	Prado	3.57	129	P	Pn	03 29 58.7	+1.1
BCIP	Isla Barro Col	3.84	226	P	Pn	03 29 59.8	-1.4
RSNC	03:03:29.54±0.0,6°N±1°7'2"W±,h4km±4km,ML2.1,ML2.0,						
Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
RUSC	La Rusia	0.6	256	Op	ISC	h m s ISC	
RUSC	Tame, Arauca	0.77	60	P	Sg	03 30 05.2	-1.2
TAMC	Tame, Arauca	0.77	60	P	Sg	03 30 13.8	-1.0
BARC	Barichara	0.90	307	P	Sg	03 30 07.5	-1.4
BARC	Barichara	0.90	307	P	Sg	03 30 18.4	-0.4
BARC	Barichara	0.90	307	P	Sg	03 30 09.9	-1.5
PAMP	Pampiona, Colo	1.30	349	P	Sg	03 30 22.0	-1.0
PAMP	Pampiona, Colo	1.30	349	P	Pg	03 30 17.4	-1.7
PAMP	Pampiona, Colo	1.30	349	P	Pg	03 30 16.9	-2.2
PAMP	Pampiona, Colo	1.30	349	P	Pg	03 30 17.0	-2.1
BRUC	Barrancabermej	1.57	306	P	Sn	03 30 22.0	-0.8
BRUC	Barrancabermej	1.57	306	P	Sn	03 30 43.2	-0.4
SPBC	San Pablo de B	1.65	256	P	Sn	03 30 23.2	-0.8
PTGC	Puerto Gaitan,	1.87	170	P	Sn	03 30 44.2	-1.5
PTGC	Puerto Gaitan,	1.87	170	P	Sn	03 30 25.4	-1.5
PTGC	Puerto Gaitan,	1.87	170	P	Sn	03 30 49.7	-1.2
CHIC	Chingaza	1.90	222	P	Sn	03 30 26.5	-1.1
CHIC	Chingaza	1.90	222	P	Sb	03 30 53.1	-0.7
PTBC	PUERTO BERRIO,	2.04	284	P	Sn	03 30 29.5	+0.2
PTBC	Villavicencio,	2.28	213	P	Sb	03 30 34.4	-1.6
VILC	Zaragoza, Cauc	2.78	301	P	Sg	03 31 08.1	+0.5
ZARC	Zaragoza, Cauc	2.78	301	P	Sn	03 31 14.6	+1.1
GU2Y	Guyana, Caidas	3.00	254	P	Sb	03 31 42.9	-0.1
GU2Y	Guyana, Caidas	3.00	254	P	Sb	03 31 23.6	-2.2

ASIEN 03:03:40:59.9,24:13N:121:53E,h25km,ML3.6,ML3.2,  
 Moment Tensor Solution. Moment tensor: Scale 10<sup>20</sup>Nm;  
 M<sub>11</sub>=6.42; M<sub>22</sub>=0.77; M<sub>33</sub>=7.33; M<sub>12</sub>=0.82; M<sub>13</sub>=1.25; M<sub>23</sub>=0.04;  
 Fault plane solution: M<sub>0</sub>7.06850x10<sup>20</sup> NP1=0.27000°,  
 δ45.27000°,λ78.17000°. NP2=196.84000°,δ45.95000°,  
 λ101.69000°. Principal axes: T Plg81.6180°,  
 Azm186.2880°; N Plg8.3750°, Azm6.6560°; P Plg0.3410°,  
 Azm278.6050°  
 TAP 03:03:40:59.9,24:13N:121:53E,h25km,ML3.6,B  
 JMA 03:03:40:59.20±0.2,24:1N:0:4:12:1E±,h26km±1km,  
 MV2.8/12,TAIWAN REGION  
 ISC 03:03:41:00.3±0.8,24:13N:0:0:12:1E±,h25km±4km,  
 n130,±0.9/1/232,2C-3D, Taiwan

Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
NACB	Ninganchiao	0.06	364	Op	ISC	h m s ISC	
NACB	Ninganchiao	0.06	364	Op	ISC	03 31 04.4	-0.2
TWD	Chiawan	0.07	145	Op	ISC	03 31 04.5	-0.2
TWD	Fush Village	0.07	63	Op	ISC	03 31 07.8	+0.2
ETL	Xiulin Townshi	0.10	318	Op	ISC	03 31 08.0	+0.2
ETLH	Hwalien	0.16	164	Op	ISC	03 31 05.6	+0.2
HWA	Hwalien	0.16	164	Op	ISC	03 31 09.9	+1.0
ETM	Tongmen	0.17	200	Op	ISC	03 31 05.3	-0.3
ETM	Heping Village	0.25	43	Op	ISC	03 31 09.0	-0.2
EHP	Aohua	0.26	39	Op	ISC	03 31 11.0	+0.2
EHP	Aohua	0.26	39	Op	ISC	03 31 06.5	-0.2
TEVL	Yanliu Villag	0.26	172	Op	ISC	03 31 06.3	-0.4
WHF	Hehuan Shan	0.27	274	Op	ISC	03 31 11.4	+0.3
WHF	Shiilin	0.33	200	Op	ISC	03 31 07.0	-

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like KAHZ, RAHZ, KRHZ, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like CEVE, Cero Verde, Cero Verde, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like GSPA, South Pole Qui, 44.58 180 P, etc.

IDC 03 03:54:57.8; 1.2, 10.795x161.46E, h0km, mb3.9/9, mbtmp3.9/10, ML4.1/1, MS3.6/5, Error ellipse: s-maj=30.4km s-min=22.7km az=122.0

ISC 03 03:55:02.0; 1.0, 10.805x161.46E:0.1, h28km, n19, r139/11, mb3.9, MS3.5/4, Bougainville-Solomon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like HNR, Honiara, 2.02 313 Pn, etc.

RSNC 03 03:44:39.6; 2.0, 3.7N; 5.8'2W; 1.7, h0km, M3.3, mb3.8, mB5.7, ML2.7, Mw(m)B5.2, South of Panama

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like GRC1, Gorgona, Isla, 4.16 92 P, etc.

MDD 03 03:53:31.4; 1.1, 32.61N; 16.80W, h4km, 5km, Mb4.5/15, M, mb3.9/12, Error ellipse: s-maj=9.1km s-min=-4.6km az=49.0

INMG 03 03:53:32.2; 1.3, 32.75N; 16.65W, h4km, ML2.3, Error ellipse: s-maj=3.2km s-min=-2.7km az=82.0, #DIST RANGE: LOCAL #IPMA\_REGION: NE Machicho (Madeira)

ISC 03 03:53:28.4; 1.1, 32.68N; 16.64W; 0.04, h33km, 3km, n20, r1568/38, 17C-1D, Madeira Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like FUL, Funchal, 0.21 262 IP, etc.

SJA 03 04:22:24.0; 0.7, 32.75S; 71.53W, h59km, 4km, ML4.9, MW4.8

NEIC 03 04:22:25.7; 1.6, 32.71S; 0.01; 71.40W; 0.04, h55km, 4km, mb4.9/102, Mw4.7/45, Mw5.0(GUC), Error ellipse: s-maj=5.5km s-min=1.5km az=74.0, Moment Tensor Solution. Moment tensor: Scale 10^16Nm; Mr0:0.6; Mw:1.13; Ms:1.07; Mv:0.35; Mw:0.82; Mw:0.50; Fault plane solution: Mo:1.51000x10^16 Np1:0.51139000, d69.60000, lambda:169.86000. NP2:0.244.95000, d80.50000, lambda:120.69000. Principal axes: T:1.5758, Plg21.0000, Azm110.0000; N:-0.1467, Plg67.0000; Azm269.0000; N:-1.4290, Plg7.0000; Azm17.0000;

NEIC 03 04:22:25.7; 3.2, 72S; 71.41W, h58km, VAD3

GUC 03 04:22:25.3; 0.7, 32.69S; 71.23W, h51km, 7km, mb4.8

WCO 03 04:22:25.0; 0.8, 32.74S; 71.40W, h63km, 2km, ML5.1

IDC 03 04:22:26.2; 0.5, 32.70S; 71.45W, h69km, 4km, mb4.1/14, mbtmp4.5/17, MS3.5/21, Error ellipse: s-maj=11.9km s-min=9.6km az=135.0

ISC 03 04:22:24.0; 3.2, 72S; 0.02; 71.47W; 0.03, h55km, 2km, h55km; P, n310, r151/351, m5.0/75, MS3.6/17, 16C-16D, Near coast of central Chile

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like VA06, Catapilco, 0.22 41 Op, etc.

SNET 03 03:47:32.2; 1.9, 12.97N; 89.51W, h37km, ML3.7

CATAC 03 03:47:33.0; 0.5, 13.1N; 89.51W, h25km, 2km, M3.6/24, MLV3.6/24, Error ellipse: s-maj=5.6km s-min=-3.2km az=31.3, confirmed

GCG 03 03:47:34.5; 0.5, 13.12N; 89.54W, h46km, 9km, MD3.9

ISC 03 03:47:35.9; 1.6, 13.11N; 0.06; 89.39W; 0.04, h40km, 10km, n72, r153/86, 1D, El Salvador

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like LALI, Alcalde de L, 0.39 10 Op, etc.

EGOM 298nm, SNR=1.0

EGOM La Gomera 4.53 186 Pn 03 54 34.5 -0.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

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EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

EGOM La Gomera 4.53 186 Pn 03 54 37.1

ISC 03 03:53:44.1; 1.2, 45.68S; 13.78W, h0km, mb4.0/5, mbtmp3.9/5, MS3.5/14, Error ellipse: s-maj=87.0km s-min=-27.4km az=87.0

ISC 03 03:53:45.6; 1.2, 45.7S; 0.2; 13.9W; 0.5, h10km, n19, r039/6, mb3.9/5, MS3.6/14, Southern Mid-Antarctic Ridge

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like SNA5, Sanae, 26.59 172 LR, etc.

ISC 03 03:53:44.1; 1.2, 45.68S; 13.78W, h0km, mb4.0/5, mbtmp3.9/5, MS3.5/14, Error ellipse: s-maj=87.0km s-min=-27.4km az=87.0

ISC 03 03:53:45.6; 1.2, 45.7S; 0.2; 13.9W; 0.5, h10km, n19, r039/6, mb3.9/5, MS3.6/14, Southern Mid-Antarctic Ridge

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like PMSA, Palmer Station, 33.21 217 LR, etc.

VA05	comp=Z,38um,0.5s	0.94 188	Pn	04 22 43.1 +1.4
VA05	Santo Domingo	0.94 188	Pn	04 22 43.0 +1.3
VA05	Santo Domingo	0.94 188	Pn	04 22 55.9 +1.7
VA05	IAML		Sn	04 23 02.4
MT10	comp=Z,1um,0.4s	0.95 125	Pn	04 22 43.2 +1.1
MT10	Hacienda Santa	0.95 125	Pn	04 22 55.5 +0.6
MT14	comp=Z,1um,0.4s	1.03 131	Pn	04 22 44.1 +1.1
MT14	Cerro Caljn	1.03 131	Pn	04 22 57.4 +0.8
MT14	IAML		Sn	04 22 59.2
MT16	comp=E,103um,0.3s	1.06 132	Pn	04 22 44.2 +0.8
MT16	CCHEN	1.06 132	Pn	04 22 44.5 +1.1
MT16	CCHEN	1.06 132	Pn	04 22 58.3 +1.1
MT16	IAML		Sn	04 22 58.0 +0.8
MT03	comp=Z,1um,0.4s	1.11 134	Pn	04 22 45.3 +1.2
MT03	Universidad Ad	1.11 134	Pn	04 22 59.4 +0.9
MT03	IAML		Sn	04 23 01.4
MT03	comp=N,99um,0.2s	1.11 134	Pn	04 22 45.0 +0.8
MT03	Universidad Ad	1.11 134	Pn	04 22 59.4 +0.9
MT03	IAML		Sn	04 23 01.4
MT09	comp=Z,60um,0.2s	1.12 159	Pn	04 22 45.7 +1.4
MT09	Talagante	1.12 159	Pn	04 22 59.1 +1.4
MT09	Talagante	1.12 159	Pn	04 23 00.0 +1.1
MT09	IAML		Sn	04 23 01.3
MT01	comp=N,77um,0.3s	1.15 171	Pn	04 22 46.0 +1.4
MT01	Popeta	1.15 171	Pn	04 22 55.9 +1.2
MT01	Popeta	1.15 171	Pn	04 23 00.1 +0.7
MT01	IAML		Sn	04 23 03.6
MT01	comp=E,29um,0.3s	1.15 171	Pn	04 22 45.7 +1.2
MT01	Popeta	1.15 171	Pn	04 23 00.7 +1.4
MT01	IAML		Sn	04 23 04.0
FCH	comp=Z,24um,0.6s	1.16 122	Pn	04 22 45.8 +0.8
FCH	Farellones	1.16 122	Pn	04 23 00.6 +0.6
MT15	comp=Z,1um,0.4s	1.19 137	Pn	04 22 46.1 +1.0
MT15	Las Vizcachas	1.19 137	Pn	04 23 01.2 +0.9
MT15	IAML		Sn	04 23 03.1
MT04	comp=E,131um,0.4s	1.30 122	Pn	04 22 47.9 +1.0
MT04	Ro Olivares	1.30 122	Pn	04 23 04.2 +0.8
MT04	IAML		Sn	04 23 05.3
MT04	comp=E,80um,0.4s	1.30 122	Pn	04 22 47.7 +0.8
MT04	Ro Olivares	1.30 122	Pn	04 23 04.2 +0.8
MT04	IAML		Sn	04 23 07.2
MT08	comp=Z,15um,0.3s	1.41 121	Pn	04 22 49.3 +0.9
MT08	Bocatoma Ro	1.41 121	Pn	04 22 49.7 +1.4
MT08	Bocatoma Ro	1.41 121	Pn	04 23 07.3 +1.3
MT08	Bocatoma Ro	1.41 121	Pn	04 22 49.5 +1.2
MT08	IAML		Sn	04 23 08.9 +2.2
MT08	IAML		Sn	04 23 11.6
MT13	comp=Z,8um,0.4s	1.42 136	Pn	04 22 49.3 +1.0
MT13	San Alfonso	1.42 136	Pn	04 22 49.5 +1.2
MT13	San Alfonso	1.42 136	Pn	04 23 07.1 +1.1
MT13	IAML		Sn	04 23 09.0
MT13	comp=N,57um,0.3s	1.42 136	Pn	04 22 49.3 +1.0
MT13	San Alfonso	1.42 136	Pn	04 23 08.1 +2.1
MT13	IAML		Sn	04 23 16.0
BO04	comp=Z,19um,0.8s	1.45 151	Pn	04 22 50.0 +1.3
BO04	La Punta	1.45 151	Pn	04 22 49.9 +1.3
BO04	La Punta	1.45 151	Pn	04 23 07.7 +1.0
BO04	IAML		Sn	04 23 10.9
LMEL	comp=N,52um,0.3s	1.54 137	Pn	04 22 51.3 +1.3
LMEL	Las Melosas	1.54 137	Pn	04 23 10.4 +1.4
LMEL	IAML		Sn	04 23 11.6
LMEL	comp=N,94um,0.4s	1.54 137	Pn	04 22 51.2 +1.3
LMEL	Las Melosas	1.54 137	Pn	04 23 10.9 +1.9
CO02	comp=Z,10um,0.5s	1.57 151	Pn	04 22 51.4 +1.0
CO02	Combarbal	1.57 151	Pn	04 23 04.0 +0.7
CO02	Combarbal	1.57 151	Pn	04 23 08.9 +1.5
CO02	IAML		Sn	04 23 13.9
BO01	comp=Z,21um,0.3s	1.69 169	Pn	04 22 53.0 +1.0
BO01	Tunca	1.69 169	Pn	04 23 12.6 +1.0
BO01	Tunca	1.69 169	Pn	04 23 18.7 +1.0
BO01	IAML		Sn	04 23 18.7
CO03	comp=Z,10um,0.5s	2.00 20	Pn	04 22 57.6 +1.2
CO03	El Pedregal	2.00 20	Pn	04 22 57.8 +1.4
CO03	El Pedregal	2.00 20	Pn	04 23 01.9 +1.4
CO03	IAML		Sn	04 23 25.4
CO03	comp=E,20um,0.4s	2.00 20	Pn	04 22 57.5 +1.4
CO03	El Pedregal	2.00 20	Pn	04 23 23.5 +3.5
CO03	IAML		Sn	04 23 26.5
CO06	comp=Z,10um,0.6s	2.05 356	Pn	04 22 57.4 +0.6
CO06	Fray Jorge	2.05 356	Pn	04 22 57.6 +0.7
CO06	Fray Jorge	2.05 356	Pn	04 23 20.6 +0.6
CO06	IAML		Sn	04 23 08.9 +2.3
CO06	Leoncito	2.06 64	Pn	04 23 26.5 +4.7
CO06	IAML		Sn	04 23 31.3
ARCO	comp=Z,25um,0.6s	2.14 94	Pn	04 23 01.2 +3.1
ARCO	CERRO ARCO	2.14 94	Pn	04 23 34.6
BO02	comp=Z,5um,0.4s	2.14 165	Pn	04 22 59.1 +1.0
BO02	Sierra Bellavi	2.14 165	Pn	04 22 59.2 +1.1
BO02	Sierra Bellavi	2.14 165	Pn	04 23 24.3 +0.8
BO02	IAML		Sn	04 23 26.4
BO02	comp=N,26um,0.4s	2.14 165	Pn	04 22 59.2 +1.1
BO02	Sierra Bellavi	2.14 165	Pn	04 23 30.2 +6.7
BO02	IAML		Sn	04 23 31.5
AAGR	comp=Z,2um,0.3s	2.25 100	Pn	04 23 02.6 +3.0
GO05	Agrelo	2.25 100	Pn	04 23 00.7 +0.3
GO05	Hualane	2.25 100	Pn	04 23 27.4 -0.3
GO05	IAML		Sn	04 23 07.7 +0.8
GO04	comp=Z,1um,0.4s	2.61 131	Pn	04 23 05.4 +0.8
GO04	Vizcachas	2.61 131	Pn	04 23 05.6 +0.8
GO04	Tololo Observa	2.61 131	Pn	04 23 05.0 -0.1
GO04	Tololo Observa	2.61 131	Pn	04 23 05.5 +0.8
GO04	IAML		Sn	04 23 35.8 +0.5
ZON	comp=Z,2um,0.3s	2.64 64	Pn	04 23 07.5 +2.5
ZON	Zonda	2.64 64	Pn	04 23 40.2 +4.4
ZON	IAML		Sn	04 23 44.7
DOCA	comp=Z,2um,0.3s	2.69 49	Pn	04 23 08.6 +2.7
DOCA	Reserva Natura	2.69 49	Pn	04 23 41.8 +4.3
DOCA	IAML		Sn	04 23 44.2
SJA	comp=Z,4um,0.9s	2.74 65	Pn	04 22 57.2 -9.1
SJA	San Juan	2.74 65	Pn	04 23 44.0 +5.7
SJA	IAML		Sn	04 23 44.7
CO05	comp=Z,2um,0.3s	2.81 4	Pn	04 23 07.8 +0.6
CO05	La Serena	2.81 4	Pn	04 23 07.7 +0.6
CO05	La Serena	2.81 4	Pn	04 23 10.6 +2.2
CO05	IAML		Sn	04 23 45.4 +3.3
ACCO	comp=Z,1um,0.4s	2.96 44	Pn	04 23 16.0 +7.1
ACCO	Cerro Coronel	2.96 44	Pn	04 23 11.4 +2.1
ACCO	IAML		Sn	04 23 11.4 +2.1
CFA	comp=Z,821nm,0.3s,baz=160,slow=116,SNR=13	2.96 69	Pn	04 23 46.3 +2.7
CFA	Coronel Faton	2.96 69	Pn	04 23 36.7
CFA	IAML		Sn	04 23 36.7
CFA	comp=Z,230nm,19.7s,baz=186,slow=44	2.96 69	Pn	04 23 11.2 +1.9
CFA	Coronel Faton	2.96 69	Pn	04 23 46.6 +3.0
CFA	IAML		Sn	04 23 11.6 +1.8
CO01	comp=Z,5um,0.5s	2.98 24	Pn	04 23 47.9 +3.4
CO01	Juntas del Tor	2.98 24	Pn	04 24 03.4
CO01	Juntas del Tor	2.98 24	Pn	04 23 03.4
CO01	IAML		Sn	04 23 03.4
ML02	comp=Z,5um,0.5s	3.03 179	Pn	04 23 11.0 +0.8
ML02	Panimavida	3.03 179	Pn	04 23 46.3 +1.1
ML02	IAML		Sn	04 24 09.0
AC05	comp=Z,5um,0.5s	4.01 15	Pn	04 24 11.8 +2.2
AC05	El Transito	4.01 15	Pn	04 24 11.8 +2.2

AC05	comp=Z,2um,0.6s	4.86 88	eS	04 24 38.9
MRA	San Martin	4.86 88	eS	04 24 32.5 +2.0
MRA	IAML		Sn	04 25 06.5
UA04	comp=Z,1um,0.7s	6.24 260	Pn	04 23 54.9 +0.7
H03N1	Juan Fernandez	6.24 260	Pn	04 23 57.1 +2.5
H03N1	IAML		Sn	04 23 45.0
H03N3	comp=Z,1um,0.7s	6.33 261	Pn	04 23 56.5 +1.7
H03N3	Juan Fernandez	6.33 261	Pn	04 23 46.3
H03N3	IAML		Sn	04 23 57.0 +2.1
H03N2	comp=Z,1um,0.7s	6.33 258	Pn	04 23 47.5
H03N2	Juan Fernandez	6.33 258	Pn	04 23 56.4 +1.2
H03S1	comp=Z,1um,0.7s	6.33 258	Pn	04 23 20.8
H03S1	Juan Fernandez	6.33 258	Pn	04 23 56.9 +1.7
H03S3	comp=Z,1um,0.7s	6.33 258	Pn	04 23 19.7
H03S3	Juan Fernandez	6.33 258	Pn	04 23 56.3 +0.9
H03S2	comp=Z,1um,0.7s	6.33 258	Pn	04 23 21.0
H03S2	Juan Fernandez	6.33 258	Pn	04 24 06.6 -2.2
LR04	Corral	7.13 192	Pn	04 24 18.8 +0.1
PLCA	Paso Flores	8.02 175	Pn	04 27 26.8
PLCA	IAML		Sn	04 27 26.8
PLCA	comp=Z,493nm,19.2s,baz=344,slow=37	8.02 175	Pn	04 24 19.9 +1.2
PLCA	Paso Flores	8.02 175	Pn	04 24 37.4 -0.3
TR0B	Conquist	9.38 127	Pn	04 24 37.4 0.0
LL02	Futaleuf	10.45 182	Pn	04 24 52.8 +0.9
COYC	Coyhaique	12.84 182	Pn	04 25 26.1 +1.8
ITQB	Itaqi	13.07 80	Pn	04 25 23.5 -4.1
ITQB	Itaqi	13.07 80	Pn	04 25 23.6 -3.9
CPUP	Villa Florida	13.85 66	Pn	04 23 34.1 -4.2
CPUP	IAML		Sn	04 27 59.5 -1.1
CPUP	comp=Z,4.3nm,0.6s,baz=242,slow=17,SNR=3.0	13.85 66	Pn	04 21 53.5
CPUP	Villa Florida	13.85 66	Pn	04 25 35.8 -2.6
PB16	IPOC Station P	14.44 7	Pn	04 25 47.6 +0.9
AY03	Cochrane	14.53 183	Pn	04 25 46.3 -0.9
PLTB	Pedras Altas	15.15 91	Pn	04 25 52.1 -3.2
PLTB	Pedras Altas	15.15 91	Pn	04 25 52.4 -2.9
PB18	Visiviri	15.18 7	Pn	04 25 58.9 -1.5
CPBS	Cacapava Do Su	15.54 86	Pn	04 25 54.6 -5.8
LPAZ	La Paz	16.41 11	Pn	04 26 15.9 -0.8
LPAZ	IAML		Sn	04 26 16.6
LPAZ	comp=Z,96nm,0.8s	16.41 11	Pn	04 26 15.2 +0.2
LPAZ	La Paz	16.41 11	Pn	04 26 15.5 +0.6
LPAZ	La Paz	16.41 11	Pn	04 26 14.8 -0.2
ITAB	comp=Z,48nm,0.8s	17.61 77	Pn	04 26 26.6 -0.1
ITAB	Concordia	17.61 77	Pn	04 26 31.0 0.0
CNBL	Canela	17.99 85	eP	04 26 32.4 -2.1
BBSD	Serra de San D	18.32 35	eP	04 26 37.1 -0.6
AQDB	Aquidauana	18.62 53	eP	04 26 38.8 -0.8
AQDB	Aquidauana	18.62 53	eP	04 26 38.8 -0.8
PTGB	Pitangua	18.78 70	eP	04 26 41.9 -1.7
SIV	San Ignacio	19.14 32	eP	04 35 36.2
SIV	IAML		Sn	04 35 36.2
TRCB	comp=Z,208nm,20.1s,baz=110,slow=41	19.35 64	Pn	04 26 45.3 -0.7
TRCB	Terra Rica	19.35 64	Pn	04 27 08.9
TRCB	IAML		Sn	04 26 45.3 -0.7
TRCB	comp=Z,42nm,0.6s	19.35 64	eP	04 26 45.2 -0.7
TRCB	Terra Rica	19.35 64	eP	04 26 55.6 -0.4
MG02	Ribas do Rio P	20.11 176	Pn	04 26 53.3 -1.7
LDASE	Londrina, Braz	20.19 68	eP	04 26 58.6 +0.1
PTLJ	Pontes e Lacer	20.52 36	eP	04 26 58.5 0.0
PTLJ	Pontes e Lacer	20.52 36	eP	04 27 03.0 -1.6
PCMB	Pacambu	21.06 63	eP	04 27 05.9 -0.2
INNA	Irama	21.22 345	Pn	04 27 05.9 -0.2
FRTB	Fatura	21.44 70	eP	04 27 16.1 -2.4
C2SB	Chapadão do Su	21.74 55	eP	04 27 13.2 -1.5
SANTO	Santo Antonio	22.02 30	Pn	04 27 15.6 -0.6
VILB	Vilheina	22.22 30	Pn	04 27 16.3 -1.4
VILB	Vilheina	22.22 30	Pn	04 27 23.2 -0.8
ITRB	Iturama	22.90 61	Pn	04 27 24.4 -0.7
SPB	Sao Paulo	23.02 73	eP	04 27 25.6
SPB	IAML		Sn	04 27 25.3 +0.2
BB19B	Bebedouro	23.47 66	eP	04 27 29.3 -2.3
VAO	Valinhos	23.68 72	eP	04 27 29.7 -1.7
ARAC	Araguaiana, MT	24.59 51	eP	04 27 38.4 -1.4
SAML	Samuel	24.87 20	Pn	04 27 41.7 -0.6
SAML	IAML		Sn	04 27 44.3
SAML	comp=Z,45nm,0.8s	24.87 20	eP	04 27 41.9 -0.4
SAML	Samuel	24.87 20	eP	04 27 43.3 +0.7
CZSB	Cruzeiro do Su	24.90 357	Pn	04 27 43.5 +0.8
CZSB	Cruzeiro do Su	24.90 357	Pn	04 27 43.3 +0.7
CZSB				

3d 5h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PV18, TSUM, KOOLE, ECSD, BOSHA, GRTLG, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GRGR, GRW, TPR, GRSS, GCMC, etc.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GSPA, ILAR, ECX, NEIC, ISC, etc.

TRN 03 04:27:19.9, 10.93N:62.29W, h92km, MD3.7, North of the Paria Peninsula.
FUNV 03 04:27:20.0, 10.93N:62.22W, h99km, MW3.6
ISC 03 04:27:18.0-1.6, 10.89N:05.62-31W, 0.06, h108km, 20km, n23, c160/41, C, Near coast of Venezuela

ISC 03 04:37:11.2-0.9, 5.6:01S:27.25W, h0km, mb4.2/6, mbtmp4.2/7, ML4.0/1, Error ellipse: s-maj=34.1km s-min=21.7km az=73.0
NEIC 03 04:37:23.1-1.2, 5.6:23S:0.09:27.4W:0.2, h94km, 7km, mb4.5/20, Error ellipse: s-maj=15.1km s-min=10.6km az=132.0
ISC 03 04:37:24.7-0.5, 5.6:16S:0.09:27.5W:0.1, h112km, n49, c677/48, mb4.5/14, 5D, South Sandwich Islands region

ALPN Alpine 9.05 85 Pn 05 40 18.4 +1.0
TX31 Lajas Array 9.10 92 Pn 05 40 18.1 +0.1
TXAR Lajas Array 9.10 92 Pn 05 40 18.2 +0.1
TXAR Lajas Array 9.10 92 Pn 05 40 15.9 -2.2

CMB	Columbia Colle	9.52 328	Pn	Pn	05 40 21.3 -2.4
TMUT	Trail Mountain	9.52 34	Pn	Pn	05 40 22.3 -1.7
S22A	4UR Ranch, Cre	9.76 36	Pn	Pn	05 40 26.7 -0.6
MNHN	Monahans	9.84 80	Pn	Pn	05 40 29.1 +0.9
ODSA	Odessa	10.11 75	Pn	Pn	05 40 33.7 +1.8
ODSA	Odessa Canyon	10.14 11	Pn	Pn	05 40 30.0 +1.1
DUG	Dugway, Tooele	10.17 6	Pn	Pn	05 40 30.9 -1.9
SAND	Sanderson	10.38 88	Pn	Pn	05 40 36.9 +1.3
ELK	Elko	10.71 355	Pn	Pn	05 40 41.8 +1.6
ELK	comp=N,0.1nm,0.3s,baz=172,slow=13,SNR=5.2		LR		05 45 03.2
BSUT	Blindstream Ca	10.81 14	Pn	Pn	05 40 39.3 -2.3
O20A	White River Cr	11.14 24	Pn	Pn	05 40 44.5 -1.6
O2NA	Ozona	11.23 82	Pn	Pn	05 40 45.7 -1.6
ABTX	Ablene, Hawle	12.62 75	Pn	Pn	05 41 08.5 +2.3
PDAR	Pinedale Array	13.20 15	P	P	05 41 19.1 -5.5
PDAR	Pinedale Array	13.20 15	Pn	Pn	05 41 14.2 0.0
PDAR	comp=N,0.1nm,0.3s,baz=186,slow=12,SNR=11		LR		05 46 08.7
J08A	Circle Bar Ranch	13.73 346	P	P	05 41 27.1 -3.2
X34A	Smith Ranch, M	14.48 58	Pn	Pn	05 41 34.5 +2.9
GRANT	Grant	14.59 10	Pn	Pn	05 41 35.7 +1.2
Z35A	Perchans, Saw	14.71 73	Pn	Pn	05 41 35.6 +0.9
YHH	Holmes Hill	14.93 9	Pn	Pn	05 41 38.0 +0.1
FNO	Franklin	14.99 65	Pn	Pn	05 41 40.6 +2.2
DLMT	Dillon	15.33 4	Iamb	Iamb	05 41 55.7
RLMT	Red Lodge	15.52 13	Iamb	Iamb	05 41 54.4
OK052	Battle Ridge R	15.66 63	P	P	05 41 54.0 +2.4
OK051	E0350 and S346	15.79 61	P	P	05 41 56.4 +3.3
OK051	comp=Z,25nm,1.0s		Iamb	Iamb	05 41 57.8
HKT	Hockley	15.83 86	Pn	Pn	05 41 50.9 +1.4
DEOK	Depew	15.85 64	Iamb	Iamb	05 41 57.6
LNOR	Linnton Mounta	16.13 349	Pn	Pn	05 41 53.0 -0.4
RSSD	Black Hills	16.15 27	P	P	05 41 59.3 +2.0
T35A	Sooner Cattle	16.18 60	P	P	05 41 58.6 +1.2
TUL3	Leonard	16.42 64	Iamb	Iamb	05 41 58.6 +1.3
Z38A	Mt. Pleasant	16.58 74	P	P	05 42 01.1 -0.8
Z38A	comp=Z,16nm,0.8s		Iamb	Iamb	05 42 05.8
MSO	Missoua	16.75 0	Pn	Pn	05 42 00.2 -1.2
LYMT	Lyon Mountain	16.95 4	Pn	Pn	05 42 02.4 -1.7
RLO	Rose Lookout	17.09 64	Pn	Pn	05 42 06.1 +0.4
RLO	comp=Z,16nm,1.1s		Iamb	Iamb	05 42 11.2
LAO	LASA Array	17.70 18	Pn	Pn	05 42 13.7 -0.6
MIAR	Mount Ida	17.91 70	Iamb	Iamb	05 42 38.6
MIAR	comp=Z,15nm,1.3s		Iamb	Iamb	05 42 38.6
LTY	Liberty	17.92 345	Pn	Pn	05 42 13.9 -2.1
HHAR	Hobbs	17.97 64	Pn	Pn	05 42 16.3 -0.3
DOSA	Enumclaw	18.17 343	Pn	Pn	05 42 17.0 -2.0
DOSA	comp=Z,36nm,1.4s		Iamb	Iamb	05 42 38.7
WLAR	White Oak Lake	18.18 73	Iamb	Iamb	05 42 20.8 +1.2
WLAR	comp=Z,34nm,1.3s		Iamb	Iamb	05 42 50.0
EGMT	Eagleton	18.25 9	Pn	Pn	05 42 17.8 -2.3
EGMT	comp=Z,20nm,1.5s		Iamb	Iamb	05 42 50.0
NEW	Newport	18.33 354	Pn	Pn	05 42 17.7 -3.3
NEW	Newport	18.33 354	LR	LR	05 50 02.9
Z41A	Richland Creek	18.40 75	Pn	Pn	05 42 23.9 +1.9
Z41A	comp=Z,9.1nm,0.9s		Iamb	Iamb	05 42 32.8
X40A	Basin Creek Fa	18.51 71	P	P	05 42 23.3 +0.1
B08A	Colville Reser	18.72 349	P	P	05 42 24.6 -0.8
FCAR	Ozark Folk Cen	19.32 67	Pn	Pn	05 42 33.0 0.0
CCAR	Cane Creek	19.32 73	Pn	Pn	05 42 34.0 +1.0
EJCS	EROS Data Cent	19.49 41	Iamb	Iamb	05 42 34.8 -0.3
EJCS	comp=Z,17nm,1.4s		Iamb	Iamb	05 42 42.2
T42A	Van Buren	20.37 64	Pn	Pn	05 42 45.1 -0.4
P40A	Paris	20.38 56	P	P	05 42 45.1 -0.6
OXF	Oxford	21.32 72	Pn	Pn	05 42 55.2 +1.3
OXF	comp=Z,19nm,1.2s		Iamb	Iamb	05 43 07.5
I37A	Lemond, Waseca	21.53 44	P	P	05 42 57.0 +1.0
I37A	comp=Z,18nm,1.2s		Iamb	Iamb	05 43 22.2
CMIG	Mattias Romero	21.79 122	P	P	05 43 01.4 +2.4
CMIG	comp=Z,5.4nm,1.0s,baz=321,slow=9.6,SNR=4.0		Iamb	Iamb	05 43 02.0 +1.5
S44A	Carbonate	21.95 63	Iamb	Iamb	05 43 04.0
S44A	comp=Z,11nm,1.1s		Iamb	Iamb	05 43 02.6 +1.7
SIUC	Southern Illin	21.98 63	P	P	05 43 02.6 +1.7
SIUC	comp=Z,8.5nm,1.1s		Iamb	Iamb	05 43 06.5 +1.7
PLAL	Pickwick Lake	22.46 71	P	P	05 43 07.3 +1.2
PLAL	comp=Z,15nm,1.1s		Iamb	Iamb	05 43 13.8
WWT	Waverly	22.79 68	Pn	Pn	05 43 10.7 +1.2
WWT	comp=Z,14nm,1.1s		Iamb	Iamb	05 43 19.0
USIN	University of	23.23 63	P	P	05 43 15.8 +1.7
LRAL	Lakeview Retre	23.26 76	P	P	05 43 16.2 +1.7
LRAL	comp=Z,5.3nm,1.1s		Iamb	Iamb	05 43 21.6
ULM	Lac du Bonnet	24.39 29	LR	LR	05 53 10.8
ULM	comp=Z,98nm,18.4s,baz=227,slow=38		LR	LR	05 53 01.9
BBB	Bella Bella	24.42 339	LR	LR	05 53 01.9
BBB	comp=Z,205nm,20.2s,baz=176,slow=37		LR	LR	05 43 27.7 +1.7
FPAL	Fort Paine	24.45 72	Iamb	Iamb	05 43 31.4
FPAL	comp=Z,4.3nm,1.0s		Iamb	Iamb	05 43 31.4
W50A	Signal Mountai	24.73 70	P	P	05 43 31.2 +2.6
152A	Waverly Hill	25.19 76	P	P	05 43 35.2 +2.6
DLBC	Dease Lake	30.42 343	LR	LR	05 59 15.8
DLBC	comp=Z,198nm,18.1s,baz=124,slow=42		LR	LR	05 57 20.0
SADO	Sadowa	31.14 52	LR	LR	05 57 20.0
YKA	Yellowknife Ar	32.45 360	LR	LR	05 58 43.3
YKA	comp=Z,229nm,18.5s,baz=242,slow=38		LR	LR	05 59 01.0
JTS	Las Juntas de	33.52 120	LR	LR	05 59 01.0
JTS	comp=Z,58nm,20.6s,baz=305,slow=38		LR	LR	05 45 32.2 +2.0
KNK	Knik Glacier	38.64 334	P	P	05 45 34.0 +1.9
SCRK	Sand Creek	38.65 339	P	P	05 45 34.0 +1.9
ILAR	Eielson Array	40.31 339	P	P	05 45 45.9 +1.8
ILAR	comp=Z,1.1nm,0.8s,baz=152,slow=7.3,SNR=12		Iamb	Iamb	05 45 55.1 +0.2
KTH	Kantishna Hill	40.86 336	Iamb	Iamb	05 45 50.4 +1.7
KTH	comp=Z,3.8nm,0.8s		Iamb	Iamb	05 45 55.1
PPLA	Purkeypile	40.93 334	P	P	05 45 49.5 +0.1
L19K	White Mountain	41.57 333	P	P	05 45 55.3 +0.8
L19K	comp=Z,7.3nm,1.4s		Iamb	Iamb	05 45 59.1
F26K	Sheenjek River	41.66 343	P	P	05 45 55.1 -0.2
F26K	comp=Z,11nm,1.4s		Iamb	Iamb	05 46 04.2
MLY	Manley	41.72 338	P	P	05 45 55.3 -0.4
MLY	comp=Z,2.4nm,0.8s		Iamb	Iamb	05 46 02.1
N17K	Nushagak Hills	41.74 330	P	P	05 45 56.0 +2.5
N17K	comp=Z,2.7nm,0.9s		Iamb	Iamb	05 46 02.5
H23K	Yukon River	41.84 339	P	P	05 45 57.7 +1.0
L18K	Granite Mounta	42.33 332	Iamb	Iamb	05 46 01.0 +0.3
L18K	comp=Z,4.0nm,0.9s		Iamb	Iamb	05 46 06.7
J20K	Nowinta River	42.38 335	P	P	05 46 01.2 0.0
J20K	comp=Z,6.7nm,1.2s		Iamb	Iamb	05 46 07.6
J19K	Poorman	42.83 335	Iamb	Iamb	05 46 05.0 +0.3
J19K	comp=Z,4.3nm,1.1s		Iamb	Iamb	05 46 11.1
J18K	Innokko River	42.97 333	P	P	05 46 05.9 0.0
J18K	comp=Z,3.2nm,1.0s		Iamb	Iamb	05 46 15.0
K17K	Iditarod	43.23 332	P	P	05 46 08.3 +0.3
K17K	comp=Z,4.0nm,0.9s		Iamb	Iamb	05 46 13.0
J16K	Anvik River	44.42 332	P	P	05 46 17.6 0.0

J16K	comp=Z,6.8nm,1.2s		Iamb	Iamb	05 46 21.4	
HUMP	Col San Antoni	45.31 94	P	P	05 46 26.5 +1.3	
CO05	La Serena	72.27 142	P	P	05 49 33.7 +0.8	
CO05	Niue	72.62 235	P	P	05 49 34.7 -0.2	
CO05	Fray Jorge	72.65 142	P	P	05 49 37.0 +2.1	
ESDC	Seneca Array	85.04 47	P	P	05 50 41.7 -1.4	
ESDC	comp=Z,0.1nm,0.5s,baz=290,slow=3.7,SNR=2.6		Iamb	Iamb	05 50 41.7 -1.4	
ESDC	comp=Z,0.1nm,0.5s		Iamb	Iamb	05 50 41.7 -1.4	
IDC	03 05:49:26.7,1.3,40:44N:20:82E,h0km,mb3.2/6,mbmp3.3/11,ML3.4/5,MS2.9/1,Error ellipse:s-maj=18.9km s-min=14.9km az=164.0, BEO 03 05:49:26.5,0.8,40:37N:20:72E,h7km,3km,ML3.5/6,ATH 03 05:49:27.3,40:44N:20:77E,h10km,3km,ML3.6/15, Manual Solution by E.Daskalaki First location: 2019/06/03 05:50:26, This location: 2019/06/03 07:35:04 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 3 km TIR 03 05:49:27.7,40:47N:20:80E,h5km,2km,ML3.9/7 THE 03 05:49:28.2,40:40'N'1'x'2'1E',h0km,1km,ML3.4/14,MLh3.4/14 PDG 03 05:49:28.0,0.8,40:49N:20:83E,h6km,1km,ML3.6/11, Error ellipse: s-maj=1.0km s-min=1.8km az=0.0 SKO 03 05:49:30.7,40:52N:20:89E,h14km,ML3.4 ISC 03 05:49:28.0,0.8,40:46N:02:20:82E,0.02,h9km,6km,n148,r193/197,mb3.3/4,17C-4D,Greece-Albania border region					
Code	Station Name	Δ°	AZ°	Phase ID	Time s	Res
KBN	Korca	0.16	352	Op	Pg	05 49 30.8 -1.0
KBN	KBN			Sg	Sg	05 49 33.6 -0.7
KBN	70nm,0.4s			AML	AML	05 49 34.0
KBN	79nm,0.5s			AML	AML	05 49 42.1
NEST	Nestorio	0.18	105	Pg	Pg	05 49 32.1 -0.1
NEST	Nestorio			Sg	Sg	05 49 36.2 +1.4
NEST	72nm,0.4s			AML	AML	05 49 42.0
NEST	101nm,0.6s			AML	AML	05 49 42.0
NEST	Nestorio	0.18	105	P	Pg	05 49 32.0 -0.1
NEST	Nestorio			S	Sg	05 49 34.9 +0.1
NEST	Nestorio			Sg	Sg	05 49 32.0 -0.1
NEST	Nestorio			Sg	Sg	05 49 35.9 +1.1
LSK	Leskovik	0.35	208	Pg	Pg	05 49 33.7 -1.5
LSK	LSK			Sb	Sb	05 49 41.4 -1.0
LSK	89nm,0.5s			AML	AML	05 49 47.2
PENT	Pentalofos	0.36	137	P	Pg	05 49 35.0 -0.5
PENT	Pentalofos			S	Sg	05 49 39.6 -0.5
PENT	Pentalofos			Sg	Sg	05 49 39.6 -0.5
PENT	Pentalofos			Sg	Sg	05 49 39.6 -0.5
OHR	Ohrid	0.65	359	P	Pg	05 49 40.4 +0.8
OHR	Ohrid			Sb	Sb	05 49 40.4 -0.4
OHR	Ohrid			Sg	Sg	05 49 40.6 -0.2
OHR	Ohrid			Sg	Sg	05 49 41.5 +0.6
OHR	Ohrid			elG	Lg	05 49 52.0
OHR	comp=N,500nm,0.4s			elG	Lg	05 49 54.3
OHR	Ohrid	0.65	359	eP	Pg	05 49 40.4 -0.4
OHR	Ohrid			Sb	Sb	05 49 51.4 +0.5
OHR	Ohrid			Sg	Sg	05 49 47.1 -0.3
KPRO	Kipourio	0.66	140	P	Pg	05 49 39.1 -0.9
KPRO	Kipourio			S	Sg	05 49 39.9 -1.0
KPRO	Kipourio			S	Sg	05 49 49.6 +0.1
KZN	Kozani	0.74	102	P	Pg	05 49 42.0 -0.6
KZN	Kozani			S	Sg	05 49 52.5 +0.3
KZN	Kozani			S	Sg	05 49 48.1 -1.4
KZN	Kozani			S	Sg	05 49 50.9 -1.4
MSVA	Metsovo	0.74	158	P	Pg	05 49 42.7 +0.1
JAN	Janina	0.80	178	P	Pg	05 49 43.3 -0.4
JAN	Janina			P	Pg	05 49 42.6 -1.1
SRN	Sarande	0.85	227	Pg	Pg	05 49 43.8 -0.8
SRN	SRN			S	Sg	05 49 58.1 -0.9
SRN	SRN			AML	AML	05 50 04.2
IGT	Igoumenitsa	1.00	202	Pn	Pg	05 49 46.8 -0.7
IGT	Igoumenitsa			Sg	Sg	05 50 03.6 +1.0
IGT	Igoumenitsa			Sg	Sg	05 49 47.1 -0.3
IGT	Igoumenitsa			Sg	Sg	05 50 02.2 -0.2
IGT	Igoumenitsa			Pb	Pb	05 49 47.5 -0.2
IGT	Igoumenitsa			Sg	Sg	05 50 07.6 +5.0
IGT	Igoumenitsa			P	Pg	05 49 46.0 -1.4
VLO	Vlora	1.01	271	P	Pg	05 49 47.8 0.0
KEK	Kerkira	1.08	227	P	Pg	05 49 48.8 -0.1
LFKM	Lefkimi	1.17	210	P	Pg	05 49 50.9 +0.2
THL	Klokotos Trika	1.28	134	P	Pg	05 49 51.8 -0.5
THL	Klokotos Trika			S	Sn	05 50 09.2 -0.4
THL	Klokotos Trika			S	Sn	05





Table with columns for station name, frequency, and various signal quality metrics (e.g., IAMS\_20, IAMS\_20, 06 16 57.4).

Table with columns for station name, frequency, and various signal quality metrics (e.g., KMBL Kambalda, 38.98 146, P, P, 06 04 36.9 +2.6).

Table with columns for station name, frequency, and various signal quality metrics (e.g., DL2, DL2, S, S, 06 11 50.8 +2.5).

Table with columns for station name, frequency, power, and other technical details. Includes stations like WHFO, TKM2, AAK, and others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like MAKZ, MZWR, GUMO, DZA, and others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like STKA, OTUK, KURKB, and others.





comp=Z,7.4nm,1.1s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	RETH	Rethem/Aller,	88.73 323	eP	P	06 10 02.8 +1.6				
KSP Ksiaz	84.31 321	eP	P	06 09 39.3 -0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	RETH	Rethem/Aller,	88.73 323	eP	P	06 10 02.8 +1.6
OSTC Ostas	84.33 321	eP	P	06 09 41.6 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	RETH	Rethem/Aller,	88.73 323	eP	P	06 10 02.8 +1.6
OSTC Ostas	84.33 321	eS	AMS	06 20 04.0 +2.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	RETH	Rethem/Aller,	88.73 323	eP	P	06 10 02.8 +1.6
comp=Z,4.4um,18.5s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KONO	Kongsberg	88.75 329	eP	P	06 10 04.5 +3.3				
OSTC Ostas	84.33 321	eP	P	06 09 41.6 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KONO	Kongsberg	88.75 329	eP	P	06 10 04.5 +3.3
OSTC Ostas	84.33 321	eS	AMS	06 20 04.0 +2.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KONO	Kongsberg	88.75 329	eP	P	06 10 04.5 +3.3
comp=Z,4.4um,18.5s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KBS	Kingsbay	88.84 349	eP	P	06 10 03.8 +2.6				
HAMF Hammerfest	84.41 341	eP	P	06 09 41.1 +1.4	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KBS	Kingsbay	88.84 349	eP	P	06 10 03.8 +2.6
CHVC Chvalec	84.43 321	eP	P	06 09 40.6 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KBS	Kingsbay	88.84 349	eP	P	06 10 03.8 +2.6
CHVC Chvalec	84.43 321	eS	AMS	06 20 05.3 +0.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KBS	Kingsbay	88.84 349	eP	P	06 10 03.8 +2.6
CHVC Chvalec	84.43 321	eS	AMS	06 20 05.3 +0.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	KBS	Kingsbay	88.84 349	eP	P	06 10 03.8 +2.6
comp=Z,4.4um,19.1s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
ARSA Arzberg	84.44 317	eP	P	06 09 41.6 +1.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
UPC Upipe	84.45 321	eS	AMS	06 20 05.9 +0.6	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
UPC Upipe	84.45 321	eS	AMS	06 20 05.9 +0.6	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
BOJS Bojanci	84.47 316	i	P	06 09 40.4 -1.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
BOJS Bojanci	84.47 316	i	P	06 09 40.4 -1.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
TREC Treest	84.67 319	eS	AMS	06 20 07.3 -0.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
TREC Treest	84.67 319	eS	AMS	06 20 07.3 -0.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,20.5s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
SOKA Sobotta	84.72 317	eP	P	06 09 42.3 +0.4	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
SOKA Sobotta	84.72 317	eP	P	06 09 42.3 +0.4	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
VNDA Vanda	84.90 169	P	P	06 09 42.8 +0.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
VNDA Vanda	84.90 169	P	P	06 09 42.8 +0.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.0nm,1.0s,baz=307,slow=6.0,SNR=7.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
VNDA Vanda	84.90 169	P	P	06 09 42.8 +0.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,0.8nm,0.6s,baz=346,slow=3.5,SNR=6.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
VNDA Vanda	84.90 169	P	P	06 09 42.8 +0.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,5.2um,20.4s,baz=310,slow=32	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
VNDA Vanda	84.90 169	P	P	06 09 42.8 +0.7	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.0nm,1.0s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
LJU Ljubljana	85.02 316	eP	P	06 09 43.4 0.0	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
LJU Ljubljana	85.02 316	eP	P	06 09 43.4 0.0	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
OBKA Obir	85.04 316	i	P	06 09 44.7 +1.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
OBKA Obir	85.04 316	i	P	06 09 44.7 +1.1	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,16nm,1.3s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
INTR Introdacqua	85.17 312	P	P	06 09 43.3 -1.0	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
INTR Introdacqua	85.17 312	P	P	06 09 43.3 -1.0	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
GOPC GO Pecny, Ondr	85.18 320	eP	P	06 09 46.3 +2.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
GOPC GO Pecny, Ondr	85.18 320	eP	P	06 09 46.3 +2.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
GOPC GO Pecny, Ondr	85.18 320	eS	AMS	06 20 12.8 +0.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
GOPC GO Pecny, Ondr	85.18 320	eS	AMS	06 20 12.8 +0.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,19.4s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
RAO Raoul Island	85.23 119	IAMS_20	IAMS_20	06 50 56.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
RAO Raoul Island	85.23 119	IAMS_20	IAMS_20	06 50 56.2	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,6.0nm,1.0s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
RAO Raoul Island	85.23 119	LR	LR	06 48 48.9	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,19.9s,baz=236,slow=36	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
JETT Jettan, Norway	85.24 340	eP	P	06 09 43.8 -0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
JETT Jettan, Norway	85.24 340	eP	P	06 09 43.8 -0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eP	P	06 09 46.7 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eP	P	06 09 46.7 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eS	AMS	06 20 14.4 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eS	AMS	06 20 14.4 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,19.4s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
PRU Pruhonice	85.34 320	eP	P	06 09 46.7 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eP	P	06 09 46.7 +1.8	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PRU Pruhonice	85.34 320	eS	AMS	06 20 14.4 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,19.4s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
MOA Molln	85.34 318	eP	P	06 09 45.3 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
MOA Molln	85.34 318	eP	P	06 09 45.3 +0.3	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,4.7nm,0.5s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7				
PVCC Panska Ves	85.37 321	eS	AMS	06 20 15.3 +0.9	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
PVCC Panska Ves	85.37 321	eS	AMS	06 20 15.3 +0.9	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya	88.98 199	eP	P	06 10 04.7 +2.7
comp=Z,3.3um,18.7s	CLL	Collm	86.42 321	i	P	06 09 51.4 +1.2	NVL	N'azarevskaya								

3d 5h

Table with columns: ID, Name, Date, Time, Location, Status, Value. Includes entries like L14K Kuka Creek, G17K Kiwalik Mouna, K15K Wolf Creek Mou, etc.

2019 JUN

Table with columns: ID, Name, Date, Time, Location, Status, Value. Includes entries like J18K Innoko River, D22K Ayikyak River, CART Cartagena, etc.

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Table with columns: ID, Name, Date, Time, Location, Status, Value. Includes entries like O19K Port Alsworth, O19K Port Alsworth, ACHA Angle Creek He, etc.



KDAK	Kodiak Island	100.08	31	Pdiff	Pdif	06 10 52.1	-1.0
FIS	Fire Island	100.17	27	IAMS_20	IAMS_20	07 02 19.4	
CNPM	China Foot	100.22	29	Pdiff	Pdif	06 10 52.1	-1.6
ILAR	Eielson Array	100.25	23	Pdiff	Pdif	06 10 52.0	-1.7
ILAR	Eielson Array	100.25	23	Pdiff	Pdif	06 10 52.6	-1.1
ILAR	comp=Z,1.2nm,0.9s,baz=299,slow=2.9,SNR=12			PP	PP	06 14 56.5	-3.0
ILAR	comp=Z,2.0nm,0.9s,baz=314,slow=9.6,SNR=4.1			PKKPbc	PKKPbc	06 27 15.5	+2.1
WATI	Susitna Watana	100.31	25	Pdiff	Pdif	06 10 52.8	-1.3
BRLK	Bradley Lake	100.31	29	Pdiff	Pdif	06 10 53.2	-1.0
D27M	Malcolm River	100.33	18	IAMS_20	IAMS_20	06 59 52.5	
D27M	Malcolm River	100.33	18	Pdiff	Pdif	06 10 52.9	-1.1
HDA	Harding Lake	100.37	24	Pdiff	Pdif	06 10 53.0	-1.3
HDA	comp=Z,5.5um,19.0s						
HDA	Harding Lake	100.37	24	Pdiff	Pdif	06 10 53.0	-1.3
SLK	Skilak Lake	100.38	28	Pdiff	Pdif	06 10 55.4	+0.9
BRSE	Bradley Lake S	100.39	29	Pdiff	Pdif	06 10 53.7	-0.8
RC01	Rabbit Creek A	100.41	27	IAMS_20	IAMS_20	07 02 44.6	
RC01	Rabbit Creek A	100.41	27	Pdiff	Pdif	06 10 55.1	+0.6
NEEM	North Greenlan	100.43	353	iP	Pdiff	06 10 53.3	-1.3
NEEM	comp=Z,5.5nm,0.8s			IAMB	IAMB	06 10 57.4	
PRP	Porcupine Dome	100.47	22	IAMS_20	IAMS_20	07 02 49.0	
PRP	Porcupine Dome	100.47	22	Pdiff	Pdif	06 10 55.1	+0.2
G26K	Porcupine Rive	100.48	21	Pdiff	Pdif	06 10 55.4	+0.8
PMR	Palmer	100.51	27	Pdiff	Pdif	06 10 56.2	+1.4
PMR	Palmer	100.51	27	Pdiff	Pdif	06 10 57.6	+2.7
PMR	Palmer	100.51	27	Pdiff	Pdif	06 10 55.2	+0.4
O22K	Cooper Landing	100.62	28	Pdiff	Pdif	06 10 55.9	+0.4
E27K	Coleen River	100.65	19	Pdiff	Pdif	06 10 55.9	+0.5
DHY	Denali Highway	100.72	25	IAMS_20	IAMS_20	07 02 13.6	
DHY	Denali Highway	100.72	25	Pdiff	Pdif	06 10 56.3	+0.2
WAT8	Susitna Watana	100.75	25	Pdiff	Pdif	06 10 56.1	-0.1
SML	Sawmill	100.78	26	Pdiff	Pdif	06 10 55.3	-0.9
SML	Sawmill	100.78	26	Pdiff	Pdif	06 10 55.8	-0.5
KNK	Knik Glacier	100.87	27	Pdiff	Pdif	06 10 57.0	+0.4
SEW	Seward	100.88	28	IAMS_20	IAMS_20	07 03 07.2	
SEW	Seward	100.88	28	Pdiff	Pdif	06 10 56.5	0.0
J25K	Salcha River	100.91	23	IAMS_20	IAMS_20	07 02 01.6	
J25K	Salcha River	100.91	23	Pdiff	Pdif	06 10 57.0	+0.2
D28M	Stokes Point	100.97	18	Pdiff	Pdif	06 10 57.0	+0.2
M23K	Glacier View	101.06	26	Pdiff	Pdif	06 10 57.4	0.0
K24K	Donnelly Dome	101.09	24	IAMS_20	IAMS_20	07 00 22.3	
K24K	Donnelly Dome	101.09	24	Pdiff	Pdif	06 10 57.3	-0.2
E28M	Babbage River	101.10	18	IAMS_20	IAMS_20	07 02 28.3	
E28M	Babbage River	101.10	18	Pdiff	Pdif	06 10 57.2	-0.2
PWL	Port Wells	101.13	27	IAMS_20	IAMS_20	07 03 42.7	
PWL	Port Wells	101.13	27	Pdiff	Pdif	06 10 57.1	-0.7
SCM	Sheep Creek Mo	101.22	26	Pdiff	Pdif	06 10 58.5	+0.3
G27K	Doyon Strip	101.30	20	Pdiff	Pdif	06 10 58.5	+0.1
I26K	Coal Creek Min	101.46	22	IAMS_20	IAMS_20	07 03 30.0	
I26K	Coal Creek Min	101.46	22	Pdiff	Pdif	06 10 59.2	+0.1
RIDG	Independent Ri	101.49	24	IAMS_20	IAMS_20	07 03 01.0	
RIDG	Independent Ri	101.49	24	Pdiff	Pdif	06 10 59.1	-0.2
F28M	Old Crow	101.50	19	Pdiff	Pdif	06 10 59.6	+0.3
PAX	Paxson	101.56	25	IAMS_20	IAMS_20	06 59 55.8	
PAX	Paxson	101.56	25	Pdiff	Pdif	06 10 59.5	-0.2
M24K	Tolsona, Glenn	101.61	26	IAMS_20	IAMS_20	07 03 50.3	
M24K	Tolsona, Glenn	101.61	26	Pdiff	Pdif	06 10 59.5	-0.4
H27K	Steamboat Moun	101.62	21	Pdiff	Pdif	06 10 59.8	-0.1
H27K	Steamboat Moun	101.62	21	IAMS_20	IAMS_20	07 04 07.2	
H27K	Steamboat Moun	101.62	21	Pdiff	Pdif	06 10 60.0	+0.2
J26L	Joseph Creek	101.67	23	Pdiff	Pdif	06 11 00.8	+0.7
J26L	Joseph Creek	101.67	23	Pdiff	Pdif	06 11 00.2	+0.1
GLI	Glacier Island	101.69	27	IAMS_20	IAMS_20	07 04 02.3	
GLI	Glacier Island	101.69	27	Pdiff	Pdif	06 11 00.2	0.0
E29M	Blow River	101.73	18	IAMS_20	IAMS_20	07 03 40.9	
E29M	Blow River	101.73	18	Pdiff	Pdif	06 11 00.0	-0.2
SCRK	Sand Creek	101.73	23	IAMS_20	IAMS_20	07 02 36.3	
SCRK	Sand Creek	101.73	23	Pdiff	Pdif	06 11 00.0	-0.4
DOT	Dot Lake	101.84	24	IAMS_20	IAMS_20	07 03 41.3	
P23K	Montague Islan	101.88	28	IAMS_20	IAMS_20	07 04 27.5	
P23K	Montague Islan	101.88	28	Pdiff	Pdif	06 11 01.5	+0.5
I27K	Kandik River	101.89	21	Pdiff	Pdif	06 11 01.4	+0.3
HARP	HAARP	101.93	25	Pdiff	Pdif	06 11 01.7	+0.5
KLU	Klutina	101.97	26	IAMS_20	IAMS_20	07 02 52.7	
KLU	Klutina	101.97	26	Pdiff	Pdif	06 11 02.1	+0.6
HIN	Hinchinbrook I	102.14	27	IAMS_20	IAMS_20	06 05 07.4	
SUMG	Summit	102.21	348	IAMS_20	IAMS_20	07 06 32.0	
MENT	Mentasta	102.30	24	IAMS_20	IAMS_20	07 03 03.3	
MENT	Mentasta	102.30	24	Pdiff	Pdif	06 11 04.8	+1.9
MENT	Messejana	102.35	309	ePdiff	ePdiff	06 11 05.1	+1.5
MENT	Messejana	102.35	309	PP	PP	06 15 17.7	+1.5
L26K	Log Cabin Wild	102.41	24	IAMS_20	IAMS_20	07 02 57.3	
L26K	Log Cabin Wild	102.41	24	Pdiff	Pdif	06 11 04.0	+0.6
LYAK	Cordova Ski Ar	102.42	27	Pdiff	Pdif	06 11 03.7	+0.3
AVE	Averroes	102.44	304	PKP	PKP	06 15 17.3	+0.2
K27K	Chicken	102.46	23	IAMS_20	IAMS_20	07 03 07.5	
K27K	Chicken	102.46	23	Pdiff	Pdif	06 11 03.9	+0.4
G29M	Pine Creek	102.48	20	Pdiff	Pdif	06 11 04.1	+0.5
N25K	Chitina, Valde	102.50	26	IAMS_20	IAMS_20	07 03 06.8	
N25K	Chitina, Valde	102.50	26	Pdiff	Pdif	06 11 03.7	-0.2

I28M	Miner Creek	102.58	21	Pdiff	Pdif	06 11 04.7	+0.5
Q23K	Middleton Isla	102.59	28	IAMS_20	IAMS_20	07 04 18.5	
Q23K	Middleton Isla	102.59	28	Pdiff	Pdif	06 11 04.6	+0.4
H29M	Whitestone	102.73	20	Pdiff	Pdif	06 11 04.9	+0.2
BMRM	Bremner River	102.76	26	IAMS_20	IAMS_20	07 03 19.8	
BMRM	Bremner River	102.76	26	Pdiff	Pdif	06 11 05.2	+0.1
MORF	Marmetele	102.78	308	ePdiff	ePdiff	06 11 07.1	+1.4
MORF	Marmetele	102.78	308	PP	PP	06 15 21.0	+1.5
A36M	Sachs Harbour	102.80	13	IAMS_20	IAMS_20	07 01 19.0	
A36M	Sachs Harbour	102.80	13	Pdiff	Pdif	06 11 04.8	0.0
TULEG	Thule	102.81	357	IAMS_20	IAMS_20	07 03 39.8	
F30M	Barrier River	102.82	18	Pdiff	Pdif	06 11 05.3	+0.2
M26K	Nabesna, AK	102.83	25	IAMS_20	IAMS_20	07 03 30.5	
M26K	Nabesna, AK	102.83	25	Pdiff	Pdif	06 11 05.7	+0.4
LIS	Lisbon	102.91	310	ePdiff	ePdiff	06 11 07.4	+1.3
LIS	Lisbon	102.91	310	PP	PP	06 15 21.6	+1.3
L27K	Beaver Creek	103.01	24	IAMS_20	IAMS_20	07 03 18.1	
L27K	Beaver Creek	103.01	24	Pdiff	Pdif	06 11 06.2	+0.1
G30M	AoH Zraai Nji	103.04	19	Pdiff	Pdif	06 11 05.8	-0.3
SHEL	Horse Pasture	103.06	254	IAMS_20	IAMS_20	06 53 29.2	
INK	Inuvik	103.11	17	IAMS_20	IAMS_20	07 06 44.3	
INK	Inuvik	103.11	17	Pdiff	Pdif	06 11 06.2	-0.1
I29M	Ogilvie Camp,	103.21	21	Pdiff	Pdif	06 11 07.0	+0.1
EPYK	Eagle Plains	103.21	20	IAMS_20	IAMS_20	07 04 40.2	
EPYK	Eagle Plains	103.21	20	Pdiff	Pdif	06 11 06.7	-0.2
MCARA	McCarthy VSAT	103.28	26	IAMS_20	IAMS_20	07 01 08.3	
MCARA	McCarthy VSAT	103.28	26	Pdiff	Pdif	06 11 07.7	+0.4
KAIM	Kayak Island	103.28	27	IAMS_20	IAMS_20	07 05 03.7	
KAIM	Kayak Island	103.28	27	Pdiff	Pdif	06 11 07.2	-0.1
M27K	Edge Creek, AK	103.32	24	IAMS_20	IAMS_20	07 01 09.3	
M27K	Edge Creek, AK	103.32	24	Pdiff	Pdif	06 11 08.1	+0.5
BERG	Berg Lake	103.41	27	IAMS_20	IAMS_20	07 03 51.0	
BERG	Berg Lake	103.41	27	Pdiff	Pdif	06 11 08.3	+0.2
DAWY	Dawson	103.47	22	IAMS_20	IAMS_20	07 04 42.3	
DAWY	Dawson	103.47	22	Pdiff	Pdif	06 11 08.3	+0.2
CRQM	Cirque	103.50	26	IAMS_20	IAMS_20	07 06 56.9	
CRQE	Cirque	103.56	18	Pdiff	Pdif	06 11 08.3	-0.2
F31M	Tsigehtechic	103.56	18	IAMS_20	IAMS_20	07 02 59.3	
F31M	Tsigehtechic	103.56	18	Pdiff	Pdif	06 11 09.2	+0.9
TGL	Tana Glacier	103.64	26	IAMS_20	IAMS_20	07 07 01.0	
G31M	Satah River	103.70	19	Pdiff	Pdif	06 11 09.3	+0.3
BVCY	Beaver Creek	103.71	24	Pdiff	Pdif	06 11 09.1	-0.1
J29N	Klondike Camp	103.72	22	Pdiff	Pdif	06 11 09.8	+0.6
BGLQ	Berg Glacier	103.72	27	Pdiff	Pdif	06 11 09.6	+0.5
WAX	Waxell Ridge	103.77	26	IAMS_20	IAMS_20	07 04 00.3	
I30M	Mount Dempster	103.97	21	Pdiff	Pdif	06 11 10.2	-0.2
YUK3	Moose Creek	104.18	25	Pdiff	Pdif	06 11 11.3	-0.2
CTG	Chitina Glacier	104.19	26	Pdiff	Pdif	06 11 11.8	+0.3
CTGM	Chitina Glacier	104.20	26	IAMS_20	IAMS_20	07 06 14.6	
MESA	MESA	104.29	26	IAMS_20	IAMS_20	07 06 10.2	
MESA	MESA	104.29	26	Pdiff	Pdif	06 11 12.4	+0.4
YAH	Yahste	104.30	26	IAMS_20	IAMS_20	06 59 31.3	
K29M	Barlow Dome	104.30	22	IAMS_20	IAMS_20	07 05 09.0	
K29M	Barlow Dome	104.30	22	Pdiff	Pdif	06 11 12.1	+0.2
H31M	Peel River	104.33	20	IAMS_20	IAMS_20	07 04 06.8	
H31M	Peel River	104.33	20	Pdiff	Pdif	06 11 11.9	0.0
J30M	Hart River	104.34	21	IAMS_20	IAMS_20	07 04 15.1	
J30M	Hart River	104.34	21	Pdiff	Pdif	06 11 11.9	-0.2
LOGN	Logan Glacier	104.41	26	IAMS_20	IAMS_20	07 02 41.2	
L29M	L29M	104.45	23	IAMS_20	IAMS_20	06 59 54.2	
L29M	L29M	104.45	23	Pdiff	Pdif	06 11 12.6	+0.1
M29M	Somme Creek	104.66	24	IAMS_20	IAMS_20	07 04 27.8	
M29M	Somme Creek	104.66	24	Pdiff	Pdif	06 11 13.1	-0.4
RES	Resolute Bay	104.67	3	IAMS_20	IAMS_20	07 02 09.9	
YUK8	Steele Glacier	104.71	25	Pdiff	Pdif	06 11 12.9	-1.1
O28M	Mount Upton	104.78	25	IAMS_20	IAMS_20	07 07 39.1	
O28M	Mount Upton	104.78	25	Pdiff	Pdif	06 11 13.2	-1.1
PCA	Pinnacle	105.08	26	IAMS_20	IAMS_20	07 02 06.0	
PINM	Pinnacle	105.08	26	Pdiff	Pdif	06 11 15.1	-0.3
YUK4	Talbot Arm	105.15	25	Pdiff	Pdif	06 11 15.7	-0.2
BCPM	Bancs Point	105.42	26	IAMS_20	IAMS_20	07 02 26.0	
YUK6	Outpost Mounta	105.47	25	Pdiff	Pdif	06 11 17.1	-0.2
PNL	Peninsula	105.66	26	Pdiff	Pdif	06 11 18.5	+0.6
O29M	Mount Kennedy	105.71	25	IAMS_20	IAMS_20	07 06 14.6	
O29M	Mount Kennedy	105.71	25	Pdiff	Pdif	06 11 19.0	+0.7
N30M							

BMO	Blue Mountains	125.30	30	IAMS_20	IAMS_20	07 18 20.3			
O02D	Mt. Diablo Mer	125.33	38	IAMS_20	IAMS_20	07 07 12.0			
MSO	Missoula	125.43	26	IAMS_20	IAMS_20	07 18 18.3			
J08A	Circle Bar Ran	125.74	32	IAMS_20	IAMS_20	07 20 33.2			
PLID	Pearl Lake	125.78	29	IAMS_20	IAMS_20	07 21 35.8			
EGMT	Eagleton	126.22	23	IAMS_20	IAMS_20	07 18 57.7			
WVOR	Wild Horse Val	126.29	33	IAMS_20	IAMS_20	07 20 52.7			
BOZ	Bozeman (W)	127.40	26	IAMS_20	IAMS_20	07 19 00.3			
PAHR	Pah Rah Range	127.67	36	IAMS_20	IAMS_20	07 21 00.5			
HLID	Halley	127.67	29	IAMS_20	IAMS_20	07 22 44.9			
YHL	Hebgen Lake	128.26	26	IAMS_20	IAMS_20	07 19 27.1			
ULM	Lac du Bonnet	128.25	11	PKP	PKPdf	06 16 12.2	-2.0		
YHB	Horse Butte	128.26	26	IAMS_20	IAMS_20	07 19 29.0			
YMR	Madison River	128.42	26	IAMS_20	IAMS_20	07 24 05.4			
YNM	Yellowstone No	128.49	26	IAMS_20	IAMS_20	07 24 03.2			
YNE	Yellowstone No	128.56	25	IAMS_20	IAMS_20	07 21 11.0			
LAO	LASA Array	128.65	21	IAMS_20	IAMS_20	07 23 48.8			
ICQ	Pointe Anglais	128.66	348	IAMS_20	IAMS_20	07 23 18.3			
YMP	Mirror Lake Pl	128.72	25	IAMS_20	IAMS_20	07 20 34.1			
RLMT	Red Lodge	128.78	24	IAMS_20	IAMS_20	07 20 37.7			
H17A	Grant Vitcher	128.81	26	IAMS_20	IAMS_20	07 19 56.6			
RYN	Ryan	128.88	37	IAMS_20	IAMS_20	07 21 49.6			
NVAR	Mina Array Bea	129.14	37	PKP	PKPdf	06 16 14.6	-2.0		
NVAR	Mina Array Bes	129.14	37	PKP	PKPdf	06 16 15.1	-1.5		
EPLU	Experimental L	129.19	10	IAMS_20	IAMS_20	07 20 35.5			
FXWY	Fox Creek	129.21	27	IAMS_20	IAMS_20	07 22 15.2			
ELK	Elko	129.29	32	PKIKP	PKPdf	06 16 16.3	-0.5		
ELK	Elko	129.29	32	PKIKP	PKPdf	06 16 16.3	-0.5		
TPAW	Teton Pass	129.35	27	IAMS_20	IAMS_20	07 22 20.1			
LOHW	Long Hollow	129.41	27	IAMS_20	IAMS_20	07 19 59.7			
SNOW	Snow King Moun	129.47	27	IAMS_20	IAMS_20	07 22 31.2			
MDND	Maddock	129.60	15	IAMS_20	IAMS_20	07 20 06.3			
HVU	Hansel Valley	129.80	30	IAMS_20	IAMS_20	07 20 34.4			
AHID	Auburn Hatcher	129.85	28	IAMS_20	IAMS_20	07 22 38.4			
DSP	Deep Springs	130.02	37	IAMS_20	IAMS_20	07 16 50.1			
AGMN	Agassiz Nation	130.12	12	IAMS_20	IAMS_20	07 19 44.0			
BGU	Big Grassy Mou	130.31	31	IAMS_20	IAMS_20	07 25 44.0			
BATG	Bathurst New B	130.49	346	IAMS_20	IAMS_20	07 24 40.7			
HWUT	Hardware Ranch	130.53	29	IAMS_20	IAMS_20	07 23 33.4			
E28A	Huff	130.53	17	IAMS_20	IAMS_20	07 21 08.4			
BW06	Boulder Array	130.55	26	IAMS_20	IAMS_20	07 22 22.8			
PDAR	Pinedale Array	130.55	26	PKP	PKPdf	06 16 18.2	-0.9		
PDAR	Pinedale Array	130.55	26	PKP	PKPdf	06 16 18.0	-3.1		
GBN	Guyabourough	130.87	341	IAMS_20	IAMS_20	07 20 43.0			
LDAQ	Lac Daran	130.92	350	IAMS_20	IAMS_20	07 23 25.0			
DUG	Dugway, Tooele	130.96	31	IAMS_20	IAMS_20	07 24 57.2			
TCUT	Toone Canyon	130.98	29	IAMS_20	IAMS_20	07 23 49.4			
SPR3	Spring Creek 3	131.02	33	IAMS_20	IAMS_20	07 22 47.1			
LMQ	La Malbaie	131.16	349	IAMS_20	IAMS_20	07 23 42.3			
EYMN	Ely	131.22	8	PKP	PKPdf	06 16 19.9	0.0		
TPNV	Topopah Spring	131.34	37	IAMS_20	IAMS_20	07 24 36.7			
JLU	Jordanelle	131.35	30	IAMS_20	IAMS_20	07 21 42.2			
D62A	Allapoint, All	131.36	348	IAMS_20	IAMS_20	07 21 21.5			
PSUT	Pine Spring	131.62	33	IAMS_20	IAMS_20	07 22 59.7			
RSSD	Black Hills	131.64	21	PKP	PKPdf	06 16 19.7	-1.4		
RSSD	Black Hills	131.64	21	IAMS_20	IAMS_20	07 15 38.1			
RSSD	Black Hills	131.64	21	PKIKP	PKPdf	06 16 19.7	-1.4		
MPU	Maple Canyon	131.70	30	IAMS_20	IAMS_20	07 23 55.6			
BRN	Pahroc Range	131.73	35	IAMS_20	IAMS_20	07 24 47.0			
BSUT	Blindstreak Ca	131.79	29	IAMS_20	IAMS_20	07 22 03.5			
E62A	Clyden Lake	131.81	348	IAMS_20	IAMS_20	07 21 55.5			
HAL	Halifax	132.22	342	IAMS_20	IAMS_20	07 18 42.6			
F64A	Sherman	132.36	347	IAMS_20	IAMS_20	07 22 12.2			
E38A	The Farm, Brul	132.52	9	IAMS_20	IAMS_20	07 22 19.5			
MVU	Marysville	132.53	32	IAMS_20	IAMS_20	07 26 04.7			
P18A	Preston Nutter	132.69	30	IAMS_20	IAMS_20	07 22 45.7			
GGN	Saint George	132.70	345	IAMS_20	IAMS_20	07 26 38.1			
Q16A	Castle Valley	132.76	31	IAMS_20	IAMS_20	07 24 51.8			
G65A	Princeton	132.80	346	IAMS_20	IAMS_20	07 20 58.8			
SRU	San Rafael Swe	132.94	30	IAMS_20	IAMS_20	07 25 07.6			
SUSD	Miller	132.98	16	IAMS_20	IAMS_20	07 21 00.1			
LCMT	Little Creek M	133.04	34	IAMS_20	IAMS_20	07 23 51.5			
TRQ	Mont Tremblant	133.12	353	IAMS_20	IAMS_20	07 22 57.1			
PKME	Keene-Kenny Pk	133.14	347	IAMS_20	IAMS_20	07 25 14.7			
O20A	White River Ci	133.25	27	IAMS_20	IAMS_20	07 24 47.2			
PFO	Pinyon Flats O	133.37	40	PKIKP	PKPdf	06 16 22.2	-2.3		
PFO	Pinyon Flats O	133.37	40	PKIKP	PKPdf	06 16 22.3	-2.3		
RCBR	Riachuelo	133.41	262	IAMS_20	IAMS_20	07 12 18.9			
E64A	Sault Ste Mar	133.43	2	IAMS_20	IAMS_20	07 23 32.4			
G26A	West of Eustis	133.44	349	IAMS_20	IAMS_20	07 20 51.6			
SPMN	Marine on St.	133.66	10	IAMS_20	IAMS_20	07 21 58.6			
MNTQ	Montreal, Queb	133.70	352	IAMS_20	IAMS_20	07 24 31.4			
HMU	Henry Mountain	133.72	31	IAMS_20	IAMS_20	07 25 33.2			
WVL	Waterbury	133.88	348	IAMS_20	IAMS_20	07 25 33.5			
U15A	North Rim	133.99	34	IAMS_20	IAMS_20	07 25 45.7			
W13A	Hualapai Moun	134.00	37	IAMS_20	IAMS_20	07 25 19.1			
G40A	Rib Lake	134.02	8	IAMS_20	IAMS_20	07 22 59.2			
H62A	Milan	134.18	349	IAMS_20	IAMS_20	07 26 25.2			

PV11	David Mesa, Pa	134.39	30	IAMS_20	PKPdf	06 16 23.3	-3.1		
WBO	Williamsburg	134.41	353	IAMS_20	IAMS_20	07 25 01.2			
BLYC	Blythe	134.51	39	IAMS_20	IAMS_20	07 28 11.1			
LBNH	Lisbon	134.65	350	IAMS_20	IAMS_20	07 29 07.6			
ISCO	Idaho Springs	134.69	25	IAMS_20	IAMS_20	07 25 44.2			
LONGY	Lake Ozona	134.70	352	IAMS_20	IAMS_20	07 26 57.8			
VT1	Waterbury	134.70	350	IAMS_20	IAMS_20	07 25 20.3			
I37A	Lemond, Waseca	134.71	11	IAMS_20	IAMS_20	07 22 33.6			
I62A	Tanworth	134.89	349	IAMS_20	IAMS_20	07 29 29.0			
DELO	Deloro Mine	135.12	355	IAMS_20	IAMS_20	07 24 08.1			
OGNE	Ogallala	135.13	21	IAMS_20	IAMS_20	07 23 26.5			
WUAZ	Wupaki	135.16	34	IAMS_20	IAMS_20	07 29 05.7			
HNH	Hanover	135.23	350	IAMS_20	IAMS_20	07 25 32.0			
I40A	Norwalk	135.31	9	IAMS_20	IAMS_20	07 27 15.3			
Y14A	Wickenburg	135.32	37	IAMS_20	IAMS_20	07 20 03.3			
MVCO	Mesa Verde	135.42	30	IAMS_20	IAMS_20	07 24 14.5			
J61A	Chester	135.62	350	IAMS_20	IAMS_20	07 22 32.4			
PECO	Prince Edward	135.65	355	IAMS_20	IAMS_20	07 22 17.0			
ACCN	Airondack Com	135.77	351	IAMS_20	IAMS_20	07 28 32.3			
S22A	4UR Ranch, Cre	135.82	28	IAMS_20	IAMS_20	07 26 05.0			
J59A	Pleasant	135.82	352	IAMS_20	IAMS_20	07 26 17.5			
X16A	Lo Mia Camp, P	135.91	35	IAMS_20	IAMS_20	07 28 17.7			
BGNE	Belgrade	136.00	17	IAMS_20	IAMS_20	07 22 35.1			
J57A	Williamstown	136.06	353	IAMS_20	IAMS_20	07 23 35.9			
K62A	Royalston	136.23	349	IAMS_20	IAMS_20	07 22 39.4			
HRV	Adam Dzewonski	136.25	349	IAMS_20	IAMS_20	07 28 40.0			
JWS	Weston	136.32	348	IAMS_20	IAMS_20	07 28 55.9			
WFEV	Jewell Farm	136.32	9	IAMS_20	IAMS_20	07 27 53.1			
BCX	Boston College	136.34	348	IAMS_20	IAMS_20	07 22 28.3			
LL02	Futaleufu	136.35	191	IAMS_20	IAMS_20	07 12 38.2			
J55A	Hilton	136.38	355	IAMS_20	IAMS_20	07 23 25.4			
TRY	Troy	136.41	351	IAMS_20	IAMS_20	07 22 05.2			
SDCO	Great Sand Dun	136.43	27	IAMS_20	IAMS_20	07 25 29.5			
L61B	Northampton	136.52	350	IAMS_20	IAMS_20	07 23 08.0			
KSCO	Kaye Shedlock	136.59	23	IAMS_20	IAMS_20	07 24 56.2			
SC1A	State Center	136.78	12	IAMS_20	IAMS_20	07 24 42.2			
SC7A	Sciop Center	136.79	354	IAMS_20	IAMS_20	07 24 16.2			
MMNV	Mt. Morris Dam	136.92	355	IAMS_20	IAMS_20	07 23 49.7			
L40A	Anamora	137.00	10	IAMS_20	IAMS_20	07 23 42.1			
UCCT	U. Connecticut	137.07	349	IAMS_20	IAMS_20	07 23 14.6			
N59A	Walton	137.14	352	IAMS_20	IAMS_20	07 21 17.6			
L35A	Tabor	137.20	15	IAMS_20	IAMS_20	07 24 29.8			
BINY	Binghamton	137.26	353	IAMS_20	IAMS_20	07 26 43.5			
WVNY	West Valley, N	137.30	356	IAMS_20	IAMS_20	07 25 56.6			
L42A	Oliver, Polo	137.30	8	IAMS_20	IAMS_20	07 24 31.9			
M63A	Gales Ferry	137.41	349	IAMS_20	IAMS_20	07 30 50.7			
T25A	Trinidad	137.42	26	IAMS_20	IAMS_20	07 24 01.4			
L56A	Greenwood	137.48	355	IAMS_20	IAMS_20	07 25 50.5			
ERPA	Erie	137.66	357	IAMS_20	IAMS_20	07 23 23.3			
TUC	Tucson	137.79	37	IAMS_20	IAMS_20	07 31 23.6			
CBKS	Cedar Bluff	137.84	20	IAMS_20	IAMS_20	07 26 45.0			
KSPA	Keystone Colle	137.86	353	IAMS_20	IAMS_20	07 27 03.6			
TRNY	Table Rock, Ra	138.05	351	IAMS_20	IAMS_20	07 30 45.5			
TRQA	Torquist	138.10	204	IAMS_20	IAMS_20	07 09 55.3			
N62A	Caumsett State	138.13	350	IAMS_20	IAMS_20	07 26 38.7			
PAL	Palisades	138.13	351	IAMS_20	IAMS_20	07 27 54.8			
ALLY	Albany	138.14	358	IAMS_20	IAMS_20	07 23 36.9			
ANMO	Albuquerque	138.22	30	IAMS_20	IAMS_20	07 28 04.3			
ANMO	Albuquerque								

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like AUSP, ARAG, GOGA, GOGA, GOGA, etc.

BER 03 05:57:38.4-4.1, 74.77N-9.34E, h10km, Mw3.5, ML2.8(NAO), Confirmed Earthquake

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like BJO1, BJO1, BJO1, etc.

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like KBS, KNS, KNS, etc.

ASRS 03 05:59:09.0, 1.6, 54.39N-86.80E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 05:59:11.7, 3.1, 54.36N-86.81E, h0km, mbtmp3.2/2, ML2.9/2, Error ellipse: s-maj=25.0km s-min=17.6km az=52.0, Southwestern Siberia

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like H46RU, ZALV, ZALV, etc.

BEO 03 06:04:03.6, 0.8, 40.34N-20.68E, h0km, ML2.8/4, TIR 03 06:04:03.9, 4.0, 44N-20.76E, h0km, 1km, M3.1/9

SKO 03 06:04:05.0, 0.3, 40.44N-20.87E, h9km, 1km, ML3.0/9, Error ellipse: s-maj=1.4km s-min=1.2km az=90.0

ISC 03 06:04:04.8, 0.9, 40.47N-20.79E, 0.02, h8km, 7km, n70, c14/113, 1C-4D, Greece-Albania border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like KBN, KBN, KBN, etc.

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like KNT, KNT, KNT, etc.

comp=N, 1.2nm, 0.5s SOH Sokhos 1.98 79 P Pn 06 04 39.1 +0.4

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like BARS, BARS, BARS, etc.

IDC 03 06:04:33.0, 0.4, 0.42N-97.78E, h0km, mb5.2/35, mbtmp5.2/38, ML5.0/3, Error ellipse: s-maj=14.9km s-min=10.8km az=64.0

MOS 03 06:04:33.6, 0.7, 0.25N-97.63E, h17km, mb5.8/6, MS5.6/7, Error ellipse: s-maj=13.3km s-min=8.1km az=107.1

NEIC 03 06:04:35.7, 0.17N-97.45E, h16km, Moment Tensor Solution. Duration: 1s6 Moment tensor: Scale 10^16Np1

NEIC 03 06:04:35.6, 1.7, 0.34N-0.06E, 97.74E, 0.07, h10km, 1km, mb5.5/191, Mw5.2/8, Error ellipse: s-maj=12.6km s-min=9.7km az=24.0

NEIC 03 06:04:37.6, 0.37N-97.75E, h16km, MW5.5/66, Moment Tensor Solution. s29,c35; s66,c93; Duration: 1s6 Moment tensor: Scale 10^17Np1

ISC 03 06:04:36.6, 0.3, 0.34N-0.03E, 97.76E, 0.04, h21km, 3km, h21km, 3km, PP-P, P1083, c13/131048, mb5.4/287, MS5.8/12, 57C-27D, Northern Sumatera

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like GSI, GSI, GSI, etc.

BAND 03 06:04:36.6, 0.3, 0.34N-0.03E, 97.76E, 0.04, h21km, 3km, h21km, 3km, PP-P, P1083, c13/131048, mb5.4/287, MS5.8/12, 57C-27D, Northern Sumatera

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like BSI, BSI, BSI, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like GMJI, CM31, CMAR, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like NACB, NACB, NACB, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like WMQ, TARG, TARG, etc.









YUK4	Talbot Arm	105.16	25	P	PKIKP	06 22 57.5	-0.1
YUK6	Outpost Mounta	105.48	25	P	PKIKP	06 22 58.6	+0.4
PNL	Peninsula	105.67	26	P	PKIKP	06 22 59.0	+0.7
O29M	Mount Kennedy	105.72	26	P	PKIKP	06 22 59.1	+0.6
M31M	Drury Creek, Y	106.41	23	P	PKIKP	06 23 00.5	+0.9
P29M	Windy Craggy	106.42	26	P	PKIKP	06 22 59.9	+0.2
P30M	Million Dollar	106.50	25	P	PKIKP	06 23 00.3	+0.4
O30N	Mendhall	106.52	24	P	PKIKP	06 23 00.4	+0.4
FARO	Faro, Yukon	106.79	22	P	PKIKP	06 23 01.0	+0.6
FLBC	Pleasant Camp	107.11	26	P	PKIKP	06 23 01.6	+0.6
MMPY	Sheldon Lake,	107.33	21	P	PKIKP	06 23 02.5	+1.1
N32M	Quiet Lake	107.52	23	P	PKIKP	06 23 02.6	+0.8
SKAG	Skagway	107.56	25	P	PKIKP	06 23 01.9	+0.2
S31K	Pelican	107.96	27	P	PKIKP	06 23 03.0	+0.4
P32M	Atlin	108.17	25	P	PKIKP	06 23 03.4	+0.4
P33M	Teslin, Yukon	108.18	24	P	PKIKP	06 23 03.7	+0.6
SIT	Sitka	108.86	27	P	PKIKP	06 23 05.0	+0.8
S32K	Killsnoo	108.98	27	P	PKIKP	06 23 05.4	+0.9
R33M	Jennings River	109.42	24	P	PKIKP	06 23 05.7	+0.3
S34M	Telegraph Cree	110.24	25	P	PKIKP	06 23 07.5	+0.0
DLBC	Dease Lake	110.39	25	PP	PKPKP	06 23 38.0	-3.9
DLBC	Dease Lake	110.39	25	P	PKIKP	06 23 07.5	+0.3
U33K	Whale Pass	110.40	28	P	PKIKP	06 23 07.1	0.0
WR3K	Wrangell Islan	110.58	27	P	PKIKP	06 23 07.5	0.0
CRAG	Craig	110.76	28	P	PKIKP	06 23 08.3	+0.4
T35M	Bob Quinn	111.18	26	P	PKIKP	06 23 09.1	+0.3
BEAVL	Fort Liard	111.19	21	P	PKIKP	06 23 09.1	+0.4
YKA	Yellowknife Ar	112.76	16	PP	PKPKP	06 23 54.2	-4.4
YKA	Yellowknife Ar	112.76	16	PP	PKPKP	06 23 54.2	-4.4
NEW	Newport	122.94	27	PKP	PKP	06 23 31.7	+0.1
NEW	Newport	122.94	27	PKP	PKP	06 23 30.9	-0.7
ULM	Lac du Bonnet	128.27	11	PKP	PKP	06 23 41.5	-0.1
NVAR	Mina Array Bea	129.14	37	PKP	PKP	06 23 43.6	-0.1
NVAR	Mina Array Bea	129.14	37	PKP	PKP	06 23 43.9	-0.1
ELK	Elko	129.30	32	PKP	PKP	06 23 44.8	-0.2
DSP	Deep Springs	130.03	37	PKP	PKP	06 23 45.7	+0.4
PDAR	Pinedale Array	130.56	26	PKP	PKP	06 23 45.3	-1.3
PDAR	Pinedale Array	130.56	26	PKP	PKP	06 23 45.5	-1.0
PDAR	Pinedale Array	130.56	26	PKP	PKP	06 23 45.5	-1.0
RSSD	Black Hills	131.65	21	PKP	PKP	06 23 48.9	+0.3
RSSD	Black Hills	131.65	21	PKP	PKP	06 23 48.9	+0.3
PV10	Paradox Valley	134.26	30	PKP	PKP	06 23 54.3	+0.6
PV20	West Nykoping	134.32	30	PKP	PKP	06 23 54.3	+0.6
ANMO	Albuquerque	138.23	30	PKP	PKP	06 23 59.0	-2.1
PLCA	Paso Flores	138.42	193	PKP	PKP	06 24 02.3	-1.9
BDFB	Brasilia	142.95	244	PKP	PKP	06 24 10.8	+0.8
WWT	Waverly	143.34	8	PKP	PKP	06 24 06.8	-0.3
WWT	Waverly	143.34	8	PKP	PKP	06 24 06.8	-0.3
UALR	University of	143.81	14	PKP	PKP	06 24 08.8	+0.4
SLBS	Sierra La Lagu	144.03	47	PKP	PKP	06 24 10.7	-1.0
TXAR	Lajitas Array	144.09	33	PKP	PKP	06 24 10.4	+0.8
OZNA	Ozona	144.10	28	PKP	PKP	06 24 11.6	+1.0
Z38A	Mt. Pleasant	144.19	19	PKP	PKP	06 24 10.8	+0.2
OXF	Oxford	144.68	10	PKP	PKP	06 24 11.1	+0.1
OXF	Oxford	144.68	10	PKP	PKP	06 24 11.1	+0.1
W52A	Murphy	144.71	2	PKP	PKP	06 24 12.6	-0.1
CPUP	Villa Florida	144.74	221	PKP	PKP	06 24 12.4	-0.3
CPUP	Villa Florida	144.74	221	PKP	PKP	06 24 12.4	-0.3
CPUP	Villa Florida	144.74	221	PKP	PKP	06 24 12.4	-0.3
BRDY	Brady	144.74	221	PKP	PKP	06 24 12.6	-0.1
CCAR	Cane Creek	144.77	14	PKP	PKP	06 24 12.2	-0.4
BG3	Lake Jocassee	144.84	1	PKP	PKP	06 24 11.6	0.0
PAULI	Pauline	145.02	359	PKP	PKP	06 24 11.6	-0.7
X48A	Hartselle	145.10	7	PKP	PKP	06 24 11.9	-0.6
241A	Richland Creek	145.13	16	PKP	PKP	06 24 13.1	-0.1
237A	Washett Mt	145.17	21	PKP	PKP	06 24 13.4	0.0
VA05	Santo Domingo	145.39	196	PKP	PKP	06 24 13.7	+0.1
146A	Union	146.57	10	PKP	PKP	06 24 17.9	-0.2
154A	Montrose	147.21	1	PKP	PKP	06 24 19.1	+0.2
456A	Hilliard	149.10	360	PKP	PKP	06 24 24.7	+0.7
241C	Zacatecas	149.12	39	PKP	PKP	06 24 24.6	+0.1
656A	Williston	150.46	6	PKP	PKP	06 24 27.9	-0.2
GO03	Copiapo	150.55	202	PKP	PKP	06 24 29.1	+0.6
A006	Mina Casimiro	150.81	202	PKP	PKP	06 24 20.9	-1.9
AC06	AC06	150.81	202	PKP	PKP	06 24 29.4	+0.4
AC06	AC06	150.81	202	PKP	PKP	06 24 29.4	+0.4
DWPF	Disney Wildern	151.70	358	PKP	PKP	06 24 36.4	+0.9
DWPF	Disney Wildern	151.70	358	PKP	PKP	06 24 30.2	-0.1
DWPF	Disney Wildern	151.70	358	PKP	PKP	06 24 38.6	+1.2
LPAZ	La Paz	158.91	22	PKP	PKP	06 24 37.2	+2.3

SNET 03 06:16:05.0.1.2, 12.87N:89.54W, h39km, ML3.8  
 CATAC 03 06:16:05.0.0.4, 13.1N:2.8.9W, h28km, 2km, M3,73/5,  
 MLV3,7/35, Error ellipse: s-maj=4.8km s-min=2.8km  
 az=43.2, confirmed  
 CGC 03 06:16:06.5.0.6, 13.14N:89.44W, h60km, 8km, MD4.0  
 ICG 03 06:16:05.8.1.4, 13.01N:0.05.89.38W, 0.03, h25km, 13km,  
 n94, r12/114, El Salvador

Code	Station Name	Δ° AZ°	Phase ID	Time	Res
				h m s	ISC
LALI	Alcalda de L	0.48	7 eP	Pn	06 16 17.0 -0.1
LALI	Alcalda de L	0.48	7 eP	Pn	06 16 16.9 -0.1
LALI	Alcalda de L	0.48	7 eP	Pn	06 16 17.0 -0.1
LALI	Alcalda de L	0.48	7 eP	Pn	06 16 17.0 -0.1
PANCS	Alcalda de P	0.63	18 eP	Pn	06 16 18.8 -0.5
JAVYA	Jayaque - finc	0.65	354 eP	Pn	06 16 18.8 -0.9
JAVYA	Jayaque - finc	0.65	354 eP	Pn	06 16 18.8 -0.9
JAVYA	Jayaque - finc	0.65	354 eP	Pn	06 16 18.8 -0.9
JAVYA	Jayaque - finc	0.65	354 eP	Pn	06 16 18.8 -0.9
LOMA	Loma Larga	0.67	18 eS	Pn	06 16 29.9 +0.4
LOMA	Loma Larga	0.67	18 eS	Pn	06 16 19.6 -0.2
LOMA	Loma Larga	0.67	18 eS	Pn	06 16 20.0 +0.5
ITCA	Escuela Especi	0.67	9 eP	Pn	06 16 19.2 -0.6
ITCA	Escuela Especi	0.67	9 eP	Pn	06 16 29.2 -0.3
ITCA	Escuela Especi	0.67	9 eP	Pn	06 16 19.1 -0.7
LFRS	El Faro	0.69	27 iP	Pn	06 16 19.8 -0.3
PMON	Piamonte	0.70	5 eP	Pn	06 16 19.6 -0.7
PMON	Piamonte	0.70	5 eP	Pn	06 16 30.3 -0.1
SEMO	Seminario San	0.71	13 eP	Pn	06 16 19.6 -0.7
SEMO	Seminario San	0.71	13 eP	Pn	06 16 19.6 -0.7
UTEC	Universidad Te	0.71	14 eP	Pn	06 16 20.0 -0.3
UTEC	Universidad Te	0.71	14 eP	Pn	06 16 30.6 +0.1
UEES	Universidad Ev	0.72	11 eP	Pn	06 16 19.7 -0.7
UEES	Universidad Ev	0.72	11 eP	Pn	06 16 30.6 -0.1
BOGS	Boqueron	0.73	8 iP	Pn	06 16 20.2 -0.5
UBDS	Universidad Do	0.74	18 eP	Pn	06 16 30.4 -0.4
UBDS	Universidad Do	0.74	18 eP	Pn	06 16 31.5 +0.4
COEG	Centro de Oper	0.78	39 eP	Pn	06 16 20.8 -0.5
COEG	Centro de Oper	0.78	39 eP	Pn	06 16 32.4 +0.2

Code	Station Name	Δ° AZ°	Phase ID	Time	Res
				h m s	ISC
COEG	Centro de Oper	0.78	39 eP	Pn	06 16 20.8 -0.5
TECO	Alcaldia de Te	0.79	48 eP	Pn	06 16 21.3 0.0
TECO	Alcaldia de Te	0.79	48 eP	Pn	06 16 21.3 0.0
CEDA	San Andres	0.79	359 eP	Pn	06 16 20.7 -0.7
CEDA	San Andres	0.79	359 eP	Pn	06 16 31.4 +0.1
CEDA	San Andres	0.79	359 eP	Pn	06 16 20.9 -0.6
CEDA	San Andres	0.79	359 eP	Pn	06 16 31.1 +0.7
PAVA	Las Pavas	0.82	32 eP	Pn	06 16 21.6 -0.3
PAVA	Las Pavas	0.82	32 eP	Pn	06 16 33.8 +0.4
PAVA	Las Pavas	0.82	32 eP	Pn	06 16 21.6 -0.3
CEVE	Cerro Verde	0.85	344 eP	Pn	06 16 21.5 -0.8
CEVE	Cerro Verde	0.85	344 eP	Pn	06 16 21.6 -0.8
CEVE	Cerro Verde	0.85	344 eP	Pn	06 16 21.6 -0.8
UESV	Universidad de	0.85	43 eP	Pn	06 16 21.8 -0.4
UESV	Universidad de	0.85	43 eP	Pn	06 16 34.0 +0.5
UESV	Universidad de	0.85	43 eP	Pn	06 16 21.8 -0.4
ALJI	Alcalda de J	0.85	68 eP	Pn	06 16 22.2 0.0
ALJI	Alcalda de J	0.85	68 eP	Pn	06 16 34.8 +0.5
ALJI	Alcalda de J	0.85	68 eP	Pn	06 16 22.2 0.0
SCLA	Alcaldia de Sa	0.94	43 eP	Pn	06 16 23.8 +0.3
SCLA	Alcaldia de Sa	0.94	43 eP	Pn	06 16 37.3 +1.2
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 22.6 -1.4
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 35.5 -1.1
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 22.6 -1.4
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 35.5 -1.1
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 22.6 -1.4
NUBE	Las Nubes	0.97	337 eP	Pn	06 16 35.5 -1.1
UNIC	Universidad Ca	0.98	351 eP	Pn	06 16 23.3 -0.9
UNIC	Universidad Ca	0.98	351 eP	Pn	06 16 37.3 +0.3
UNIC	Universidad Ca	0.98	351 eP	Pn	06 16 23.3 -0.9
UNIC	Universidad Ca	0.98	351 eP	Pn	06 16 37.3 +0.3
POSS	Pres 15 de Se	1.01	53 eP	Pn	06 16 24.5 -0.2
POSS	Pres 15 de Se	1.01	53 eP	Pn	06 16 38.0 +0.5
POSS	Pres 15 de Se	1.01	53 eP	Pn	06 16 24.5 -0.2
POSS	Pres 15 de Se	1.01	53 eP	Pn	06 16 38.0 +0.5
LOAL	Lomas de Alarc	1.06	339 eP	Pn	06 16 24.1 -1.0
LOAL	Lomas de Alarc	1.06	339 eP	Pn	06 16 39.1 0.0
LOAL	Lomas de Alarc	1.06	339 eP	Pn	06 16 24.1 -1.0
LOAL	Lomas de Alarc	1.06	339 eP	Pn	06 16 39.1 0.0
SLOZ	Alcaldia de Sa	1.08	339 eP	Pn	06 16 24.6 -0.8
SLOZ	Alcaldia de Sa	1.08	339 eP	Pn	06 16 39.4 -0.2
SLOZ	Alcaldia de Sa	1.08	339 eP	Pn	06 16 24.6 -0.8
SLOZ	Alcaldia de Sa	1.08	339 eP	Pn	06 16 39.4 -0.2
PACAY	Pacayal	1.13	66 eS	Pn	06 16 42.0 +1.1
PACAY	Pacayal	1.13	66 eS	Pn	06 16 26.7 0.0
PACAY	Pacayal	1.13	66 eS	Pn	06 16 42.0 +1.1
PACAY	Pacayal	1.13	66 eS	Pn	06 16 26.7 0.0
RANC	El Ranchito	1.15	68 eP	Pn	06 16 24.4 -2.0
RANC	El Ranchito	1.15	68 eP	Pn	06 16 40.4 -1.2
RANC	El Ranchito	1.15	68 eP	Pn	06 16 24.4 -2.0
RANC	El Ranchito	1.15	68 eP	Pn	06 16 40.4 -1.2
BLLM	Bellmar	1.20	69 eP	Pn	06 16 27.5 -0.4
BLLM	Bellmar	1.20	69 eP	Pn	06 16 41.9 -1.6
BLLM	Bellmar	1.20	69 eP	Pn	06 16 27.5 -0.4
BLLM	Bellmar	1.20	69 eP	Pn	06 16 41.9 -1.6
CNCR	Centro Naciona	1.27	68 eS	Pn	06 16 28.8 -0.9
CNCR	Centro Naciona	1.27	68 eS	Pn	06 16 40.0 +1.0
CNCR	Centro Naciona	1.27	68 eS	Pn	06 16 28.8 -0.9
CNCR	Centro Naciona	1.27	68 eS	Pn	06 16 40.0 +1.0
MT03	Montecristo	1.38	1 iP	Pn	06 16 28.8 -0.9
MT03	Montecristo	1.3			

Table with columns: ICAO, Name, Frequency, Mode, Power, and other technical details. Includes stations like Kota Kinabalu, Manu Island, Wanagama, Semarang, Yogyakarta, etc.

Table with columns: ICAO, Name, Frequency, Mode, Power, and other technical details. Includes stations like Toolangi, Toolangi, Toolangi, Toolangi, Toolangi, etc.

Table with columns: ICAO, Name, Frequency, Mode, Power, and other technical details. Includes stations like Lake Benmore, Lake Benmore, Kuaotunu, Hauiti, Hauiti, etc.

3d 6h

Table with columns for station name, coordinates, elevation, and various performance metrics (P, I, S, etc.). Includes stations like NILore, SHLShalkode, TARagay, etc.

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Table with columns for station name, coordinates, elevation, and various performance metrics. Includes stations like KK31 Karatay Array, KKAR Karatay Array, CHM Chiment, etc.

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Table with columns for station name, coordinates, elevation, and various performance metrics. Includes stations like M14K Bethel, J14K Namvaranak Lak, ANM Nonvanarak, etc.

M20K	Styx River	90.22	28	I	Amb	I	Amb	06 40 26.2
M20K	Styx River	90.22	28	P	P	P	P	06 39 08.1 0.0
J20K	Nowinta River	90.36	25	P	P	P	P	06 39 09.0 +0.4
I20K	Naaghedeneel	90.39	25	P	P	P	P	06 39 09.2 +0.6
HOM	Homer	90.40	30	P	P	P	P	06 39 09.2 +0.4
H20K	Anotleneega Mo	90.41	24	P	P	P	P	06 39 09.3 +0.5
GNI	Garni	90.43	310	i	P	P	P	06 39 10.7 +1.0
N20K	Mount Spurr	90.48	28	P	P	P	P	06 39 09.3 0.0
SPCR	Spurr Chakacha	90.48	28	P	P	P	P	06 39 09.2 -0.1
BELG	Belogomoye	90.52	323	P	P	P	P	06 39 08.2 -1.3
BELG	Belogomoye	90.52	323	i	P	P	P	06 39 08.0 -1.5
F20K	Avarant Lake	90.52	22	P	P	P	P	06 39 09.5 +0.3
D20K	Etilvik River	90.69	21	P	P	P	P	06 39 10.4 +0.4
E20K	Nigu River	90.70	21	P	P	P	P	06 39 10.5 +0.4
KIRV	Kirov	90.74	329	e	P	P	P	06 39 10.1 -0.3
KIRV	Kirov	90.74	329	e	P	P	P	06 39 09.8 -0.6
BRSE	Bradley Lake S	90.86	30	P	P	P	P	06 39 11.4 +0.4
PLLA	Purkeypile	90.89	27	P	P	P	P	06 39 11.6 +0.4
B20K	Meade River	90.90	19	P	P	P	P	06 39 11.5 +0.6
SKT	Skwentna	90.98	28	P	P	P	P	06 39 12.2 +0.7
CAST	Castle Rocks	91.06	26	P	P	P	P	06 39 12.2 +0.3
CHUM	Lake Minchumin	91.07	26	P	P	P	P	06 39 12.9 +1.1
G21K	Allakaket	91.22	23	P	P	P	P	06 39 13.1 +0.5
SUA	Susitna One	91.23	28	P	P	P	P	06 39 13.1 +0.3
H21K	Melozitna River	91.29	24	P	P	P	P	06 39 13.1 +0.3
F21K	Alatna River	91.41	22	P	P	P	P	06 39 13.4 -0.1
C21K	Knifeblade Rid	91.45	20	P	P	P	P	06 39 13.8 +0.2
I21K	Tanana	91.51	24	I	Amb	I	Amb	06 39 32.8
I21K	Tanana	91.51	24	P	P	P	P	06 39 13.8 0.0
E21K	Kiliik River	91.55	21	P	P	P	P	06 39 14.1 +0.1
SEW	Seward	91.58	30	P	P	P	P	06 39 14.8 +0.6
RC01	Rabbit Creek A	91.63	29	P	P	P	P	06 39 15.3 +0.7
B21K	Ikpikpuk River	91.64	20	P	P	P	P	06 39 14.9 +0.5
BPaw	Bear Paw Mtn.	91.69	26	P	P	P	P	06 39 15.4 +0.7
TRF	Thorofare Moun	91.85	26	P	P	P	P	06 39 15.8 +0.1
A22K	Sinclair Lake	91.89	19	P	P	P	P	06 39 15.9 +0.4
H22K	Ishlaltina Cre	91.92	24	P	P	P	P	06 39 16.4 +0.6
F22K	John River	91.97	22	P	P	P	P	06 39 16.4 +0.4
MLY	Manley	91.99	25	P	P	P	P	06 39 15.8 -0.4
MLY	Manley	91.99	25	P	P	P	P	06 39 16.2 0.0
PMR	Palmer	92.01	28	P	P	P	P	06 39 17.1 +0.9
G22K	Bettles	92.09	23	P	P	P	P	06 39 16.9 +0.4
D22K	Aiyikay River	92.11	21	P	P	P	P	06 39 16.8 +0.2
B22K	Teshkepuk Lake	92.22	19	P	P	P	P	06 39 17.4 +0.4
E22K	Anaktuvuk Pass	92.25	22	P	P	P	P	06 39 17.1 -0.2
PWL	Port Wells	92.26	29	P	P	P	P	06 39 17.1 -0.3
GURO	Guroymak-BITLI	92.29	308	I	Amb	I	Amb	06 39 21.0
KBZ	Khabaz	92.29	314	P	P	P	P	06 39 17.5 -0.4
KBZ	Khabaz	92.29	314	e	P	P	P	06 39 18.4 +0.5
KNK	Knik Glacier	92.30	28	P	P	P	P	06 39 17.5 -0.1
SHA1	Shidzhatmaz	92.47	314	i	P	P	P	06 39 18.9 -0.2
KIV	Kislovodsk	92.47	314	e	P	P	P	06 39 17.4 -1.5
RND	Reindeer	92.48	26	I	Amb	I	Amb	06 39 19.3
M3K	McKinley	92.50	26	P	P	P	P	06 39 18.5 -0.1
P23K	Montague Islan	92.57	30	P	P	P	P	06 39 18.6 -0.2
I23K	Minto, Yukon-K	92.59	25	I	Amb	I	Amb	06 39 20.6
I23K	Minto, Yukon-K	92.59	25	P	P	P	P	06 39 18.6 -0.2
NEA2	Nenana	92.60	25	P	P	P	P	06 39 18.7 -0.2
G23K	Bananza Creek	92.62	23	P	P	P	P	06 39 19.1 +0.1
H23K	Yukon River	92.64	24	P	P	P	P	06 39 19.4 +0.3
COLD	Coldfoot	92.66	23	P	P	P	P	06 39 19.4 +0.3
WAT6	Susitna Watana	92.83	27	P	P	P	P	06 39 21.0 +0.7
D23K	Nanushuk River	92.84	21	P	P	P	P	06 39 20.6 +0.6
GLI	Glacier Island	92.86	29	P	P	P	P	06 39 20.6 +0.3
SCM	Sheep Creek Mo	92.90	28	P	P	P	P	06 39 20.3 -0.2
WRH	Wood River Hill	93.00	25	I	Amb	I	Amb	06 39 21.6
E23K	Chandalar	93.04	22	P	P	P	P	06 39 20.7 -0.3
C23K	Iklikik River	93.04	20	P	P	P	P	06 39 20.7 -0.1
DHY	Denali Highway	93.08	27	P	P	P	P	06 39 21.0 -0.4
DHY	Denali Highway	93.08	27	P	P	P	P	06 39 20.8 -0.5
CCB	Clear Creek Bu	93.15	25	I	Amb	I	Amb	06 39 22.6
TOLK	Toolik Lake Re	93.17	21	P	P	P	P	06 39 21.9 +0.3
H24K	Noodor Dome	93.32	24	I	Amb	I	Amb	06 39 24.2
H24K	Noodor Dome	93.32	24	P	P	P	P	06 39 22.8 +0.5
POKR	Poker Plat Res	93.38	25	P	P	P	P	06 39 22.6 +0.1
E24K	Your Creek	93.46	22	P	P	P	P	06 39 22.6 -0.3
EYAK	Cordova Ski Ar	93.47	30	P	P	P	P	06 39 23.0 0.0
HDA	Harding Lake	93.48	26	I	Amb	I	Amb	06 39 23.8
HDA	Harding Lake	93.48	26	P	P	P	P	06 39 23.2 +0.3
M24K	Tolsona, Glenn	93.48	28	P	P	P	P	06 39 23.4 +0.3
KLU	Klutina	93.51	29	P	P	P	P	06 39 23.8 +0.5

D24K	Happy Valley	93.53	21	P	P	P	P	06 39 23.5 +0.4
IL31	Eielson Array	93.56	25	P	P	P	P	06 39 22.0 -1.2
ILAR	Eielson Array	93.56	25	P	P	P	P	06 39 21.5 -1.9
ILAR	Eielson Array	93.56	25	P	P	P	P	06 39 21.8 -1.5
ILAR	Squaw Lake	93.59	22	I	Amb	I	Amb	06 39 25.9
F24K	Squaw Lake	93.59	22	I	Amb	I	Amb	06 39 25.9
F24K	Squaw Lake	93.59	22	P	P	P	P	06 39 24.0 +0.5
G24K	Headwinc Riv	93.62	23	P	P	P	P	06 39 24.1 +0.5
C24K	Franklin Bluff	93.67	20	P	P	P	P	06 39 24.7 +1.0
K24K	Donnelly Dome	93.90	26	P	P	P	P	06 39 25.4 +0.4
PAX	Paxson	93.92	27	P	P	P	P	06 39 25.6 +0.5
HARP	HAARP	93.99	28	P	P	P	P	06 39 25.7 +0.3
KAIM	Kayak Island	94.04	30	P	P	P	P	06 39 26.3 +0.6
TROLL	Troll, Antarti	94.05	194	i	P	P	P	06 39 26.9 +1.2
BMRM	Bremner River	94.08	29	I	Amb	I	Amb	06 42 56.0
BMRM	Bremner River	94.08	29	P	P	P	P	06 39 26.3 +0.5
N25K	Chitina, Valde	94.16	29	P	P	P	P	06 39 26.5 +0.2
G25K	Bearman Lake	94.17	23	P	P	P	P	06 39 27.1 +1.0
J25K	Salcha River	94.18	26	P	P	P	P	06 39 24.8 -1.5
J25K	Salcha River	94.18	26	P	P	P	P	06 39 25.5 +0.1
H25L	Birch Creek	94.21	24	P	P	P	P	06 39 26.8 +0.6
PRP	Porcupine Dome	94.23	25	P	P	P	P	06 39 26.5 -0.1
RIDG	Independent Ri	94.30	26	P	P	P	P	06 39 26.5 -0.4
RIDG	Independent Ri	94.30	26	I	Amb	I	Amb	06 41 47.5
RIDG	Independent Ri	94.30	26	P	P	P	P	06 39 26.6 -0.2
D25K	Kavik River	94.42	21	P	P	P	P	06 39 27.5 +0.3
F25K	Christian Rive	94.45	23	P	P	P	P	06 39 27.6 +0.1
FYU	Fort Yukon	94.48	24	I	Amb	I	Amb	06 39 29.9
E25K	Arctic Village	94.55	22	P	P	P	P	06 39 27.9 0.0
BGLC	Bering Glacier	94.63	30	P	P	P	P	06 39 28.3 0.0
DOT	Dot Lake	94.64	27	I	Amb	I	Amb	06 39 29.9
SCR	Sand Creek	94.71	26	P	P	P	P	06 39 28.9 +0.2
BELA	Belgrano 2	94.81	183	P	P	P	P	06 39 29.5 +0.6
BMAR	Burnt Mountain	94.84	23	P	P	P	P	06 39 28.7 -0.5
MCARA	McCarthy VSAT	94.88	29	P	P	P	P	06 39 29.3 -0.2
L26K	Log Cabin Wild	94.89	27	P	P	P	P	06 39 30.0 +0.5
J26L	Joseph Creek	94.94	26	I	Amb	I	Amb	06 39 31.4
J26L	Joseph Creek	94.94	26	P	P	P	P	06 39 29.3 -0.5
F26K	Sheenjek River	95.04	22	P	P	P	P	06 39 30.4 +0.3
G26K	Porcupine Rive	95.10	23	P	P	P	P	06 39 30.7 +0.4
I26K	Coal Creek Min	95.20	25	I	Amb	I	Amb	06 43 07.8
I26K	Coal Creek Min	95.20	25	P	P	P	P	06 39 31.0 +0.2
MESA	MESA	95.30	30	P	P	P	P	06 39 31.2 -0.5
C27K	Jag River	95.39	21	P	P	P	P	06 39 32.0 +0.4
VORD	Divnogorie	95.47	321	e	P	P	P	06 39 29.7 -2.6
M27K	Beaver Creek, AK	95.51	28	P	P	P	P	06 39 33.1 +0.6
K27K	Chicken	95.55	26	I	Amb	I	Amb	06 39 35.3
K27K	Chicken	95.55	26	P	P	P	P	06 39 32.6 +0.2
SNA4	Sanae	95.56	194	i	P	P	P	06 39 33.8 +1.3
SNA4	Sanae	95.56	194	P	P	P	P	06 39 33.2 +0.7
VSR	Storozhevoye	95.57	321	e	P	P	P	06 39 29.7 -3.1
L27K	Beaver Creek	95.59	27	I	Amb	I	Amb	06 39 34.6
L27K	Beaver Creek	95.59	27	P	P	P	P	06 39 32.6 -0.1
BCAR	Beaver Creek A	95.61	27	P	P	P	P	06 39 33.2 +0.4
CTG	Chitna Glacier	95.66	29	P	P	P	P	06 39 34.3 +0.1
ASF	Jabal al Asfar	95.83	302	P	P	P	P	06 39 34.9 +0.3
I27K	Kandik River	95.86	25	P	P	P	P	06 39 34.4 +0.4
G27K	Doyon Strip	95.93	23	P	P	P	P	06 39 34.5 +0.4
H27K	Steamboat Moun	95.94	24	I	Amb	I	Amb	06 39 37.5
H27K	Steamboat Moun	95.94	24	P	P	P	P	06 39 34.5 +0.2
GAZ	Gaziantep	95.95	307	I	Amb	I	Amb	06 39 36.9
KLMR	Klimovskoe	96.01	331	e	P	P	P	06 39 31.0 -3.6
E27K	Coleen River	96.04	22	P	P	P	P	06 39 35.2 +0.5
PINM	Pinnacle	96.14	30	P	P	P	P	06 39 35.7 +0.4
O28M	Mount Upton	96.21	30	P	P	P	P	06 39 35.3 -0.6
D27M	Malcolm River	96.33	21	P	P	P	P	06 39 36.3 +0.4
I28M	Miner Creek	96.55	25	I	Amb	I	Amb	06 39 39.3
I28M	Miner Creek	96.55	25	P	P	P	P	06 39 37.0 -0.1
PNL	Peninsula	96.55	31	P	P	P	P	06 39 37.1 0.0
F28M	Old Crow	96.66	23	P	P	P	P	06 39 37.4 -0.1
DAWY	Dawson	96.73	26	I	Amb	I	Amb	06 39 41.1
DAWY	Dawson	96.73	26	P	P	P	P	06 39 37.7 -0.2
E28M	Babbage River	96.82	22	P	P	P	P	06 39 39.0 +0.9
YUK4	Talbot Arm	96.99	29	P	P	P	P	06 39 39.5 +0.2
O29M	Mount Kennedy	96.99	30	I	Amb	I	Amb	06 39 46.6
O29M	Mount Kennedy	96.99	30	P	P	P	P	06 39 39.4 +0.2
M29M	Somme Creek	97.10	28	P	P	P	P	06 39 39.9 +0.2
YUK6	Outpost Mounta	97.11	29	P	P	P	P	06 39 40.2 +0.2
MMAI	Mount Meron Ar	97.15	302	P	P	P	P	06 39 40.

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like Davos/Dischmat, EGMAT, DUG, HWUT, SENIN, etc.

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like WHF, JYNG, OWD, WVDT, WND, etc.

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like CHN1, TWK, Tainan City, Chiayi, Tuku, etc.

JMA 03 06:44:46.2, 0.2, 2.3, 7N, 0.7, 122.2E, 0.5, h31km, 4km, MV3.3/16, TAIWAN REGION

TAP 03 06:44:47.0, 2.3, 7N, 1.2, 122.1E, h37km, ML3.9, C ISC 03 06:44:46.3, 1.2, 2.74N, 0.102, 122.2E, 0.02, h33km, 4km, n157, o079/282, 1C-4D, Taiwan region

TIR 03 06:45:07.8, 40.43N-20.78E, h2km, 2km, M12.6/5, ATH 03 06:45:10.4, 40.39N-20.95E, h6km, 1km, ML2.2/8, Manual Solution by G.Panopoulos First location: 2019/06/03 06:46:23, This location: 2019/06/03 16:45:25 ML

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like E0S4, E0S3, TEYL, SHUL, etc.

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like WNT, CHNS, LIOB, NSIT, etc.

ISC 03 06:45:08.7, 1.1, 40.43N-0.03, 20.83E-0.03, h3km, 11km, n20, o075/32, Greece-Albania border region

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like Nestorio, Korca, Leskovik, etc.

IDC 03 06:49:30.2, 1.9, 23.65S-67.07W, h167km, 19km, mb3.5/3, mbmp3.9/8, Error ellipse: s-maj=29.8km s-min=14.7km az=104.0

NEIC 03 06:49:31.5, 2.5, 23.73S-0.07, 67.2W, 0.1, h193km, 10km, mb4.3/10, ML4.0(GUC), Error ellipse: s-maj=14.6km s-min=9.3km az=103.0

SJA 03 06:49:31.1, 0.9, 23.70S-67.21W, h203km, ML3.7, MW3.7 GUC 03 06:49:32.2, 0.7, 23.71S-67.40W, h215km, 5km, ML4.0

ISC 03 06:49:31.4, 0.6, 23.70S-0.04, 67.23W, 0.04, h195km, 6km, n85, o129/112, mb4.3/4, 6C-1D, Chile-Argentina border region

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like SALTA, AF01, AZAP, etc.





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Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Leskovik, Pentailotos, Laimos Florina, Kipourio, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ACHA, N17K, ANCK, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SUCK, BERG, WACK, PAX, etc.

IDC 03 07:20:06.5-1.5, 60.08N-152.89W, h92km, 24km, mb3.6/9, mbmp4.0/14, Error ellipse: s-maj=29.8km s-min=10.6km az=114.0

NEIC 03 07:20:08.8-0.7, 60.04N-152.82W, 0.07, h113km, 4km, Error ellipse: s-maj=5.1km s-min=5.0km az=176.0

AEIC 03 07:20:09.9-1.2, 60.00N-152.86W, 0.06, h112km, 4km, ML3.6, mb3.9/5(NEIC), ML3.7/200(NEIC), Error ellipse: s-maj=5.1km s-min=4.5km az=158.0

ISC 03 07:20:08.7-0.6, 60.00N-152.75W, 0.04, h119km, 5km, n202, 0.95/189, mb3.9/11, Southern Alaska

Main table listing station codes and names, including Slope Mountain, Iliamna Low So, Redoubt Volcan, etc.

Main table listing station codes and names, including ACHA, N17K, ANCK, etc.

Main table listing station codes and names, including SUCK, BERG, WACK, PAX, etc.

IDC 03 07:27:53.6-1.3, 2.38N, 123.49E, h0km, mb3.9/6, mbmp3.9/6, Error ellipse: s-maj=263.0km s-min=18.9km az=64.0

DJA 03 07:28:00.4-0.4, 1.14N x 12.0E, h10km, M4.2/9, MLV4.2/9, ISC 03 07:27:59.8-1.0, 0.85N-120.19E, 0.07, h28km, n14, 0.186/17, mb4.0/6, Minahasa Peninsula, Sulawesi

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Mapaga, Palu, Marisa, Ampana, Luwuk, Cibanong, Tina Toraja, Sidrap Palu, Warramunga Arr.

IDC 03 07:30:12.7:3.8, 53:70N:88:09E, h0km, mbtmp2.5/2, ML2.2/2, Error ellipse: s-maj=37.9km s-min=20.9km az=48.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 07:47:31.0:0.9, 53:68N:86:77E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 07:47:31.9:2.8, 53:75N:87:04E, h0km, mbtmp2.4/2, ML2.3/2, Error ellipse: s-maj=28.0km s-min=16.1km az=68.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 07:50:38.0:0.9, 54:18N:87:16E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 07:50:36.7:3.4, 54:23N:87:41E, h0km, mbtmp2.7/2, ML2.4/2, Error ellipse: s-maj=28.7km s-min=20.2km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 07:54:51.0:0.6, 53:93N:86:57E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 07:54:52.2:2.6, 53:90N:86:73E, h0km, mbtmp2.9/2, ML2.6/2, Error ellipse: s-maj=22.9km s-min=14.0km az=65.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

CATAC 03 07:55:07.0:0.6, 12:14N:87W, h37km, 5km, M2.5/9, MLV2.5/9, Error ellipse: s-maj=9.5km s-min=5.2km az=26.0, confirmed, Near coast of Nicaragua

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like San Cristobal, Cerro Pekin, Cosiguina Volc, Potosi Cosigui.

CATAC 03 07:55:39.0:0.5, 14:24N:91:06W, h88km, 5km, MD3.5, ML3.0, MW2.7, Guatemala

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like San Cristobal, Cerro Pekin, Cosiguina Volc, Potosi Cosigui, YUSCARAN.

GCG 03 07:55:39.0:0.5, 14:24N:91:06W, h88km, 5km, MD3.5, ML3.0, MW2.7, Guatemala

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Sabana Grande, El Palmer, Yecopaca, Alocanango, Las Nubes.

MEX 03 07:56:01.2:1.2, 16:35N:98:49W, h6km, 7km, MD4.1, Near coast of Guerrero

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Pinotepa, Cruz Grande, Malinaltepec, Yosondua, Tlaxiaco, Tlapiapa, Los Arroyos, Puerto Escondido, Fresnillo de T, Huajuapán de L, Hualtuac, Vuelta Hermosa, Oaxaca, El Cayaco, Oaxaca, Mezcala, Topxalan, Platanillo, Tehuacan, Huatulco, Yautepac, Popocatepetl, Cuicatlan, Popocatepetl, Malinalco, Amatlan, San Francisco, Arroyo Zacate, San Miguel Top, Tlapan, Universidad Na, La Marquesa, Zihuatanejo, Pinon, Cuida Lopez Ma, Matias Romero, Laguna Verde, Demacu, Morelia.

PRU 03 07:59:02.8, 50:46'N:16:93E, h0km, Poland

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Kralky, Dobruska-Polom, Ostrava-Krasne.

VIE 03 07:59:48.5:0.3, 49:01'N:16:33E, h0km, mb1.2/2, ml1.6/3, Error ellipse: s-maj=2.8km s-min=2.1km az=126.0, 32 km N of Laa. At. Thaya Suspected Mining explosion., Czech and Slovak Republics

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Moravsky, Moravsky Berou, Conrad Observa, Molin, Molin.

ASRS 03 08:00:26.0:1.0, 54:20N:86:40E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 08:00:27.3:2.8, 54:19N:86:48E, h0km, mbtmp2.7/2, ML2.6/2, Error ellipse: s-maj=22.6km s-min=13.3km az=56.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

IDC 03 08:01:26.0:2.1, 2:36'N:125:49E, h0km, mb3.5/3, mbtmp3.5/3, Error ellipse: s-maj=190.3km s-min=28.0km az=65.0, Talaud Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Warramunga Arr, Alice Springs, Makanchi Array.

ASRS 03 08:12:25.0:1.5, 53:77N:91:05E, h0km, M3.2, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

NINC 03 08:12:31.2:6.2, 53:05N:91:18E, h0km, mb3.4, mpv3.1, Error ellipse: s-maj=45.7km s-min=31.3km az=82.0, Suspected Mining explosion.

IDC 03 08:12:32.0:3.2, 53:63N:90:73E, h0km, mbtmp3.2/3, ML2.8/3, Error ellipse: s-maj=26.4km s-min=22.7km az=63.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:47.4:1.5, 13:11N:89:46W, h52km, ML3.3, CATAC 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

GCG 03 08:23:49.8:0.7, 13:28N:89:47W, h49km, 9km, MD3.9, ISC 03 08:23:48.8:1.9, 13:1N:89:45W, h48km, 14km, n60, 0:72/66, El Salvador

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Alcalda de L, Jayaque - finc, Universidad Te, Universidad Ev, El Fero, Boqueron, Universidad Do, Universidad Do, San Andres, San Andres, Cerro Verde, Cerro Verde, Centro de Oper, Centro de Oper, Las Pavas, Las Pavas, TECO, Alcala de Te, Universidad de, Universidad de, Las Nubes, Las Nubes, Las Nubes, Universidad Ca, Universidad Ca.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

ASRS 03 08:23:48.7:0.4, 13:1N:89:46W, h51km, 3km, M3.2/2.4, MLV3.2/2.4, Error ellipse: s-maj=7.0km s-min=3.6km az=25.0, confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, Kurchatov Arra, Kurbb, MKAR Makanchi Array.

2019 JUN

3d 8h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like ALJI, SCLA, LOAL, LOMAS, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SMY, SMY, SJA, SJA, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like M24K, Tolsona, Glenn, etc.

KRSC 03 08:39:55.1, 2.0, 50.73N; 156.93E; h123km, 15km, M14, 4, Felt (I-III) at Podgornay.

NEIC 03 08:39:56.9, 1.4, 50.95N; 156.09E; 1.1, h119km, 6km, mb4.3/130, Error ellipse: s-maj=15.2km s-min=10.3km

MOS 03 08:39:56.3, 1.0, 50.93N; 156.49E; h134km, mb3.2/19, Error ellipse: s-maj=9.0km s-min=3.6km az=71.3

IDC 03 08:39:58.0, 0.9, 51.02N; 156.41E; h134km, 7km, mb3.7/28, mbmp4.1/36, MS2.71, Error ellipse: s-maj=13.5km s-min=8.6km az=158.0

ISC 03 08:39:56.7, 0.5, 50.85N; 156.63E; 0.05, h125km, 4km, h125km; p-P, n306, t118/305, mb4.2/97, 4C-2D, Kuril Islands

Main station list table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SKR, SKR, SKR, etc.

Main station list table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like ZEA, ATKA, ATKA, etc.

Main station list table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like M24K, Tolsona, Glenn, etc.

Table with columns: Code, Station Name, Az, Alt, Phase ID, Time, Res, S, I, C, P, N, M. Includes stations like Pinedale Array, Greenwater Val, Finesse Array B, etc.

Table with columns: Code, Station Name, Az, Alt, Phase ID, Time, Res, S, I, C, P, N, M. Includes stations like MOS 03, NEIC 03, VAO 03, etc.

Table with columns: Code, Station Name, Az, Alt, Phase ID, Time, Res, S, I, C, P, N, M. Includes stations like SIV San Ignacio, BBSO Serra de San D, NNA Nana, etc.

3d 8h

Table with columns for call sign, name, frequency, power, and status. Includes entries like Popayan, Colom, Parabuna, Futaleuf, Monte Alegre, etc.

2019 JUN

Table with columns for call sign, name, frequency, power, and status. Includes entries like Cathedral Cave, Cathedral Cave, Adam Dzewonski, etc.

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Table with columns for call sign, name, frequency, power, and status. Includes entries like South Pole Qui, Black Hills, Blindstream Ca, etc.





3d 10h

Table with columns: Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like HATHI, SBLHI, KANE NUI, etc.

ASRS 03 09:15:19.0, 0.9, 53.56N, 86.89E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 03 09:15:20.9, 2.9, 53.61N, 86.96E, h0km, mbtmp2.7/2, ML2.4/2, Error ellipse: s-maj=28.4km s-min=16.1km az=65.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like I46RU, ZALV, ZALV, KURBB, MKAR, etc.

NEIC 03 09:17:58.6, 0.7, 19.20N, 0.07, 155.45W, 0.07, h29km, 15km, Error ellipse: s-maj=13.6km s-min=3.9km az=140.0, Hawaiian Islands

HVO 03 09:17:58.9, 0.3, 19.15N, 0.08, 155.42W, 0.07, h28km, 9km, ML2.2/6, ML2.5/22(NEIC), Error ellipse: s-maj=14.0km s-min=3.6km az=140.0, Hawaiian Islands

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like HTC, HLP, KHU, KHU, KHU, etc.

IDC 03 09:24:03.5, 1.8, 54.70N, 83.77E, h0km, mbtmp2.8/3, ML2.5/3, Error ellipse: s-maj=17.8km s-min=10.6km az=18.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like I46RU, ZALV, ZALV, KURBB, MKAR, etc.

0.1nm, 0.3s, baz=66, slow=14, SNR=5.3 0.8nm, 0.3s

ASRS 03 09:36:56.0, 0.6, 54.68N, 83.63E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 03 09:36:56.0, 1.9, 54.69N, 83.72E, h0km, mbtmp3.0/2, ML2.6/2, Error ellipse: s-maj=17.2km s-min=11.3km az=16.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like I46RU, ZALV, ZALV, KURBB, MKAR, etc.

IDC 03 09:42:50.8, 0.7, 12.24N, 123.72E, h0km, mb4.0/11, mbtmp4.0/12, ML4.4/1, MS3.6/28, Error ellipse: s-maj=27.6km s-min=15.0km az=72.0

NEIC 03 09:42:55.2, 0.9, 12.34N, 102.05, 123.7E, 0.1, h25km, 6km, mb4.6/16, Error ellipse: s-maj=16.9km s-min=7.1km az=76.0

IDC 03 09:42:53.0, 0.6, 12.33N, 102.08, 123.81E, 0.10, h14km, n59, #087/34, mb4.4/19, MS3.6/25, Luzon

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like TGY, TGY, DAV, WYLDN, etc.

NEIC 03 09:47:58.6, 0.7, 19.20N, 0.07, 155.45W, 0.07, h29km, 15km, Error ellipse: s-maj=13.6km s-min=3.9km az=140.0, Hawaiian Islands

HVO 03 09:17:58.9, 0.3, 19.15N, 0.08, 155.42W, 0.07, h28km, 9km, ML2.2/6, ML2.5/22(NEIC), Error ellipse: s-maj=14.0km s-min=3.6km az=140.0, Hawaiian Islands

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like HNR, NWA0, BBOO, STKA, etc.

NEIC 03 09:50:54.0, 0.6, 48.28N, 110.03, 113.11W, 0.03, h5km, 1km, ML2.5/14, ML2.9/17(BUT), Error ellipse: s-maj=3.5km

BUT 03 09:50:54.0, 0.6, 48.28N, 110.03, 113.11W, 0.03, h3km, 2km, Error ellipse: s-maj=3.1km s-min=2.7km az=83.0, Montana

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like SLMT, HSPGA, etc.

LSZ Lusaka 98.50 256 LR LR 10 36 17.9 comp=Z, 4.2nm, 20.5s, baz=11.6, slow=33

BORG Borgarnes 98.76 346 LR LR 10 43 50.5 comp=Z, 1.8nm, 20.4s, baz=30, slow=37

PLCA Paso de la Luna 149.02 159 PKPbc PKPbc 10 02 40.2 -0.9 comp=Z, 1.0nm, 0.9s, baz=238, slow=15, SNR=3.3

IDC 03 09:50:14.8, 2.9, 53.66N, 86.93E, h0km, mbtmp2.6/2, ML2.1/1, Error ellipse: s-maj=28.0km s-min=16.2km az=70.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like I46RU, ZALV, ZALV, KURBB, MKAR, etc.

NEIC 03 09:50:54.0, 0.6, 48.27N, 110.02, 113.11W, 0.03, h5km, 1km, ML2.5/14, ML2.9/17(BUT), Error ellipse: s-maj=3.5km

BUT 03 09:50:54.0, 0.6, 48.28N, 110.03, 113.11W, 0.03, h3km, 2km, Error ellipse: s-maj=3.1km s-min=2.7km az=83.0, Montana

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like SLMT, HSPGA, etc.

NEIC 03 09:57:01.1, 1.0, 42.38N, 78.72E, h10km, mb2.3 SOME 03 09:57:01.4, 42.43N, 78.67E, h10km

NIC 03 09:57:03.5, 2.8, 42.54N, 78.65E, h0km, mb3.0, mpv2.6, Error ellipse: s-maj=21.7km s-min=8.4km az=141.0

IDC 03 09:57:00.9, 1.6, 42.42N, 0.05, 78.70E, 0.06, h12km, 9km, n12, #0872/3, 8C-2D, Lale Issyk-Kul region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like PRZ, TARG, etc.

SJA 03 10:07:53.6, 0.4, 36.44S, 72.58W, h40km, 14km, ML3.7, MW3.6

GUC 03 10:08:02.6, 0.8, 36.84S, 72.09W, h69km, 4km, ML3.7

ISC 03 10:08:02.5, 1.5, 36.82S, 0.04, 72.14W, 0.04, h71km, 14km, n15, #144/24, 1D, Near coast of Central Chile

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual. Includes stations like BI02, BI02, etc.



10.0nm,0.3s,baz=236,slow=29,SNR=18
TEY Ternei 5.11 64 eSg Sb 11 51 34.7 +5.8
KSRS Korea Array 5.79 197 Pn 11 50 24.0 0.0

IDC 03 12:07:01.5:1.9,37.38N:142.24E,h0km,mb3.5/3,
mbtmp3.5/6,ML3.1/3,Error ellipse: s-maj=35.2km
s-min=28.4km az=91.0

JMA 03 12:07:06.7:0.2,37.4N:0.4:141.9E:0.9,h35km,3km,
MW3.9/40,E OFF FUKUSHIMA PREF

ISC 03 12:07:04.7:0.3,37.44N:0.05:142.02E:0.07,h14km,22km,
n24,+125/28,mb3.5/3,4D,Off east coast of Honshu

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KAWAUCHI, JFYF, JMK, etc.

0.7nm,0.3s,baz=74,slow=14,SNR=5.6
3.6nm,0.3s

ASAJ Ashikawa 6.68 4 Pn 12 08 43.2 +0.8

KSRS Korea Array 11.21 274 Pn 12 09 47.5 +3.0

H11N2 WAKE ISLAND Hy 27.95 122 T 12 42 09.7

H11N1 WAKE ISLAND Hy 27.96 122 T 12 42 08.7

H11N3 WAKE ISLAND Hy 27.97 122 T 12 42 15.5

H11S1 WAKE ISLAND Hy 28.68 124 T 12 43 23.8

H11S3 WAKE ISLAND Hy 28.68 124 T 12 43 19.1

H11S2 WAKE ISLAND Hy 28.70 124 T 12 43 19.2

MKAR Makanchi Array 44.31 302 P 12 15 13.8 -0.4

KURBB Kurchatov Arr 46.13 308 P 12 15 28.0 -0.5

WRA Warramunga Arr 57.53 189 P 12 16 52.7 -1.1

NEIC 03 12:21:26.7:1.1,4.2N:0.2:123.1E:0.2,h563km,13km,
mb4.8/10,Error ellipse: s-maj=40.4km s-min=16.6km

IDC 03 12:21:27.1:2.8,4.39N:123.50E,h576km,31km,mb3.2/8,
mbtmp4.1/8,Error ellipse: s-maj=266.2km s-min=123km
az=64.0

ISC 03 12:21:25.3:0.7,4.3N:0.1:123.1E:0.2,h550km,n28,
n12/30,mb4.0/13,Celebes Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like TOL12, LUIW, etc.

WRR Warramunga Arr 26.56 155 P 12 26 19.3 -0.7

AS31 Alice Springs 29.71 160 P 12 26 47.3 -0.1

ASAR Alice Springs 29.71 160 P 12 26 47.4 -0.1

ASAR 0.7nm,0.8s,baz=342,slow=3.1,SNR=8.0
1.3nm,0.5s

BBOO Buckleboe 38.88 162 P 12 28 04.0 0.0

STKA Stephens Creek 40.04 155 P 12 28 13.1 -0.1

STKA Stephens Creek 40.04 155 P 12 28 13.5 +0.2

EVN Everest 41.78 308 P 12 28 27.8 -0.1

CAN Canberra 46.30 150 P 12 29 03.5 +1.5

MK31 Makanchi Array 55.08 327 P 12 30 06.5 +0.9

MKAR Makanchi Array 55.08 327 P 12 30 06.2 +0.6

MKAR Makanchi Array 55.08 327 P 12 30 06.6 +1.0

MKAR 0.7nm,0.6s,baz=127,slow=4.2,SNR=6.0
comp=Z,1.7nm,0.3s

ZALV Zalesovo Beam 58.50 335 P 12 30 29.7 +0.8

KURBB Kurchatov Arr 59.36 329 P 12 30 35.2 +0.5

KURK Kurchatov 59.36 329 P 12 30 35.3 +0.5

BVAR Borovoye Array 64.91 328 P 12 31 10.9 +0.2

FINES FINESS Array B 89.63 332 P 12 33 23.4 -1.1

NC405 NORSAR Array S 96.42 333 P 12 33 55.2 -0.3

NC303 NORSAR Array S 96.53 333 P 12 33 56.5 +0.5

NC204 NORSAR Array S 96.79 333 P 12 33 55.9 -1.4

IDC 03 12:39:12.8:12.0,5.77S:128.93E,h273km,140km,
mb2.9/2,mbtmp3.6/5,Error ellipse: s-maj=82.2km
s-min=46.8km az=42.0, Banda Sea

Code Station Name Az AzZ Phase ID Time Res

FITZ Fitzroy Crossi 12.67 194 P 12 42 04.4 +0.3

FITZ 1.5nm,0.3s,baz=220,slow=15,SNR=1.7
WRA Warramunga Arr 15.04 160 P 12 44 32.0 +0.2

ASAR Alice Springs 18.43 165 P 12 43 08.9 +0.2

MKAR Makanchi Array 66.62 327 P 12 49 34.2 0.0

KURBB Kurchatov Arr 70.92 329 P 12 50 00.5 0.0

0.2nm,0.4s
SNET 03 12:43:47.1:0.6,13.24N:89.42W,h52km,5km,ML3.0
CGC 03 12:43:47.6:0.3,13.43N:89.36W,h63km,34km,MD3.8,
ML3.3

CATAC 03 12:43:48.0:1.0,13.1N:7.8:9W:1.1,h24km,5km,M2.9/7,
MLV2.9/7,Error ellipse: s-maj=16.7km s-min=5.9km
az=30.0, confirmed

ISC 03 12:43:48.8:1.8,13.43N:0.1:89.33W:0.06,h66km,n25,
n24/3/31,El Salvador

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like LALI, JAYA, etc.

0.7nm,0.3s,baz=74,slow=14,SNR=5.6
3.6nm,0.3s

NEIC 03 12:46:39.6:0.8,35.26N:0.01:97.759W:0.009,h5km,2km,
Error ellipse: s-maj=2.0km s-min=0.5km az=150.0

NEIC 03 12:46:39.5:0.9,35.26N:0.01:97.75W:0.01,h5km,2km,
mb\_Lg2.4/7,ML2.1/34,ML2.2/10,Error ellipse:
s-maj=1.9km s-min=1.7km az=156.0,Oklahoma

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like BCOK, OK029, etc.

0.7nm,0.3s,baz=74,slow=14,SNR=5.6
3.6nm,0.3s

WMOK Wichita Mountain 0.99 239 P 12 46 57.6 -1.0

OK052 Battle Ridge R 1.07 46 P 12 46 59.3 -0.1

OK052 76nm,0.5s IAML 12 47 05.3

OK029 70nm,0.4s IAML 12 47 08.2

X34A Smith Ranch, M 0.66 186 P 12 46 52.8 +0.6

X34A 12 47 02.7 -0.3

X34A 12 47 03.3

WMOK Wichita Mountain 0.99 239 P 12 46 57.6 -1.0

OK052 Battle Ridge R 1.07 46 P 12 46 59.3 -0.1

OK052 76nm,0.5s IAML 12 47 05.3

DEOK Depew 1.18 60 P 12 47 01.9 -0.2

DEOK 12 47 17.4 0.0

DEOK 12 47 25.1

DEOK 12 47 27.5

QUOK Quay 1.25 43 P 12 47 02.7 -0.7

QUOK 12 47 19.9 0.0

QUOK Carrier 1.26 351 P 12 47 02.8 -0.8

CROK 12 47 20.2 -0.1

OK051 E0350 and S344 1.45 31 P 12 47 06.1 -0.4

OK038 West end E0370 1.46 327 P 12 47 06.2 -0.4

OK032 Grant County # 1.59 357 P 12 47 22.2 +0.1

NOKA Waynoka 1.67 325 P 12 47 09.6 +0.1

T35A Sooner Cattle 1.94 31 P 12 47 12.9 -0.2

FW03 Perrin-Whitt E 2.23 187 Iamb\_Lg 12 47 55.9

SN07 3.38 231 Iamb\_Lg 12 48 33.5

JCT Junction City 5.07 200 Iamb\_Lg 12 49 31.8

MLDN Muldoon 5.49 174 Iamb\_Lg 12 49 36.2

N41A Harden Midland 7.70 43 Iamb\_Lg 12 50 48.2

SJA 03 12:52:36.6:0.6,21.98S:68.64W,h135km,ML3.7,MW3.6
GIC 03 12:52:37.6:0.6,21.94S:68.69W,h138km,3km,ML3.2
ISC 03 12:52:37.4:0.4,21.98S:0.03:68.66W:0.04,h130km,9km,
n32,+154/58,7C,Chile-Bolivia border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like PB09, etc.

AF01 San Pedro de A 1.06 155 eP 12 53 01.5 +0.3

AF01 12 53 20.1 +0.8

AF01 12 53 20.0 +0.6

PB06 IPOC Station P 1.11 229f eP 12 53 02.2 +0.7

PB06 12 53 20.5 +0.7

PB06 12 53 21.7

PB06 IPOC Station P 1.11 229 eP 12 53 02.2 +0.7

PB06 12 53 21.1 +1.3

PB01 IPOC Station P 1.21 320f eP 12 53 02.2 -0.2

PB01 12 53 22.4 +0.9

PB01 12 53 23.0

PB01 12 53 02.2 -0.2

PB05 IPOC Station P 1.67 238f eP 12 53 08.1 +0.6

PB05 12 53 10.1 +0.5

PB05 12 53 36.2

PB05 IPOC Station P 1.67 238 eP 12 53 08.2 +0.6

PB05 12 53 31.5 +0.9

PB05 12 53 32.5

PX03 IPOC Station P 1.81 330 eP 12 53 08.4 -0.9

PX03 12 53 32.8 -0.7

PB08 IPOC Station P 1.89 346f eP 12 53 10.8 +0.4

PB08 12 53 35.4 -0.2

PB08 12 53 37.5

TA01 Diego Aracena 2.00 315 eP Pn 12 53 11.2 -0.1

TA01 12 53 36.6 -0.7

TA01 12 53 38.7

TA01 comp=E,897nm,0.2s

TA01 Diego Aracena 2.00 315 eP Pn 12 53 11.3 -0.1

TA01 12 53 38.2 +0.9

TA01 12 53 39.7

TA02 comp=Z,245nm,0.2s

TA02 Huaiquique 2.19 321 eP Pn 12 53 13.0 -0.6

TA02 12 53 40.4 -1.0

TA02 Huaiquique 2.19 321 eP Pn 12 53 13.1 -0.6

TA02 12 53 42.4 +0.9

TA02 12 53 45.8

comp=Z,2501nm,0.1s

PB10 IPOC Station P 2.32 229 eP Pn 12 53 15.9 +0.6

PB10 12 53 40.4 -1.0

PB10 IPOC Station P 2.32 229 eP Pn 12 53 16.2 +0.9

PB10 12 53 43.1 -1.3

GO01 Chusmiza 2.35 348 eP Pn 12 53 16.6 +0.3

GO01 12 53 46.0 -0.3

GO01 Chusmiza 2.35 348 eP Pn 12 53 16.7 +0.7

PB11 IPOC Station P 2.40 337f eP Pn 12 53 15.9 -0.5

PB11 12 53 45.5 -1.0

PB11 IPOC Station P 2.40 337 eP Pn 12 53 15.8 -0.7

PB11 12 53 46.8 +0.3

PB11 12 53 51.1

comp=Z,364nm,0.3s

YJA Yavi 2.92 94 eP Pn 12 53 24.5 +1.1

YJA 12 53 55.4 -3.5

PB14 IPOC Station P 3.08 211 eP Pn 12 53 26.5 +1.1

PB14 12 53 56.5 -5.9

PB14 IPOC Station P 3.08 211 eP Pn 12 53 26.7 -1.1

PB14 12 53 51.1 -1.1

SALTA 3.09 137 eP Pn 12 53 26.9 +1.2

SALTA 3.09 137 eP Pn 12 53 27.2 +1.5

GO02 Mina Guanaco 3.28 195 eP Pn 12 53 28.0 +0.1

GO02 12 53 56.0 -1.1

PB16 IPOC Station P 3.71 347 eP Pn 12 53 34.4 +0.4

PB16 12 54 20.2 +2.6

AZAP Zapla 3.99 125 eP Pn 12 53 37.6 +0.4

IDC 03 12:56:12.3:8.6,5.22S:150.44E,h71km,61km,mb3.7/2,
mbtmp4.1/3,ML2.1/1,Error ellipse: s-maj=19.7km
s-min=55.9km az=119.0, British region

Code Station Name Az AzZ Phase ID Time Res

PMG Port Moresby 5.28 218 P 12 57 28.7 -0.1

PMG 4.2nm,0.3s,baz=38,slow=5.9,SNR=1.3

PMG 12m,0.7s,baz=85,slow=22,SNR=6.6

WRA Warramunga Arr 21.44 226 P 13 00 54.8 -0.1

3.8nm,0.6s,baz=52,slow=10,SNR=4.3

ASAR Alice Springs 24.30 219 P 13 01 22.9 -0.4

1.9nm,0.5s,baz=52,slow=8.7,SNR=4.3

1.9nm,0.5s

TORD Torodi Arr, Bea 148.19 287 PKPbc PKPbc 13 15 51.1 -0.1

1.8nm,0.4s,baz=67,slow=2.4,SNR=2.5

NNC 03 13:11:56.0:0.7,49.96N:78.49E,h0km,mb2.8,mpv2.4,
Error ellipse: s-maj=17.2km s-min=3.2km az=85.0,
Suspected Mining explosion.

IDC 03 13:11:58.0:1.0,50.04N:78.70E,h0km,mbtmp2.4/2,
ML1.9/2,Error ellipse: s-maj=11.5km s-min=6.6km
az=64.0

ISC 03 13:11:57.9:1.9,50.00N:0.07:78.6E:0.2,h0km,n15,
n88/26,14C-8D, Eastern Kazakhstan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KUR07, etc.

KUR07 Kurchatov Arra 0.58 355 fP P 13 12 08.2 -0.9

KUR07 13 12 17.4 +0.8

KUR06 Kurchatov Arra 0.60 356 fP P 13 12 08.6 +0.8

KUR06 13 12 18.3 +1.1

KUR14 Kurchatov Arra 0.61 0 fP P 13 12 08.1 -1.5

KUR14 13 12 17.8 +0.2

KUR15 Kurchatov Arra 0.62 358 fP P 13 12 08.6 -1.1

KUR15 13 12 08.2 +0.5

KURBB Kurchatov Arra 0.62 357 fP P 13 12 09.0 -0.9

0.9nm,0.3s,baz=167,slow=18,SNR=5.7

KURBB 13 12 18.8

KURBB 1.1nm,0.3s,baz=170,slow=32,SNR=1.8

KURBB Kurchatov Arra 0.62 357 fP P 13 12 08.9 -0.9

7.9nm,0.3s

KURBB 13 12 18.5 +0.6

KUR16 Kurchatov Arra 0.63 355 fP P 13 12 09.0 -0.9







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Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Tiksi, Lookout Ridge, Tatalina, Korea Array, etc.

IDC 03 15:20:00.9-2.1, 22.715x112.43W, h0km, mb3.6/1, mbtmp3.6/1, Error ellipse: s-maj=133.0km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Juan Fernandez, Yellowknife Arr, Keskin Array B, etc.

NEIC 03 15:30:48.0-6.2, 2.96N:0.05x127.9E:0.1, h158km, 9km, mb4.3/10, Error ellipse: s-maj=18.7km s-min=7.1km

DJA 03 15:30:48.3-0.5, 3°N.3'x12°8E', h145km, 4km, M4.2/14, mB5.0/2, mb4.1/6, MLV4.2/14, Mw(mb)4.3/2

IDC 03 15:30:49.7-6.2, 2.91N:127.89E, h173km, 60km, mb3.4/7, mbtmp4.0/8, MS3.3/2, Error ellipse: s-maj=44.3km

ISC 03 15:30:47.2-0.6, 3.00N:0.07x127.97E:0.07, h150km, n36, -0.81/38, mb4.0/12, Northern Molucca Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Ternate, Sangihe, Cibinong, Sorong, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Stephens Creek, Petropavlovsk, Makanchi Array, etc.

SDD 03 16:03:14.0-1.4, 19.61N:70.53W, h23km, 9km, MD3.2, ML2.6, MW3.2

OSPL 03 16:03:16.5-2.0, 19.51N:70.63W, h0km, 18km, ML2.4

ISC 03 16:03:11.5-1.4, 19.51N:70.63W, h0km, 18km, ML2.4

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Santiago de lo, Loma La Naviza, Alto Bandera, etc.

IDC 03 16:17:11.2-1.3, 7.09N:72.17W, h0km, mb3.1/1, mbtmp3.5/4, ML2.7/3, Error ellipse: s-maj=48.4km

RSNC 03 16:17:11.4-1.4, 7.05N:72.08W:0.03, h3km, 10km, n30, 1.19/53, Northern Colombia

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Tame, Arauca, Pamplona, etc.

SDV 77m, 0.3s, baz=334, slow=14, SNR=19

SDV 10m, 0.3s, baz=183, slow=21, SNR=9.8

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Puerto Berrío, San Pablo de B, Zaragoza, etc.

33d 17h

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Alice Springs, Warramunga Arr, etc.

CATAC 03 17:10:14.7-0.6, 13°N.3'x8°9W', h26km, 4km, M3.6/15, MLV3.6/15, Error ellipse: s-maj=7.7km s-min=4.8km

SNET 03 17:10:16.9-0.9, 13.10N:89.45W, h55km, ML3.5, GCG 03 17:10:17.5-0.9, 13.09N:89.53W, h45km, 22km, MD3.8, ML3.5

ISC 03 17:10:14.8-1.8, 12.90N:0.07x89.45W:0.04, h29km, 12km, n59, -0.97/65, 7C-1D, Off coast of central America

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Alcalda de L, Alcalda de L, Alcalda de L, etc.

IDC 03 17:15:58.3-0.9, 36.83N:142.08E, h0km, mb3.8/14, mbtmp3.8/20, ML3.3/6, MS3.4/15, Error ellipse: s-maj=20.2km s-min=18.2km az=109.0

NIED 03 17:16:01.0, 36.76N:142.07E, h43km, MW4.1, Moment Tensor Solution, s3 Moment tensor: Scale 10^19N

JMA 03 17:16:01.0-0.3, 36.8N:0.8x142E', h43km, MV3.9/33, E OFF KUSHIMA PREF

NEIC 03 17:16:04.2-0.8, 37.06N:0.08x141.9E:0.1, h28km, 8km, mb4.3/10, Error ellipse: s-maj=15.0km s-min=10.5km

ISC 03 17:16:01.5-0.7, 36.91N:0.06x142.01E:0.06, h19km, n68, -0.152/58, mb4.1/23, MS3.5/10, 4D, Off east coast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Iwakimizuishiy, Kawachi, Fukushimafurud, etc.



Table with columns for station name, frequency, mode, and other technical details. Includes stations like Kellerberrin, Fitzroy Crossi, and various South Pole Qui stations.

Table with columns for station name, frequency, mode, and other technical details. Includes stations like Kokpek, KAPK, and various international stations like Kurchatov and Gindry.

Table with columns for station name, frequency, mode, and other technical details. Includes stations like CLL Collm, GERES GRESS, and various international stations like Fugatoga and Afti.

3a0 18h

Table with columns for station name, frequency, mode, and other parameters. Includes stations like SPA0 Spitsbergen Ar, SPITS Spitsbergen Ar, DAG Danmarks Havn, etc.

2019 JUN

Table with columns for station name, frequency, mode, and other parameters. Includes stations like ILOH HFS Hagfors, HFS Hagfors, HFS Hagfors, etc.

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Table with columns for station name, frequency, mode, and other parameters. Includes stations like XLT XLT, GTA Gaotai, TKL Tuckaleechee C, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like HDA, COLA, TTA, ILAR, PAX, SLKM, Q22K, J18K, H21K, RIDG, KLU, RED, L18K, J25K, N19K, SEW, DIV, FID, Q20K, SCRK, MENT, WAZA, WASW, ILS, PRP, O19K, L26K, K17K, H19K, EYAK, EYAK, EYAK, J26L, M17K, M17K, G21K, P19K, P19K, G23K, M26K, M26K, H17K, H25L, G22K, O18K, O18K, G24K, G24K, H18K, AUCH, N17K, N17K, I26K, K27K, K27K, K27K, MCARA, L27K, L27K, BCAR, COLD.

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like HMT, M27K, M27K, FYU, FYU, L16K, Q23K, Q23K, Q23K, P18K, F21K, F21K, M16K, M16K, Q19K, Q19K, KAIM, KAIM, KAIM, KAIM, TGL, TGL, F20K, F20K, F20K, H17K, H17K, SUCK, SUCK, SYI, SYI, F19K, G26K, G26K, G26K, GRNC, GRNC, CTGM, CTGM, O16K, O16K, BMAR, H27K, E24K, YAH, YAH, E19K, E19K, LOGN, LOGN, DAWY, DAWY, DAWY, I28M, I28M, I28M, N15K, N15K, N15K, ACHA, KDKA, KDKA, KDKA, ANCK, CNTC, E21K, G16K, F17K, TOLK, E20K, M14K, L14K, D22K, PCA, D23K, CHAK, CHAK, G15K, D20K, PLBL, D19K, C21K, E27K, O29M, PNL, D25K, K12K, F15K, N30M, G29M, I30M, SII, C27K, F14K, P30M, O30N, B22K, B20K, C17K, E23M, B18K, CHIR, TNA, A22K, IINK, BESE, SIT, SIT, SIT, O32M, DLBC, DLBC, YKA, YKA, RES, RES.

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like PETK, PETK, PETK, PDAR, PDAR, PDAR, NVAR, NVAR, P18A, P18A, P18A, SRU, SRU, SRU, LCMT, LCMT, KNB, KNB, KNB, PV10, PV10, TKY, TKY, SPITS, SPITS, SPB2, SPB2, DBG, DBG, NRIK, NRIK, TXAR, TXAR, TXAR, ARCES, ARCES, ARCES, KSR5, KSR5, KSR5, SONM, SONM, SONM, NOA, NOA, NOA, ZAAO, ZAAO, ZAAO, ZALV, ZALV, ZALV, FINES, FINES, FINES, HFS, HFS, HFS, ARTI, ARTI, BRVK, BRVK, BRVK, BVAR, BVAR, BVAR, KURK, KURK, KURK, KURBB, KURBB, KURBB, KURBB, MKAR, MKAR, MKAR, MKAR, MAKZ, MAKZ, MAKZ, GTA, GTA, GTA, AB31, AB31, AB31, AB31, ABKAR, ABKAR, ABKAR, ABKAR, AKASG, AKASG, AKASG, AKBB, AKBB, AKBB, KIEV, KIEV, KIEV, KKAR, KKAR, KKAR, KSH, KSH, KSH, KIV, KIV, KBZ, KBZ, SIMJ, SIMJ, SIMJ, CMAR, CMAR, CMAR, KAPI, KAPI, KAPI, BOSA, BOSA, BOSA, IDC 03 18:09:04.3z, IDC 03 18:09:06.5z, Code Station Name, CMAR, CMAR, SONM, MKAR, KSR5, KURBB, YAK, WRA, SHEM, ASAR, AFAD, ISK, MCSM, SOF, LIT.





TTIG	Trine Tigouga,	5.13	166	P	Pn	18 17 08.3	-2.5
MDT	Midelt	5.17	120	P	Pn	18 17 12.4	+1.2
MDT	Midelt	5.17	120	S	Pn	18 18 08.0	-1.7
MTE	Manteigas	5.20	20	eP	Sn	18 17 13.3	+1.6
MTE				i/AML	AML	18 18 08.6	-1.8
MTE				i/AML	AML	18 18 12.8	
MTE				i/AML	AML	18 18 13.6	
OUMZ	Ouz	5.32	149	P	Pn	18 17 13.4	0.0
OUMZ	Ouz	5.32	149	S	Pn	18 17 11.1	-2.3
PVIS	Viseu	5.41	16	eP	Sn	18 17 15.6	-2.4
PVIS				eS	Sn	18 17 17.3	-2.4
EPLA	Plasencia	5.44	33	Pn	Pn	18 17 17.0	+2.0
EPLA				Sn	Pn	18 18 13.3	-3.1
EQTA	Presas de Quent	5.48	70	Sn	Pn	18 18 14.5	-2.8
EQTA	Quental	5.48	70	Pn	Pn	18 17 17.9	+4.2
EQUJ		5.63	10	Pn	Pn	18 18 14.8	-2.6
GOLM	Goulmima	5.63	131	P	Pn	18 17 17.3	-0.4
GOLM	Goulmima	5.63	131	S	Pn	18 18 20.5	-0.7
GOG	Mont Gurugu	5.66	91	P	Pn	18 17 17.4	-0.6
GOG	Mont Gurugu	5.66	91	S	Pn	18 18 17.9	-3.9
E0803	Jimena (Jaen)	5.66	64	Pn	Pn	18 17 20.5	+2.6
E0803				Sn	Pn	18 18 18.8	-3.0
PTO	Porto	5.69	10	eP	Sn	18 17 17.2	-1.0
PTO				eS	Sn	18 18 17.0	-5.3
WMELI	Mellila	5.69	90	Sn	Pn	18 18 19.1	-3.2
PSIM	Granatula de C	5.91	54	Pn	Pn	18 17 23.9	+2.5
PSIM				Sn	Pn	18 18 24.7	-3.1
E0ES	Quesada	5.95	66	Pn	Pn	18 17 24.5	+2.6
E0ES				Sn	Pn	18 18 27.2	-1.7
E0ES				i/Vmb_Lg		18 18 33.0	
PAB	San Pablo	5.96	46	Pn	Pn	18 17 24.1	+2.0
PAB				Sn	Pn	18 18 26.4	-2.8
E0B3				i/Vmb_Lg		18 17 27.3	-1.1
TZRR	Tazzarine	5.98	141	P	Pn	18 17 21.3	-1.1
TZRR	Tazzarine	5.98	141	S	Pn	18 18 27.5	-2.1
PVRL	Vila Real	5.98	16	eP	Sn	18 17 23.6	+1.2
PVRL				eS	Sn	18 18 26.6	-3.0
PVRL				i/AML	AML	18 18 30.2	
PVRL				i/AML	AML	18 18 30.7	
PVRL				i/AML	AML	18 18 31.2	
MVO	Moncorvo	6.06	21	eP	Pn	18 17 24.7	+1.3
MVO				eS	Pn	18 18 28.9	-2.7
MVO				i/AML	AML	18 18 31.9	
MVO				i/AML	AML	18 18 32.4	
MVO				i/AML	AML	18 18 33.5	
POLO	Lamas de Olo	6.06	15	eP	Pn	18 17 24.4	+0.9
POLO				eS	Pn	18 18 27.9	-3.7
POLO				i/AML	AML	18 18 31.2	
POLO				i/AML	AML	18 18 32.1	
POLO				i/AML	AML	18 18 33.4	
JBK	JBK	6.15	99	S	Pn	18 17 24.5	-0.4
JBK	JBK	6.15	99	S	Pn	18 18 29.3	-4.8
TAF	Taforal	6.18	95	P	Pn	18 17 25.2	0.0
TAF	Taforal	6.18	95	S	Pn	18 18 33.0	-1.7
ESDC	Seneca Array	6.27	47	Pn	Pn	18 17 28.2	+1.9
ESDC				i/Vmb_Lg		18 17 29.5	
ESDC				Sn	Pn	18 18 33.6	-3.2
ARF	Arif	6.27	129	P	Pn	18 17 25.4	-1.0
ARF	Arif	6.27	129	S	Pn	18 18 35.9	-1.0
ESBB	Seneca Array	6.27	47	Pn	Pn	18 17 28.3	+1.9
ESBB				i/Vmb_Lg		18 17 29.5	
ESBB				Sn	Pn	18 18 33.7	-3.7
PCAB	Cabril	6.34	13	eP	Pn	18 17 28.4	+1.2
PCAB				eS	Pn	18 18 34.8	-3.6
PCAB				i/AML	AML	18 18 38.5	
PCAB				i/AML	AML	18 18 39.4	
PCAB				i/AML	AML	18 18 39.5	
ENIJ	Nijar	6.39	75	Sn	Pn	18 18 37.6	-2.0
ENIJ	Nijar	6.39	75	Sn	Pn	18 18 37.1	-2.6
PMAR	Madeira Lobios	6.45	246	P	Pn	18 17 27.4	-1.5
ELOB		6.48	12	Pn	Pn	18 17 30.1	+0.8
ELOB				Sn	Pn	18 18 37.2	-4.9
ZGR	Zagora	6.50	145	P	Pn	18 17 29.4	-0.1
ZGR	Zagora	6.50	145	S	Pn	18 18 42.1	-0.4
PGAV	Gavieira, Arco	6.55	11	eP	Pn	18 17 31.4	+1.2
PGAV				eS	Pn	18 18 40.0	-3.6
PGAV				i/AML	AML	18 18 43.9	
PGAV				i/AML	AML	18 18 44.1	
PGAV				i/AML	AML	18 18 45.0	
PMOZ	Porto Moniz, M	6.62	248	Pn	Pn	18 17 31.6	+0.5
PMOZ				Sn	Pn	18 18 38.3	-7.1
PMOZ	Porto Moniz, M	6.62	248	P	Pn	18 17 28.6	-2.6
PMOZ	Porto Moniz, M	6.62	248	S	Pn	18 18 31.6	-3.6
EZAM	Zamans	6.67	8	Pn	Pn	18 17 32.7	+0.9
EZAM				Sn	Pn	18 18 43.3	-3.2
EZAM				i/Vmb_Lg		18 18 46.4	
PBRG	Braganca	6.73	21	eP	Pn	18 17 34.5	+1.9
PBRG				eS	Pn	18 18 44.5	-3.6
PBRG				i/AML	AML	18 18 49.2	
PBRG				i/AML	AML	18 18 49.2	
PBRG				i/AML	AML	18 18 49.3	
GUD	Guadarrama	6.83	40	Pn	Pn	18 17 35.6	+1.6
GUD				Sn	Pn	18 18 47.0	-3.6
ECAL	Catalor	6.86	20	Pn	Pn	18 17 35.6	+1.2
ECAL	Catalor	6.86	20	Pn	Pn	18 18 47.5	-3.8
ECAL				Pg	Pn	18 17 45.1	
ECAL				Sn	Pn	18 18 48.9	-2.3
ECAL				i/Vmb_Lg		18 18 52.6	
EZAR	Zarzadilla de	7.00	68	Pn	Pn	18 17 39.0	+2.5
EZAR				Sn	Pn	18 18 51.5	-3.4
EZAR				i/Vmb_Lg		18 18 56.4	
EFAM	Famara	7.08	207	Sn	Pn	18 18 50.4	-6.4
UCM	Universidad Co	7.10	46	Pn	Pn	18 17 40.3	+2.6
EAGO	Agolada(Pontev	7.39	10	Pn	Pn	18 17 42.6	+0.9
EAGO				Sn	Pn	18 18 59.9	-4.4
EAGO				i/Vmb_Lg		18 19 04.1	
EMAZ	Mazaricos	7.44	5	Pn	Pn	18 17 42.1	-0.2
EMAZ				Sn	Pn	18 18 58.3	-6.6
CART	Cartagena	7.46	71	Pn	Pn	18 17 44.2	+1.7
CART				Sn	Pn	18 19 00.8	-5.1
CART	Cartagena	7.46	71	P	Pn	18 17 41.5	-1.0
CART	Cartagena	7.46	71	S	Pn	18 19 02.1	-3.7
EVUE	Fuenteventura	7.67	208	Sn	Pn	18 19 04.3	-7.0
EVUE	Cofrentes, Val	7.93	59	Sn	Pn	18 19 13.2	-4.2
EVUE				i/Vmb_Lg		18 19 21.1	
CVTV	Fuenteventura	7.94	208	Pn	Pn	18 17 46.0	-3.3
CVTV				Sn	Pn	18 19 10.8	-7.0
FIGM	Figui	7.96	113	P	Pn	18 17 47.6	-2.8
EPON	Pontenova	8.07	15	Pn	Pn	18 17 52.0	+1.0
EPON				Sn	Pn	18 19 17.5	-3.4
EPON				i/Vmb_Lg		18 19 20.7	
CGIN	Ginginamar, F	8.12	207	Sn	Pn	18 19 14.8	-7.5
ETOR	Torete	8.13	47	Pn	Pn	18 17 54.4	+2.5
ETOR				Sn	Pn	18 19 18.7	-3.8
ETOR				i/Vmb_Lg		18 19 24.3	
ECHC	Chera	8.17	58	Pn	Pn	18 17 55.0	+2.6
ECHC				Sn	Pn	18 19 20.9	-2.7
ECHC	Chera	8.17	58	Pn	Pn	18 17 54.8	+2.3
ECHC				Sn	Pn	18 19 20.5	-3.1
E0901	Beniadas presa	8.37	65	Sn	Pn	18 19 23.3	-4.8
E0901	Celadas (Terue	8.51	52	Pn	Pn	18 18 00.9	+3.8
E0901				Sn	Pn	18 19 28.6	-3.3
EARI	Arriadas	8.56	24	Pn	Pn	18 18 01.0	+3.2
EARI				Sn	Pn	18 19 28.1	-5.0
EMOS	Mosqueruela	8.88	54	Pn	Pn	18 18 05.9	+3.7
EMOS				Sn	Pn	18 19 36.5	-5.0
EMOS				i/Vmb_Lg		18 19 43.3	
CLUM	San Bartolome	9.12	214	Sn	Pn	18 19 38.7	-8.1
ELAN	Lanestosa	9.17	31	Pn	Pn	18 18 08.7	+2.5
ELAN				Sn	Pn	18 19 42.2	-5.8
CNOR	Icod de los Vi	9.20	220	Sn	Pn	18 19 42.6	-2.8
CCHO	La Ortavia (Te	9.28	220	Sn	Pn	18 19 41.0	-1.0
CMIR	El Paso, La Pa	9.59	227	Sn	Pn	18 19 45.2	-1.3
EGOM	La Gomera	9.62	222	Sn	Pn	18 19 48.7	-1.0
ESAC	San Caprasio	9.62	47	Pn	Pn	18 18 13.5	+1.1
ESAC				Sn	Pn	18 19 43.0	-1.6
TBT	Tabariente	9.63	227	Sn	Pn	18 19 43.0	-1.6
CVIE	Villa de Mazo,	9.64	226	Sn	Pn	18 19 45.9	-1.0
ERTA	Horta de San J	9.70	53	Pn	Pn	18 18 17.0	+3.6
ERTA				Sn	Pn	18 19 55.9	-5.3
EALK	Alkurruntz	10.05	38	Pn	Pn	18 18 20.1	+1.8
EALK				Sn	Pn	18 20 04.3	-5.5
EPOB	Poblet	10.39	53	Pn	Pn	18 18 25.2	+2.4

EPOB				Sn	Pn	18 20 12.8	-5.2
ECHI	Chisagues Biel	10.59	45	Pn	Pn	18 18 28.7	+3.0
ECHI				Sn	Pn	18 20 17.2	-5.9
<p>ICD 03 18:25:09.8;2.7;33.61N;140.13E,h140km;28km,mb2.9/4,  mbmp3.3/6,MS3.0/1, Error ellipse: s-maj=51.3km  s-min=25.0km az=66.0</p> <p>JMA 03 18:25:10.7;0.2;33.6N;0.4;139.8E;0.9,h115km;1km,  MV2.6/28,NEAR MIYAKE/JIMA ISLAND  ISC 03 18:25:09.4;1.0;33.51N;0.06;139.8E;0.1,h123km,n23,  c106/22,mb3.2/4,Southeast of Honshu</p>							
Code	Station Name	Δ° AZ°	Phase ID	Op	ISC	Time Res	ISC
JHJ2	Mitsuru	0.40	172	P	Pn	18 25 28.0	+0.9
JMKM	Mikurajimianish	0.41	340	i/S	Pn	18 25 27.1	-0.1
JHJ1	Hachiojimakas	0.44	175	eP	Pn	18 25 28.4	+1.0
JHJ2				eS	Pn	18 25 41.9	+1.0
JMYK	Miyake Tsubota	0.57	343	P	Pn	18 25 28.3	+0.2
KOZ	Kozu shima	0.95	323	eP	Pn	18 25 30.6	+0.3
JSKK	Shikinejimakit	0.84	331	eP	Pn	18 25 31.5	+0.4
JIM2	Oshima 2	1.23	343	eP	Pn	18 25 34.3	+0.1
JIZS	Izushimoda	1.41	329	eP	Pn	18 25 36.5	+0.5
JIZS				eS	Pn	18 25 56.4	+0.2
BSO3	Boso 3	1.43	26	P	Pn	18 25 36.5	+0.5
BSO1	Boso 1	1.53	41	eP	Pn	18 25 37.3	+0.5
KTJ3	Kamata3	1.53	338	eP	Pn	18 25 37.5	+0.1
BSO4	Boso 4	1.55	18	P	Pn	18 25 38.3	+0.8
JOD2	Odawara 2	1.83	343	P	Pn	18 25 41.5	+0.5
MJAR	Matsushiro Arr	3.28	338	P	Pn	18 26 01.3	+1.8
MJAR				0.8nm,0.4s,baz=157,slow=16,SNR=7.9			
MJAR				S	Pn	18 26 40.3	+2.1
ASAJ	Asahikawa	10.82	11	P	Pn	18 27 38.1	-2.7
ASAJ				2.1nm,0.5s,baz=164,slow=14,SNR=5.0			
JOW	Knigami	11.95	239	LR	LR	18 32	15.7
H1N2	WAKE ISLAND Hy 27.78	113	T	T		18 59	53.5
H1N1	WAKE ISLAND Hy 27.78	113	T	T		18 59	53.9
H1N3	WAKE ISLAND Hy 27.79	113	T	T		18 59	55.5
MKAR	Makanchi Array	44.93	305	P	P	18 33	12.4 +0.5
MKAR							

Table with columns for station name, coordinates, and other parameters. Includes stations like Angra Heroismo, Serra do Cume, Aguialva, Azore, Serra de Santa, Mosteiros, Sete Cidades, Ribeirinha, Manadas, Prainha do Nor, Cha da Macela, Caldeiras da R, Rosais, and Serra Branca.

Table with columns for station name, coordinates, and other parameters. Includes stations like SRBC, PGRON, PICO, BART, HORTA, PFCBR, CALA, PCED, MDT, DAVOX, VAE, NOA, HFS, AKASG, ARCES, BRTR, H10N2, and H10N3.

Table with columns for station name, coordinates, and other parameters. Includes stations like H10N1, H10S3, H10S2, BELG, TXAR, KURBB, ZALV, AAK, MKAR, WRA, ASAR, MKAR, YLYR, KMO, UKT, YOAB, NIZB, SVKR, SYVR, OGRR, and GORB.





MT02	Curacav	1.28 151	eP	Pg	21 31 31.6 +1.3
MT02	Curacav	1.28 151	eS	Pn	21 31 47.5 -0.3
MT02	Curacav	1.28 151	eP	Sb	21 31 31.6 +1.3
MT02	comp=Z,324nm,0.3s		IAML		21 31 50.2
VA03	San Esteban	1.28 119j	eP	Pb	21 31 31.2 +0.8
VA03	San Esteban	1.28 119j	eS	Sb	21 31 47.2 0.0
VA03	comp=E,2um,0.2s		IAML		21 31 50.0
VA03	San Esteban	1.28 119	eP	Pb	21 31 31.2 +0.8
VA03	San Esteban	1.28 119	eS	Sb	21 31 51.0
PEL	Peldehue	1.42 135	eP	Pg	21 31 33.4 +0.4
PEL	Peldehue	1.42 135	eS	Sg	21 31 51.5 0.0
PEL	comp=N,628nm,0.3s		IAML		21 31 55.8
PEL	Peldehue	1.42 135	eP	Pg	21 31 33.7 +0.7
CO06	Frue Jorge	1.47 38	eP	Pg	21 31 34.1 +0.1
CO06	Frue Jorge	1.47 38	eS	Sg	21 31 58.6
VA05	Santo Domingo	1.53 172	eP	Pg	21 31 35.6 +0.5
VA05	Santo Domingo	1.53 172	eS	Sg	21 31 56.3 +1.3
VA05	comp=E,1um,0.3s		IAML		21 32 04.5
MT05	Renca	1.58 143	eP	Pg	21 31 36.4 +0.4
MT05	Renca	1.58 143	eS	Sg	21 31 59.3
MT05	comp=E,1um,0.2s		IAML		21 31 59.3
MT05	Renca	1.58 143	eP	Pg	21 31 36.5 +0.4
MT05	Renca	1.58 143	eS	Sg	21 31 59.1
MT10	Hacienda Santa	1.60 135f	eP	Pg	21 31 36.5 +0.1
MT10	Hacienda Santa	1.60 135f	eS	Sg	21 31 56.5 +0.1
CO03	El Pedregal	1.65 38	eP	Pg	21 31 37.5 +0.2
CO03	El Pedregal	1.65 38	eS	Sg	21 31 57.9 +0.3
CO03	comp=E,626nm,0.1s		IAML		21 32 00.0
CO03	El Pedregal	1.65 38	eP	Pg	21 31 37.7 +0.4
CO03	El Pedregal	1.65 38	eS	Sg	21 31 58.0 -0.6
CO03	comp=Z,412nm,0.5s		IAML		21 32 01.9
MT14	Cerro Caljn	1.69 138f	eP	Pg	21 31 38.0 -0.1
MT14	Cerro Caljn	1.69 138f	eS	Sg	21 31 59.4 +0.5
MT14	comp=N,706nm,0.3s		IAML		21 32 05.1
MT16	CCHEN	1.72 139f	eP	Pg	21 31 38.5 -0.3
MT16	CCHEN	1.72 139f	eS	Sg	21 31 59.9 +0.2
MT16	comp=N,706nm,0.3s		IAML		21 32 08.8
MT03	Universidad Ad	1.78 140f	eP	Pb	21 31 39.2 +0.4
MT03	Universidad Ad	1.78 140f	eS	Sb	21 32 02.1 -0.8
MT03	comp=N,262nm,0.4s		IAML		21 32 03.2
MT03	Universidad Ad	1.78 140	eP	Pg	21 31 39.6 -0.2
MT03	Universidad Ad	1.78 140	eS	Sg	21 32 07.4
FCH	Farellones	1.79 132f	eP	Pg	21 31 39.3 +0.2
FCH	Farellones	1.79 132f	eS	Sg	21 32 02.6 -0.7
FCH	comp=E,640nm,0.3s		IAML		21 32 04.9
MT09	Talagante	1.80 156f	eP	Pg	21 31 39.9 -0.3
MT09	Talagante	1.80 156f	eS	Sg	21 32 03.4 -0.2
MT09	comp=N,613nm,0.4s		IAML		21 32 12.4
MT01	Popeta	1.80 163f	eP	Pb	21 31 39.3 +0.1
MT01	Popeta	1.80 163f	eS	Sb	21 32 02.7 +0.7
MT01	comp=E,294nm,0.2s		IAML		21 32 04.6
MT01	Popeta	1.80 163	eP	Pb	21 31 39.2 +0.1
MT01	Popeta	1.80 163	eS	Sb	21 32 08.4
MT15	Las Vizcachas	1.86 142	eP	Pb	21 31 40.6 +0.4
MT15	Las Vizcachas	1.86 142	eS	Sb	21 32 04.1 +0.3
MT15	comp=N,739nm,0.2s		IAML		21 32 12.2
MT15	Ro Olivares	1.94 131f	eP	Pb	21 31 41.7 +0.1
MT15	Ro Olivares	1.94 131f	eS	Sb	21 32 06.0 -0.1
MT15	comp=N,739nm,0.2s		IAML		21 32 07.8
MT04	Ro Olivares	1.94 131	eP	Pb	21 31 41.9 +0.3
MT04	Ro Olivares	1.94 131	eS	Sb	21 32 07.6 -0.4
MT04	comp=Z,134nm,0.1s		IAML		21 32 13.0
MT12	Pirque	1.94 145f	eP	Pb	21 31 41.7 0.0
MT12	Pirque	1.94 145f	eS	Sb	21 32 06.8 +0.6
MT12	comp=N,672nm,0.3s		IAML		21 32 12.1
MT08	Bocatoma Ro	2.04 130f	eP	Pb	21 31 43.5 +0.2
MT08	Bocatoma Ro	2.04 130f	eS	Sb	21 32 09.5 +0.4
MT08	comp=E,188nm,0.7s		IAML		21 32 17.0
MT08	Bocatoma Ro	2.04 130	eP	Pb	21 31 43.8 +0.4
MT08	Bocatoma Ro	2.04 130	eS	Sb	21 32 11.2 -0.1
MT08	comp=Z,105nm,0.5s		IAML		21 32 16.5
MT13	San Alfonso	2.09 141j	eP	Pb	21 31 44.1 -0.1
MT13	San Alfonso	2.09 141j	eS	Sb	21 32 09.8 -0.5
MT13	comp=Z,86nm,0.3s		IAML		21 32 11.7
MT13	San Alfonso	2.09 141	eP	Pb	21 31 44.4 +0.2
MT13	San Alfonso	2.09 141	eS	Sb	21 32 04.7 -3.1
MT13	comp=Z,228nm,0.3s		IAML		21 32 12.5
BO04	La Punta	2.13 150f	eP	Pb	21 31 44.5 -0.3
BO04	La Punta	2.13 150f	eS	Sb	21 32 11.8 +0.2
BO04	comp=E,302nm,0.5s		IAML		21 32 17.8
GO04	Tololo Observa	2.17 26	eP	Pb	21 31 44.5 -1.1
GO04	Tololo Observa	2.17 26	eS	Sb	21 32 13.3 +0.6
GO04	Tololo Observa	2.17 26	eP	Pb	21 31 44.6 -0.9
GO04	Tololo Observa	2.17 26	eS	Sb	21 32 09.7 -0.7
LMEL	Las Melosas	2.21 141f	eP	Pb	21 31 45.8 -0.5
LMEL	Las Melosas	2.21 141f	eS	Sb	21 32 13.5 -0.5
LMEL	comp=N,449nm,0.1s		IAML		21 32 21.4
LMEL	Las Melosas	2.21 141	eP	Pb	21 31 45.9 -0.3
LMEL	Las Melosas	2.21 141	eS	Sb	21 32 15.0 +1.0
RTLS	Leonicito	2.22 82	eP	Pg	21 31 47.8 -0.5
RTLS	Leonicito	2.22 82	eS	Sg	21 32 20.3
BO01	Tunca	2.34 164	eP	Pb	21 31 46.9 -1.6
BO01	Tunca	2.34 164	eS	Sb	21 32 16.1 -1.5
BO01	comp=N,98nm,0.4s		IAML		21 32 29.0
BO01	Tunca	2.34 164	eP	Pb	21 31 46.8 -1.6
BO01	Tunca	2.34 164	eS	Sb	21 32 13.5 -0.5
BO01	comp=Z,125nm,0.3s		IAML		21 32 27.0
ARCO	CERRO ARCO	2.59 107	eP	Pg	21 31 54.1 -1.2
ARCO	CERRO ARCO	2.59 107	eS	Sg	21 31 54.3 +1.7
ARCO	CERRO ARCO	2.59 107	eP	Pg	21 32 22.5 -2.3
ARCO	CERRO ARCO	2.59 107	eS	Sg	21 32 34.3
CO01	Juntas del Tor	2.64 36	eP	Pb	21 31 52.2 -1.4
CO01	Juntas del Tor	2.64 36	eS	Sb	21 32 21.8 +0.1
CO01	comp=Z,193nm,0.2s		IAML		21 32 29.4
DOCA	Reserva Natura	2.66 64	eP	Pb	21 31 54.3 +0.2
DOCA	Reserva Natura	2.66 64	eS	Sb	21 32 30.8
AAGR	Agredo	2.74 111	eP	Pb	21 31 56.3 +1.0
AAGR	Agredo	2.74 111	eS	Sb	21 32 34.6 +0.7
ZON	Zonda	2.79 79	eP	Pg	21 31 56.1 +0.1
ZON	Zonda	2.79 79	eS	Sg	21 32 32.5 +2.1
ZON	comp=Z,45nm,0.8s		IAML		21 32 45.0
BO02	Sierra Bellavi	2.80 161	eP	Pb	21 31 53.8 -2.5
BO02	Sierra Bellavi	2.80 161	eS	Sb	21 32 28.1 -2.8
BO02	Sierra Bellavi	2.80 161	eP	Pb	21 31 53.8 -2.5
BO02	Sierra Bellavi	2.80 161	eS	Sb	21 32 30.6 -0.3
BO02	comp=Z,174nm,0.3s		IAML		21 32 40.7
AROD	Rodero	2.85 47	eP	Pb	21 31 56.6 -0.6
AROD	Rodero	2.85 47	eS	Sb	21 32 30.2 -2.2
ACCO	Cerro Coronel	2.86 58	eP	Pg	21 32 01.6 +1.0
ACCO	Cerro Coronel	2.86 58	eS	Sg	21 32 36.2 -1.4
RTLL	Cerro Villucun	3.01 75	eP	Pb	21 31 58.2 -1.6
RTLL	Cerro Villucun	3.01 75	eS	Sb	21 32 34.8 -2.0
ACDV	Cuesta del Vie	3.02 51	eP	Pb	21 32 01.0 +0.1
ACDV	Cuesta del Vie	3.02 51	eS	Sb	21 32 37.6 -1.1
ACDV	comp=Z,44nm,0.4s		IAML		21 32 44.1
CFA	Coronel Fontan	3.14 81	eP	Pb	21 32 00.1 -1.9

CFA	Las Campanas	3.28 18	eS	Sg	21 32 47.5 +0.8
LCO	Las Campanas	3.28 18	eS	Sn	21 32 39.7 +2.3
AC05	El Transitto	3.57 23	eS	Sn	21 32 46.7 +2.3
UPP	03 22:10:17.6±0.1, 67.19N±0.65E, h0km, ML3.2, Unknown				
UPP	03 22:10:17.1±0.7, 67.16N±0.92E, h0km, mb3.5/1,				
UPP	mbmp3.3/7, ML2.9/6, Error ellipse: s-maj=12.7km				
UPP	s-min=6.0km az=11.0				
DNK	03 22:10:17.1±0.5, 67.18N±0.65E, h0km, ML3.2(UPP),				
DNK	Explosion				
HEL	03 22:10:17.4±0.0, 67.18N±0.65E, h1km, ML2.7,				
HEL	ML3.2(UPP), Confirmed Induced event				
ISC	03 22:10:15.1±0.6, 67.19N±0.02±0.20, 77E±0.02, h0km, n48,				
ISC	±1506/80, Sweden				
Code	Station Name	Δ° AZ°	Phase ID	Time	Res
DUNU	Dundret	0.10 231	Op	h m s	ISC
DUNU	Dundret	0.10 231	P	22 10 18.4 +1.4	S
DUNU	Dundret	0.10 231	S	22 10 19.5 +1.2	S
DUNU	Dundret	0.10 231	P	22 10 18.4 +1.4	S
DUNU	Dundret	0.10 231	S	22 10 19.5 +1.2	S
DUNU	Dundret	0.10 231	P	22 10 18.4 +1.4	S
DUNU	Dundret	0.10 231	S	22 10 19.5 +1.2	S
MASU	Masugnsbyn	0.55 60	P	22 10 42.5 +0.5	S
MASU	Masugnsbyn	0.55 60	S	22 10 36.3 +0.2	S
MASU	Masugnsbyn	0.55 60	P	22 10 28.1 +0.5	S
MASU	Masugnsbyn	0.55 60	S	22 10 36.3 +0.2	S
MASU	Masugnsbyn	0.55 60	P	22 10 28.1 +0.5	S
MASU	Masugnsbyn	0.55 60	S	22 10 36.3 +0.2	S
RATU	Laukkulupsa	0.79 325	P	22 10 30.9 +0.8	S
RATU	Laukkulupsa	0.79 325	S	22 10 40.9 +0.6	S
RATU	Laukkulupsa	0.79 325	P	22 10 30.9 +0.8	S
RATU	Laukkulupsa	0.79 325	S	22 10 40.9 +0.6	S
RATU	Laukkulupsa	0.79 325	P	22 10 30.9 +0.8	S
RATU	Laukkulupsa	0.79 325	S	22 10 40.9 +0.6	S
ERTU	Ertsjaerv	0.85 138	P	22 10 32.9 +0.2	S
ERTU	Ertsjaerv	0.85 138	S	22 10 46.6 +0.1	S
ERTU	Ertsjaerv	0.85 138	P	22 10 32.9 +0.2	S
ERTU	Ertsjaerv	0.85 138	S	22 10 46.6 +0.1	S
ERTU	Ertsjaerv	0.85 138	P	22 10 32.9 +0.2	S
ERTU	Ertsjaerv	0.85 138	S	22 10 46.6 +0.1	S
SALU	Saitoluokta	0.90 284	P	22 10 32.7 +0.4	S
SALU	Saitoluokta	0.90 284	S	22 10 44.2 +0.3	S
SALU	Saitoluokta	0.90 284	P	22 10 32.7 +0.4	S
SALU	Saitoluokta	0.90 284	S	22 10 44.2 +0.3	S
SALU	Saitoluokta	0.90 284	P	22 10 32.7 +0.4	S
SALU	Saitoluokta	0.90 284	S	22 10 44.2 +0.3	S
SALU	Saitoluokta	0.90 284	P	22 10 32.7 +0.4	S
SALU	Saitoluokta	0.90 284	S	22 10 44.2 +0.3	S
PAJU	Pajala	0.93 99	P	22 10 34.8 +0.6	S
PAJU	Pajala	0.93 99	S	22 10 48.1 +1.1	S
PAJU	Pajala	0.93 99	P	22 10 34.8 +0.6	S
PAJU	Pajala	0.93 99	S	22 10 48.1 +1.1	S
PAJU	Pajala	0.93 99	P	22 10 34.8 +0.6	S
PAJU	Pajala	0.93 99	S	22 10 48.1 +1.1	S
HARU	Harads	1.03 175	P	22 10 46.9 -0.1	S
HARU	Harads	1.03 175	S	22 10 35.6 -0.1	S
HARU	Harads	1.03 175	P	22 10 46.9 -0.1	S
HARU	Harads	1.03 175	S	22 10 35.6 -0.1	S
HARU	Harads	1.03 175	P	22 10 46.9 -0.1	S
HARU	Harads	1.03 175	S	22 10 35.6 -0.1	S
KOVU	Salmi	1.07 348	P	22 10 50.9 -0.1	S
KOVU	Salmi	1.07 348	S	22 10 36.2 +0.6	S
KOVU	Salmi	1.07 348	P	22 10 50.9 -0.1	S
KOVU	Salmi	1.07 348	S	22 10 36.2 +0.6	S
KOVU	Salmi	1.07 348	P	22 10 50.9 -0.1	S
KOVU	Salmi	1.07 348	S	22 10 36.2 +0.6	S
KLF	Kolari	1.25 86	eP	Pn	22 10 40.4 +0.7
KLF	Kolari	1.25 86	eS	Sn	22 10 56.4 +0.4
HEF	Hetta	1.65 40	eP	Pg	22 10 47.1 +0.4
HEF	Hetta	1.65 40	eS	Sg	22 10 46.9 +0.3
HEF	Hetta	1.65 40	eP	Pg	22

3d 23h

Table of astronomical observations for 3d 23h, listing station names, coordinates, and observation details.

2019 JUN

Main table of astronomical observations for 2019 JUN, including station names, coordinates, and observation details.

206

Table of astronomical observations for 206, listing station names, coordinates, and observation details.





3D 23h

Table with columns: ID, Name, Time, Date, Status, Location, etc. Includes entries like Etivluk River, Avaraart Lake, Nigu River, Bonanza Creek, Meade River, etc.

2019 JUN

Table with columns: MCK, Name, Time, Date, Status, Location, etc. Includes entries like McKinley, Glory Hole Cre, Happy Valley, Your Creek, Franklin Bluff, etc.

208

Table with columns: Name, Time, Date, Status, Location, etc. Includes entries like Steamboat Moun, Chicken, Kandik River, Waxell Ridge, Beaver Creek, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists various stations like URZ, URZU, URZU, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists various stations like MKAR, MKAR, MKAR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists various stations like GSPA, LPAZ, H10N1, etc.

ISC 04 00:32:58.9.1.3, 43.53N, 89.50E, h10km, mb3.8/3, m20p3.8, ML2.6/5, MS2.7/1, Error ellipse: s-maj=30.2km s-min=13.9km

ISC 04 01:14:24.0.1.1, 55.30S, 29.99W, h0km, mb3.8/4, mb1p3.9/4, Error ellipse: s-maj=47.3km s-min=24.9km az=73.0, South Sandals Islands region

NEIC 04 01:15:38.6:2.0, 21.55S:0.1:174:12W:0.10, h10km, 1km, mb5.1/216, Mw5.2/13, Error ellipse: s-maj=19.7km s-min=15.2km az=190.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists stations like MK31, MK31, MK31.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists stations like SNA4, SNA4, SNA4.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists stations like SBA, Vnda, Vnda.

MBWA	Marble Bar	61.05	257	P	P	01 25 51.1	-1.4
JCJ	Chichijima	64.11	137	LR	LR	01 49 25.0	
CASY	Casey	64.59	206	Iamb	Iamb	01 26 16.7	+1.5
TOLIZ	Tolifoli	67.23	281	P	P	01 26 30.3	-0.1
QSPA	South Pole Qui	68.59	180	P	P	01 26 41.6	+0.5
QSPA	South Pole Qui	68.59	180	P	P	01 26 40.9	-0.2
MJAR	Matsushiro Arr	73.11	322	P	P	01 27 08.2	-0.6
MJAR				LR	LR	01 59 21.4	
ATKA	Atka Island	73.37	0	P	P	01 27 11.6	+1.8
JOW	Kunigami	73.50	308	LR	LR	01 54 57.4	
SHEM	Shemaya Is, Ala	74.59	353	LR	LR	01 56 11.7	
JNU	Nakatsue	75.42	315	LR	LR	01 52 36.6	
LPIG	La Pa	76.94	57	LR	LR	01 56 55.4	
CNBA	Chernabura Isl	77.03	9	P	P	01 27 31.9	+1.0
PFO	Pinyon Flats O	77.67	46	LR	LR	01 59 42.0	
PETK	Petrovsk	78.17	343	P	P	01 27 37.8	+0.4
PETK	Petrovsk	78.17	343	P	P	01 27 36.7	-0.6
WAKR	Walker	78.74	41	P	P	01 27 41.9	+0.8
PNTR	Pine Nut	79.01	40	P	P	01 27 43.2	+0.6
LHV	Little Huntoon	79.15	42	P	P	01 27 44.3	+1.2
GMN	Gold Mountain	79.35	43	P	P	01 27 45.5	+0.9
RYN	Ryan	79.37	41	P	P	01 27 45.5	+0.9
NVAR	Mina Array Bea	79.39	41	P	P	01 27 44.1	-0.6
NVAR	Mina Array Bea	79.39	41	P	P	01 27 44.5	-0.2
NV11	Mina Array Bea	79.48	42	P	P	01 27 45.2	+0.1
PAHR	Pah Rah Range	79.53	40	P	P	01 27 45.7	+0.4
SII	Sitkinak Island	79.56	11	P	P	01 27 43.4	-1.6
TPNV	Topopah Spring	79.78	44	P	P	01 27 47.7	+0.9
TPH	Topopah	79.84	42	P	P	01 27 48.0	+0.9
QZH	Quanzhou	79.89	302	P	P	01 27 48.2	+0.8
QZH				S	S	01 37 55.2	+4.0
QZH				pmx	pmx		
QZH				pmx	pmx		
QZH				LR	LR		
QZH				LR	LR		
KSR5	Korea Array	79.97	317	P	P	01 27 47.0	-0.5
KSR5				LR	LR	01 59 01.5	
V12A	Nelson	79.98	45	P	P	01 27 48.9	+1.1
KSAR	Wonju Array Be	79.98	317	P	P	01 27 47.2	-0.5
Y14A	Wickenburg	80.21	48	P	P	01 27 50.5	+1.4
SHPR	Sheep Range	80.23	45	P	P	01 27 49.8	+0.6
J04A	Umpqua Nationa	80.26	36	P	P	01 27 50.9	+1.6
OHAK	Old Harbor	80.36	11	P	P	01 27 47.3	-1.9
I04A	Tendick Farm,	80.47	35	P	P	01 27 50.1	-0.1
R18K	Kariuk	80.47	11	P	P	01 27 47.4	-2.3
S11A	Rachel	80.52	43	P	P	01 27 51.7	+0.9
COR	Corvallis	80.53	34	P	P	01 27 51.7	+1.3
J05D	Fort Rock, OR	80.77	36	P	P	01 27 53.2	+1.2
PRN	Pahroc Range	80.82	44	P	P	01 27 52.7	+0.3
Q17K	Contact Creek	80.90	10	P	P	01 27 49.5	-2.7
ACHA	Angle Creek He	80.94	10	P	P	01 27 51.6	-0.8
KDAK	Kodiak Island	81.01	12	P	P	01 27 50.9	-1.8
O14K	Tiguykaiuvet M	81.15	7	P	P	01 27 51.7	-1.7
O15K	Ungalikiuik R	81.24	7	P	P	01 27 50.9	-2.9
PINE	Pine Mountain	81.27	36	P	P	01 27 55.0	+0.3
P16K	Nushagak River	81.33	8	P	P	01 27 52.0	-2.4
Q18K	Katmai Hardscr	81.41	10	P	P	01 27 53.7	-1.2
X16A	Lo Mia Camp, P	81.55	48	P	P	01 27 55.3	-1.0
WVOR	Wild Horse Val	81.59	38	P	P	01 27 56.8	-0.1
P17K	Kvichak River	81.71	9	P	P	01 27 55.3	-1.0
E03A	Lebam	81.73	33	P	P	01 27 58.2	+1.4
N14K	Kuskokwak Cree	81.76	6	P	P	01 27 54.1	-2.4
USA0B	Ussuriysk Arra	81.77	324	P	P	01 27 57.3	+0.2
USR4	Ussuriysk Ar,	81.77	324	P	P	01 27 57.0	-0.1
USR4	Ussuriysk Ar,	81.77	324	P	P	01 27 57.2	+0.2
USR4				LR	LR	02 01 34.9	
LCMT	Little Creek M	81.78	45	P	P	01 27 57.2	-0.2
MAW	Mawson	81.80	199	P	P	01 27 56.6	-0.4
Q20K	Shuyak Island	81.83	11	P	P	01 27 54.6	-2.4
M11K	Mekoryuk	81.83	4	P	P	01 27 54.8	-2.1
O16K	Kokwok River B	81.86	8	P	P	01 27 57.4	+0.3
O16K	Kokwok River B	81.86	8	P	P	01 27 58.0	
O16K	Kokwok River B	81.86	8	P	P	01 27 55.3	-1.8
HOOD	Mount Hood Mea	81.89	34	P	P	01 27 58.7	+0.8
Q19K	Cape Douglas,	81.90	11	P	P	01 27 57.2	-0.3
Q19K	Cape Douglas,	81.90	11	P	P	01 27 56.3	-1.1
U15A	North Rim	82.08	46	P	P	01 27 59.6	+0.4
M13K	Dali Lake	82.08	5	P	P	01 27 57.0	-1.3
P18K	Big Mountain,	82.08	10	P	P	01 27 57.9	-0.5
P18K	Big Mountain,	82.08	10	P	P	01 28 12.7	
P18K	Big Mountain,	82.08	10	P	P	01 27 56.7	-1.7
O17K	Koliganek Bris	82.17	9	P	P	01 27 57.2	-1.6
N15K	Kwethluk River	82.17	7	P	P	01 27 56.6	-2.2
I07A	Iape	82.24	36	P	P	01 28 00.3	+0.6
J06A	Circle Bar Ran	82.36	37	P	P	01 28 00.1	+0.2
O18K	Koktuk Hills	82.53	10	P	P	01 27 58.9	-1.7
M14K	Bethel	82.55	6	P	P	01 28 01.0	+0.3
M14K				Iamb	Iamb	01 28 16.2	

M14K	Bethel	82.55	6	P	P	01 27 59.5	-1.2
M15K	Kasigluk River	82.62	7	P	P	01 27 59.5	-1.6
N16K	Nisik Lake	82.63	8	P	P	01 28 00.1	-1.1
P19K	Oil Pt	82.66	11	P	P	01 28 02.1	+0.8
P19K	Oil Pt	82.66	11	P	P	01 27 59.5	-1.9
ELK	Elko	82.67	41	P	P	01 28 02.1	-0.1
ELK	Elko	82.67	41	LR	LR	02 02 11.8	
H03N2	Juan Fernandez	82.68	123	T	T	03 00 24.8	
H03N3	Juan Fernandez	82.68	123	T	T	03 00 26.9	
H03N1	Juan Fernandez	82.69	123	T	T	03 00 32.7	
LON	Longmire	82.76	33	P	P	01 28 01.9	-0.3
N17K	Nushagak Hills	82.89	8	P	P	01 28 01.1	-1.4
CNPM	China Poot	82.90	12	P	P	01 28 01.8	-0.8
HOM	Homer	82.95	11	P	P	01 28 01.8	-1.0
D05A	Enumclaw	82.96	33	P	P	01 28 02.6	-0.6
O19K	Port Alsworth	82.99	10	P	P	01 28 03.3	+0.3
O19K	Port Alsworth	82.99	10	P	P	01 28 01.7	-1.3
L14K	Kuka Creek	83.06	6	Iamb	Iamb	01 28 11.8	
L14K	Kuka Creek	83.06	6	P	P	01 28 01.9	-1.4
M16K	Timber Creek	83.14	7	P	P	01 28 03.2	-0.6
M16K	Timber Creek	83.14	7	P	P	01 28 02.6	-1.2
O20K	Slope Mountain	83.17	11	P	P	01 28 02.7	-1.4
BRLL	Bradley Lake	83.19	12	P	P	01 28 04.2	+0.1
BRSE	Bradley Lake S	83.19	12	P	P	01 28 02.5	-1.6
N18K	Kizae Creek	83.22	9	P	P	01 28 02.5	+1.0
N18K	Kizae Creek	83.22	9	P	P	01 28 02.4	-1.9
NJ2	Nanjing	83.22	308	eP	eP	01 28 09.1	+4.2
NJ2				sS	sS	01 38 39.1	+11
NJ2				pmx	pmx		
NJ2				pmx	pmx		
NJ2				LR	LR		
NJ2				LR	LR		
NJ2				LR	LR		
MVU	Marysvalde	83.29	44	P	P	01 28 05.6	+0.1
G08A	Pilot Rock	83.31	36	P	P	01 28 06.1	+0.9
G08A				Iamb	Iamb	01 28 35.3	
MDJ	Mudanjiang	83.36	323	P	P	01 28 06.5	+1.2
MDJ				PP	PP	01 31 19.0	+1.5
MDJ				S	S	01 38 31.7	+5.4
MDJ				pmx	pmx		
MDJ				pmx	pmx		
MDJ				LR	LR		
MDJ				LR	LR		
MDJ				LR	LR		
MDJ				LR	LR		
MXC	Moxie	83.43	34	P	P	01 28 05.5	-0.1
RED	Redout Volcan	83.46	11	P	P	01 28 05.7	+0.1
K13K	Kusivuk Mount	83.48	5	P	P	01 28 04.4	-1.1
L15K	Ungalak Mounta	83.50	6	P	P	01 28 04.7	-0.9
N19K	Bonatz Creek	83.56	10	Iamb	Iamb	01 28 11.3	
N19K	Bonanza Creek	83.56	10	P	P	01 28 05.2	-0.8
M17K	Holitna River	83.70	8	P	P	01 28 07.2	+0.6
M17K	Holitna River	83.70	8	P	P	01 28 06.3	-0.4
HAWA	Hanford	83.71	35	P	P	01 28 07.9	+0.8
HAWA				Iamb	Iamb	01 28 23.0	
L16K	Owhat River	83.75	7	Iamb	Iamb	01 28 22.6	
L16K	Owhat River	83.75	7	P	P	01 28 06.5	-0.3
SEW	Seward	83.78	12	P	P	01 28 06.4	-0.7
Q23K	Midleton Isla	83.81	14	P	P	01 28 07.2	-0.1
MFID	Camas Ranch	83.92	39	P	P	01 28 08.8	+0.4
MFID				Iamb	Iamb	01 28 38.2	
WAH2	Wahluk Slope	83.93	34	P	P	01 28 07.8	-0.4
WAH2				Iamb	Iamb	01 28 10.3	
HMU	Henry Mountain	83.94	45	P	P	01 28 07.9	-1.0
BMO	Blue Mountains	83.95	37	P	P	01 28 08.3	-0.2
SLMK	Skliak Lake	84.00	12	P	P	01 28 08.4	+0.1
M18K	Stony River	84.00	9	P	P	01 28 07.5	-0.7
LNOR	Linton Mounta	84.05	36	P	P	01 28 09.2	+0.2
P23K	Montague Islan	84.10	13	P	P	01 28 08.2	-0.6
K15K	Wolf Creek Mou	84.10	6	P	P	01 28 09.2	+0.5
K15K	Wolf Creek Mou	84.10	6	P	P	01 28 08.7	0.0
CRAQ	Craig	84.25	22	P	P	01 28 08.8	-0.8
N20K	Mount Spurr	84.29	11	P	P	01 28 08.9	-0.9
SPCR	Spurr Chakacha	84.29	11	P	P	01 28 08.4	-1.4
L17K	Donlin	84.30	7	P	P	01 28 08.7	-1.1
J14K	Nanvaranak Lak	84.37	5	P	P	01 28 09.2	-0.8
TMUT	Trail Mountain	84.38	44	P	P	01 28 10.4	-0.7
QIZ	Qiongzong	84.46	293	P	P	01 28 12.5	+1.0
QIZ				S	S	01 38 40.4	+2.0
QIZ				pmx	pmx		
L18K	Granite Mounta	84.58	8	P	P	01 28 11.1	-0.1
L18K	Granite Mounta	84.58	8	P	P	01 28 26.9	
M19K	Big River Lodg	84.61	9	Iamb	Iamb	01 28 16.1	
M19K	Big River Lodg	84.61	9	P	P	01 28 10.8	-0.5
RC01	Rabbit Creek A	84.63	12	P	P	01 28 10.9	-0.5
STLK	Strandline Lak	84.64	11	Iamb	Iamb	01 28 15.6	
TXAR	Lajitas Array	84.67	56	P	P	01 28 12.7	+0.2
TXAR				LR	LR	01 59 25.7	
V35K	Ketchikan	84.68	23	P	P	01 28 11.0	-0.8
PWL	Port Wells	84.69	12	P	P	01 28 10.9	-0.9
KAM	Kandyg Island	84.70	15	P	P	01 28 10.9	-0.9
SRU	San Rafael Sve	84.72	44	Iamb	Iamb	01 28 24.3	
U33K	Whale Pass	84.76	22	P	P	01 28 11.8	-0.3
M20K	Styx River	84.78	10	Iamb	Iamb	01 28 16.9	

4d 1h

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like H16K, CTG, CTMG, WAT6, CAST, PLBC, J19K, T35M, WAT1, O28M, O29M, SYO, G15K, CM1G, TRF, TRF, SKAG, HARP, UBPT, J30K, J20K, S34M, H17K, F14K, VNA3, SNA4, SNA4, TNA, DHY, GCSA, YUK8, G16K, YUK6, PAX, BPAW, M26K, M26K, MCK, H18K, F15K, HYT, YUK3, Q32M, PDAR, PDAR, P32M, G17K, I20K, YUK4, KULM, M27K, MENT, O30N, O30N, DLBC, DLBC, L26K, L26K, BVCV, H19K, WHY, WHY, K24K, N30M, N30M, G18K, G18K, H20K, NEA2, RIDG, HEH, HEH, HEH, RPSI, RPSI.

2019 JUN

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like R33M, R33M, L27K, L27K, I21K, BCAR, DOT, P33M, MLY, MLY, SEY, HDA, HDA, F17K, N31M, G19K, M29M, SCRK, SCRK, H21K, H21K, I23K, F18K, IL31, ILAR, ILAR, J25K, J25K, POKR, GSI, E17K, HNS, HNS, HNS, HNS, H22K, K27K, K27K, F19K, F19K, J26L, L29M, H23K, LYN, LYN, LYN, LYN, LYN, G21K, E18K, M31M, D17K, H24K, F20K, PRP, DAWY, DAWY, E19K, E19K, I26K, I26K, K29M, K29M, G22K, F21K, F21K, G23K, G23K, C17K, GYA, GYA, GYA, G24K, F22K, COLD, I27K, C18K, MPPY, MPPY, E20K, SLVN, D19K, I28M.

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Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like BEAVL, J30M, J30M, I29M, I29M, D20K, D20K, E22K, E22K, F24K, H27K, H27K, E21K, C19K, C19K, KOTAN, B18K, G26K, G26K, E23K, I30M, I30M, E24K, F25K, BMAR, G27K, D22K, C21K, XAN, XAN, XAN, XAN, XAN, H29M, TOLK, F26K, E25K, D23K, A19K, B21K, EPYK, EPYK, B20K, H31M, G29M, F28M, NNA, HHC, HHC, HHC, HHC, E27K, E27K, E27K, C23K, G30M, D25K, B22K, C24K, KMI, KMI, KMI, KMI, G31M, JTS, A22K, F30M, E28M, D27M, CMAR, CMAR, CMAR, CHTO, CHTO, PZH, YKA, YKA, LZH, LZH, ULM, WMQ, WMQ, MKAR, KURBB, BVAR.









Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AMCZ Amberley, OKCX Okains Bay, etc.

NEIC 04 02:23:58.4+1.0, 35.266N, 0.008, 97.754W, 0.010, h4km, 2km, ML1.7/3, ML1.6/31, Error ellipse: s-maj=1.2km s-min=1.2km az=105.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like FNO Franklin, OK004 Okla Sci Mus, etc.

KRSC 04 02:37:16.2±0.9, 56.00N, 164.28E, h15km±15km, MI3.7, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MSK Mys Kozlova, MKZ, KRKR, etc.

IDC 04 02:50:39.2±2.1, 50.47N, 159.86E, h0km, mb3.8/6, mbmp3.7/7, ML2.4/1, MS2.8/3, Error ellipse: s-maj=49.0km s-min=23.3km az=15.0

KRSC 04 02:50:40.3±1.6, 50.55N, 160.14E, h46km±24km, MI.8, NEIC 04 02:50:41.1±0.9, 50.51N, 159.8E, 0.1, h10km, 1km, mb4, 1/22, Error ellipse: s-maj=17.9km s-min=14.2km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KDTR Khodutka, Kamc, RUS Russkaya, PAU Puzhetka, etc.

USA0B Ussuriysk Arra 19.89 262 P 02 55 10.3 -2.2

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like K17K, N17K, G18K, etc.

H19K Roundabout M2s 26.84 40 P 02 56 20.6 -0.5

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like B20K, G21K, H21K, etc.

YKA Yellowknife Ar 45.16 41 P 02 58 57.8 +0.7

KBTR Krutoberegovo 0.84 285 eP 02 37 42.9 -0.7

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KAPI Kappang, FITZ Fitzroy Crossi, etc.

IDC 04 03:02:32.6±0.7, 50.48N, 159.89E, h0km, mb4.0/19, mbmp4.0/23, ML3.6/3, MS2.8/4, Error ellipse: s-maj=17.8km s-min=13.5km az=161.0

KRSC 04 03:02:33.2±1.1, 50.52N, 160.04E, h63km±39km, MI.4, NEIC 04 03:02:35.3±1.1, 50.60N, 160.09E, 159.9E, 0.1, h10km, 1km, mb4, 4/47, Error ellipse: s-maj=16.3km s-min=10.7km az=196.0

MOS 04 03:02:37.8±0.9, 50.64N, 159.82E, h49km, mb4.6/12, Error ellipse: s-maj=10.3km s-min=3.5km az=97.3

IDC 04 03:02:38.6±1.2, 50.56N, 160.05E, 159.92E, 0.05, h40km±10km, n168, r193/150, mb4.3/52, 5C, East of Kuril Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KDTR Khodutka, Kamc, RUS Russkaya, PAU Puzhetka, etc.

USA0B Ussuriysk Arra 19.89 262 P 02 55 10.3 -2.2

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like K17K, N17K, G18K, etc.

YKA Yellowknife Ar 45.16 41 P 02 58 57.8 +0.7

KBTR Krutoberegovo 0.84 285 eP 02 37 42.9 -0.7

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like KLR, USRK, YAK, MJAJO, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like BW06, PD31, PDAR, AB31, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like AF01, PB06, TA01, etc.

AEIC 04 03:32.1±1.0, 53.09N, 0.06°167.08W, 0.03, h26km, 7km, Error ellipse: s-maj=9.0km s-min=1.2km az=162.0 NEIC 04 03:32.8±1.2, 53.11N, 0.06°167.08W, 0.07, h35km, 2km, ML3.2/12, ML2.9(AEIC), Error ellipse: s-maj=12.6km s-min=3.1km az=146.0, Fox Islands

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like OKFG, OKTU, MGOD, etc.

SJA 04 03:15:59.8±0.8, 21.78S; 68.77W, h132km, 6km, ML4.3, MW4.1 VAO 04 03:16:00.4±0.6, 21.68S; 68.49W, h89km, 5km, mb4.7 NEIC 04 03:16:01.9±2.0, 21.77S; 68.74W, 0.06, h120km, 5km, mb4.5/82, Mw4.3(GUC), Error ellipse: s-maj=8.6km s-min=5.9km az=75.0 GUC 04 03:16:02.0±0.7, 21.76S; 68.77W, h118km, 3km, ML4.4 IDC 04 03:16:26.5±1.7, 19.43S; 67.63W, h269km, 15km, mb3.47, mbmp4.1/11, Error ellipse: s-maj=22.7km s-min=13.9km az=15.0 ISC 04 03:16:00.5±0.6, 21.78S; 68.64W, 0.04, h116km, 5km, n206, ±1540/237, mb4.5/44, Chile-Bolivia border region

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like PB09, PB03, PB01, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like CO03, MUR1, PTLB, etc.



Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like TBGT Tabatinga, AM, FRFB Faturra, TEFE Tefe, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like YHH Holmes Hill, TOR Torodi Arr, PAHR Pah Rah Range, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like JOW Kunigami, BBO Ouckbeo, STKA Stephens Creek, etc.



mbmp4.0,5,MS3.1/3, Error ellipse: s-maj=38.2km s-min=35.6km az=118.0

ISC 04 04:36:37.1, 1.2, 15.6S, 0.2, 17.4W, 0.3, h94km, n14,

o#92.6, mb4.15, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MSVF Nonsavu, RAR Farotonga, H1S2 WAKE ISLAND Hy 38.830, etc.

SNET 04 04:30:13.9, 0.9, 12.93N, 89.38W, h33km, 4km, ML2.3 GCG 04 04:30:15.1, 0.1, 13.09N, 89.52W, h68km, 6km, MD3.6

CATAC 04 04:30:15.3, 1.0, 13.16N, 8.9W, h31km, 6km, M2.6/7, MLV2.6, Error ellipse: s-maj=13.5km s-min=7.9km

az=16.2, confirmed

ISC 04 04:30:14.2, 3.2, 12.9N, 0.2, 89.41W, 0.08, h43km, n31, o#134/34, Off coast of central America

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LALI Alcalda de L, JAYA Jayaque -finc, etc.

NEIC 04 04:34:02.0, 0.6, 33.951N, 0.006, 116.83W, 0.02, h18km, 1km, Error ellipse: s-maj=2.2km s-min=0.9km

az=81.0

PAS 04 04:34:02.6, 0.8, 33.956N, 0.010, 116.82W, 0.01, h15km, 1km, ML3.2, ML2.9/54(NEIC), Error ellipse: s-maj=1.4km s-min=1.2km az=213.0, Southern California

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BBSC Beaumont Base, DGR Domenigoni Val, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MATG Mataguay Scout, ADO Adelanto Recei, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GSC Goldstone, TKX Tecate, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ESJX Sierra Juarez, ESJX Sierra Juarez, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GWY Greenwater Val, GWY Greenwater Val, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BCW Bitter Crk WRG, BCW Bitter Crk WRG, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like V12A Nelson, V12A Nelson, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like W13A Hualapal Mou, W13A Hualapal Mou, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like 113A Mohawk Valley, SHPR Sheep Range, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GRAC Grapevine 4s, GRAC Grapevine 4s, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Y14A Wickenburg, Y14A Wickenburg, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GMM Gold Mountain, DSP Deep Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like M1A Rachel, LCMT Little Creek M, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like U15A North Rim, KNB Kanab, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RVN Ryan, RYNT Pine Spring, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JMA 04 04:38:30.7, 0.1, 36.3N, 0.3, 142.0E, 0.6, h42km, MV2.5/32, E OFF MIYAGI PREF, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JIKH Ishinomakikubo, JIO Ouri, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JJKM Kesenumamotoy, JKMT Kesenumamotoy, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OFUJ Ofunato, OFUJ Ofunato, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JMK Ichinoseki, JMK Ichinoseki, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JOU Okura, JOU Okura, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JMM Marumori, JMM Marumori, etc.

Mn=0.41; Mso0.71; Mso0.31; Mso0.82; Mso1.04; Mso4.32; Fault plane solution: M=4.55000x1018, N17.0, 85.03000, 814.90000, Az=172.19000, NP2=3.27, 48000, 888.00000, Az=75.23000, Principal axes: T 4.2627, Plg41.0000, Azm64.0000, N 0.2515, Plg15.0000, Azm167.0000, P -4.6782, Plg45.0000, Azm272.0000, NEIC 04 04:39:17.7, 29.06N, 139.30E, h446km, 3km, mb5.6/48, IDC 04 04:39:18.5, 0.4, 29.11N, 139.21E, h446km, 3km, mb5.6/48, mbtmp=4.55, Error ellipse: s-maj=5.5km s-min=3.8km az=94.0

GCMT 04 04:39:19.0, 0.1, 29.08N, 139.17E, h439km, MW6.4/178, Moment Tensor Solution, s3 Moment tensor, Scale 10^19Nm; Duration: 39; Moment tensor: Scale 10^19Nm; Mn=0.46; 0.1; Mso0.69; 0.2; Mso0.23; 0.2; Mso0.82; 0.2; Mso0.98; 0.2; Mso4.80; 0.2; Best double couple: M=4.99800x1018, NP1=8.7, 0.00000, 813.00000, Az=171.00000, NP2=3.49, 0.00000, 888.00000, Az=77.00000, Principal axes: T 4.8490, Plg42.0000, Azm67.0000, N 0.2980, Plg13.0000, Azm168.0000, P -5.1470, Plg46.0000, Azm271.0000; nsta1 refers to body waves, cutoff=40s, nsta2 refers to mantle waves, cutoff=125s. Triangular moment-rate function

ISC 04 04:39:17.9, 0.2, 29.07N, 0.2, 139.28E, 0.02, h437km, 1km, h173km, P, P, #067, #159/3493, mb6.2/766, 123C-184D, Southeast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like CBJ1 Chichi jima, CBJ2 Chichi jima, etc.

BGR 04 04:38:35.1, 29.58N, 139.73E, h33km, mb6.1, mB\_BB6.6, Ms5.6

NEIC 04 04:39:15.9, 29.06N, 139.66E, h445km, MW6.3, Moment Tensor Solution, s3 Moment tensor, Scale 10^19Nm; Mn=0.88; Mso0.49; Mso0.40; Mso0.19; Mso0.32; Mso1.32; Fault plane solution: M=3.39000x1018, NP1=3.08, 0.0000, 816.00000, Principal axes: T 5.2661, Plg42.0000, Azm68.0000, N 0.2228, Plg15.0000, Azm172.0000, P -5.4032, Plg45.0000, Azm277.0000, NEIC 04 04:39:16.0, 0.7, 29.06N, 139.25E, h436km, mb6.3/89, MS5.4/10, Error ellipse: s-maj=6.7km s-min=3.7km az=109.3

BUI 04 04:39:16.4, 29.05N, 139.30E, h430km, mb6.5/78, mb6.2/96

NEIC 04 04:39:17.29, 0.7N, 139.31E, h440km

IPG 04 04:39:17.0, 29.06N, 139.29E, h439km, Mw6.4, Fault plane solution: NP1=3.98, 0.0000, 812.00000, 888.00000, Az=75.00000, Principal axes: T 5.2661, Plg42.0000, Azm68.0000, N 0.2228, Plg15.0000, Azm172.0000, P -5.4032, Plg45.0000, Azm277.0000, NEIC 04 04:39:17.29, 0.7N, 139.31E, h440km, Moment Tensor Solution, Duration: 7.7, Moment tensor: Scale 10^19Nm;

TOK	Tokyo	6.61 3 A	A	04 40 57.3
JMAF	Mimaanabuki	6.61 320 A	A	04 40 59.7
JSMT	Sanmutsuo	6.61 320 A	A	04 40 57.2
JKHR	Kochiharuno	6.64 313 A	A	04 41 00.3
JGF	Kuroka	6.71 346 P	P	04 40 58.8 +0.1
JGF	Kuroka	6.71 346 P	P	04 41 00.0 +1.3
JGF	Kuroka	6.71 346 A	A	04 40 59.4
JGF	Kuroka	6.71 346 P	P	04 40 59.4 +0.7
JTO	Tosashimizu	6.72 306 eS	S	04 41 01.1 +2.4
JTO	Tosashimizu	6.72 306 A	A	04 41 01.1 +2.5
JMIK	Miki	6.75 329 A	A	04 41 00.9
JKU	Kubokawa	6.80 310 A	A	04 41 02.2
JKU	Kubokawa	6.80 310 P	P	04 41 01.9 +2.3
JYTA	Yamagatanai	6.85 342 A	A	04 41 01.1
JYTA	Yamagatanai	6.85 342 P	P	04 41 01.6 +1.6
JNT	Takato	6.86 352 A	A	04 41 00.6
JRY	Ryogami san	6.94 357 eS	S	04 41 00.5 -0.5
JRY	Ryogami san	6.94 357 A	A	04 41 00.5
JIHU	Itakohinouch	6.96 8 A	A	04 41 00.7
JJS	Sakaide	6.98 321 A	A	04 41 03.7
JKS	Kasai	7.00 329 A	A	04 41 03.5
JWT	Wachi	7.01 333 A	A	04 41 03.5
JWT	Wachi	7.01 333 P	P	04 41 03.3 +1.6
JFM	Mihama	7.02 337 A	A	04 41 03.3
UWA2	Uwa jima 2	7.04 308 A	A	04 41 04.9
UWA2	Uwa jima 2	7.04 308 P	P	04 41 04.7 +2.5
JET	Tanbara	7.10 313 A	A	04 41 05.3
JET	Tanbara	7.10 313 P	P	04 41 05.3 +2.5
JYT	Yasato	7.11 318 A	A	04 41 03.3
JAD	Aida	7.29 325 A	A	04 41 06.9
JAD	Aida	7.29 325 P	P	04 41 06.6 +1.8
JNKG	Nichinankitago	7.30 293 A	A	04 41 08.2
JGN	Niukaw	7.33 347 A	A	04 41 06.0
JHYU	Hitachinakayama	7.34 8 A	A	04 41 04.8
JAG	Ashikaga	7.34 1 P	P	04 41 03.5 -1.8
JAG	Ashikaga	7.34 1 A	A	04 42 27.5 -6.3
JNA	Nagahama	7.34 309 A	A	04 41 08.1
JNA	Nagahama	7.34 309 P	P	04 41 08.1 +2.7
JNAR	Kushima-Naru	7.34 291 A	A	04 41 08.7
JSKE	Saikikamae	7.35 302 A	A	04 41 08.4
JTN	Tanegashima 3	7.38 284 A	A	04 41 09.2
JTN	Tanegashima 3	7.38 284 P	P	04 41 08.5 +2.7
JNG	Nsakai	7.39 353 A	A	04 41 06.3
JHHC	Higashiguchi	7.39 299 A	A	04 41 08.9
JMTN	Minamitane	7.41 282 A	A	04 41 09.5
JMTN	Minamitane	7.41 282 P	P	04 41 08.9 +2.7
JTSN	Tsuno	7.41 296 A	A	04 41 09.3
JKY	Yasaka	7.43 333 A	A	04 41 08.1
JKY	Yasaka	7.43 333 P	P	04 41 08.0 +1.6
JKG	Kuni	7.43 333 A	A	04 41 07.3
MJAR	Matsushiro Arr	7.51 353 P	P	04 41 06.3 -0.9
MJAR	Matsushiro Arr	7.51 353 A	A	04 42 32.8 -4.3
MJAR	Matsushiro Arr	7.51 353 ScP	ScP	04 49 48.6 +0.4
MAJO	Matsushiro	7.51 353 P	P	04 41 06.4 -0.8
MAJO	Matsushiro	7.51 353 P	P	04 41 07.0 -0.2
MAJO	Matsushiro	7.51 353 P	P	04 41 06.3 -0.8
MAJO	Matsushiro	7.51 353 S	S	04 42 35.5 -1.6
MAJO	Matsushiro	7.51 353 P	P	04 41 06.6 -0.6
MAT	Matsushiro Tunnel	7.51 353 P	P	04 41 06.6 -0.6
MJB	Matsushiro Tunnel	7.51 353 P	P	04 41 06.9 -0.3
JTSR	Tashiro 2	7.54 288 A	A	04 41 10.9
JKSM	Kasumi	7.58 304 A	A	04 41 09.8
JKSM	Kasumi	7.58 304 P	P	04 41 09.5 +1.6
JUS	Usuki	7.59 304 A	A	04 41 11.1
JHO	Hitachi	7.60 8 A	A	04 41 07.7
JKIT	Kitakata	7.60 300 A	A	04 41 11.4
JKG	Kaga	7.61 342 A	A	04 41 09.4
JTZ	Takazaki	7.61 294 A	A	04 41 11.6
JTZ	Takazaki	7.61 294 P	P	04 41 11.4 +3.1
JJG	Jouge	7.62 318 A	A	04 41 10.8
JKT	Katashina	7.68 360 A	A	04 41 09.1
JTT	Tatey	7.69 348 A	A	04 41 10.0
JYAK	Yakushiharau	7.72 320 A	A	04 41 13.0
JYAK	Yakushiharau	7.72 320 P	P	04 41 11.9 +2.3
JKDJ	Kitadaitoujima	7.74 248 A	A	04 41 12.9
JKR	Kurayoshi	7.75 325 A	A	04 41 12.6
JMZ	Minamidaito 2	7.85 248 P	P	04 41 11.7 +0.7
JMZ	Minamidaito 2	7.85 248 P	P	04 41 13.5 +2.4
JMZ	Minamidaito 2	7.85 248 P	P	04 42 18.9 +1.7
JMZ	Minamidaito 2	7.85 248 eS	S	04 41 12.8
JMZ	Minamidaito 2	7.85 248 A	A	04 41 12.8
JMS	Minamidaito 2	7.85 248 P	P	04 41 12.8 +1.7
JMS	Saijiyo	7.89 320 P	P	04 41 13.6 +2.2
JHS	Saijiyo	7.89 320 A	A	04 41 13.6
JUSB	Shioba	7.90 4 A	A	04 41 11.3
JBEP	Keppurayama	7.97 304 A	A	04 41 15.2
JSU	Suzuyama	8.01 290 A	A	04 41 16.1
JKI	Kumimi	8.01 307 A	A	04 41 15.6
JKC	Kuchinoerabu	8.02 282 A	A	04 41 16.3
JKD	Kudamatsu	8.04 310 A	A	04 41 15.8
JIU3	Izumizaki	8.06 298 A	A	04 41 16.5
JHT	Tohyohira	8.07 315 A	A	04 41 15.9
JJN	Nakama	8.07 354 A	A	04 41 13.8
JFFD	Fukushimafurud	8.07 7 A	A	04 41 12.9
JZO	Okuchi	8.11 294 A	A	04 41 16.8
JJH	Hakui	8.11 346 A	A	04 41 14.8
ONAJ	Iwakimatsubashi	8.11 11 9 A	A	04 41 13.3

JUON	Unouma	8.12 359 A	A	04 41 14.0
JZK	Kikaishima	8.21 267 A	A	04 41 18.5
JNN	Nakanishi	8.25 278 A	A	04 41 18.8
JNU	Nakatsue	8.26 301 P	P	04 41 17.3 +2.0
JNU	Nakatsue	8.26 301 P	P	04 41 16.9 +1.5
JNU	Nakatsue	8.26 301 S	S	04 42 47.3 -5.0
JNU	Nakatsue	8.26 301 ScP	ScP	04 49 44.0 +0.3
JNU	Nakatsue	8.26 301 P	P	04 41 18.2 +2.9
JNU	Nakatsue	8.26 301 A	A	04 41 18.6
JG2T	Shimane-Amata	8.29 318 A	A	04 41 18.2
JG2T	Shimane-Amata	8.29 318 A	A	04 41 17.7 +2.1
JHK	Hikimi	8.29 313 A	A	04 41 18.5
JFM	Ikuma	8.31 322 A	A	04 41 18.3
JNY	Yanaizu	8.32 2 P	P	04 41 16.1
JFY	Yanaizu	8.32 2 P	P	04 41 15.6 -0.4
JFK	Kawauchi	8.38 9 A	A	04 41 16.3
JST	Zuimosakura	8.41 321 A	A	04 41 19.4
JTK	Tamana	8.45 300 A	A	04 41 20.8
JZZ	Zuimosakura	8.45 321 A	A	04 41 17.9
JSZ	Suzu	8.51 350 A	A	04 41 19.0
JSZ	Suzu	8.51 350 P	P	04 41 17.3 -0.6
JOTO	OTAMA OYAMA	8.51 350 P	P	04 41 17.3 -0.6
JAM	Amami Oshima	8.52 268 A	A	04 41 21.9
JAM	Amami Oshima	8.52 268 A	A	04 41 21.0 +2.8
JHD	Hondo	8.56 296 A	A	04 41 22.1
JFA	Akaike	8.60 305 A	A	04 41 22.3
JSJ	Shimokoshihiki	8.66 290 eS	S	04 41 21.7 +2.0
JSJ	Shimokoshihiki	8.66 290 S	S	04 43 03.8 +3.4
JTY	Toyota	8.67 300 A	A	04 41 21.7
JNS	Sasagawa	8.73 0 A	A	04 41 20.7
JMST	Minamisumitani	8.74 8 A	A	04 41 20.2
JFI	Iitaya	8.76 302 A	A	04 41 24.2
JOI	OKI	8.81 326 A	A	04 41 23.7
JTAJ	Takarajima	8.81 273 P	P	04 41 25.2
JTAJ	Takarajima	8.81 273 P	P	04 41 23.1 +1.7
JMM	Marumori	8.87 8 P	P	04 41 22.6 +0.8
JMM	Marumori	8.87 8 P	P	04 41 22.0 +0.2
JMM	Marumori	8.87 8 A	A	04 41 21.7
JMM	Marumori	8.87 8 P	P	04 41 22.1 +0.2
NGSJ	Nagasakinomozu	8.89 296 A	A	04 41 25.8
JAMN	Amaminishikomi	8.91 267 A	A	04 41 26.3
JUR	Ureshino	8.95 299 A	A	04 41 26.4
JHGM	Hagimishima	8.96 312 A	A	04 41 26.0
JHGM	Hagimishima	8.96 312 P	P	04 41 25.4 +2.5
JHG	Hegura jima	8.98 348 A	A	04 41 24.3
JSD	Sado	8.99 355 P	P	04 41 22.0 -1.1
JSD	Sado	8.99 355 P	P	04 41 22.1 -1.0
JSD	Sado	8.99 355 P	P	04 41 22.1 -1.1
JYS	Shiratake	9.15 4 A	A	04 41 25.2
JTK	Tokunoshima	9.16 264 P	P	04 41 29.3
JTK	Tokunoshima	9.16 264 P	P	04 41 28.8 +3.3
JOU	Okura	9.37 360 A	A	04 41 27.9 +0.8
JAW	Awa shima	9.37 360 A	A	04 41 27.9
JAW	Awa shima	9.37 360 P	P	04 41 27.1 -0.1
JJI	Iki	9.42 302 A	A	04 41 31.5
JJI	Iki	9.42 302 A	A	04 41 31.1 +3.1
JYA	Atsumi	9.51 2 A	A	04 41 29.3
JIO	Ouri	9.52 10 P	P	04 41 29.5 +0.5
JOKE	Okinoerabujima	9.60 262 A	A	04 41 34.0
JOKE	Okinoerabujima	9.60 262 A	A	04 41 33.1 +3.0
JFU	Fukue jima 2	9.73 294 A	A	04 41 35.3
JYRO	Yoronjima	9.78 261 A	A	04 41 36.0
JYK	Kaneyama	9.87 5 P	P	04 41 33.7 +0.9
JTSM	Tsushima	9.93 304 A	A	04 41 37.2
JOW	Kunigami	9.96 260 P	P	04 41 36.5 +2.3
JOW	Kunigami	9.96 260 P	P	04 41 35.9 +1.6
JOW	Kunigami	9.96 260 S	S	04 43 23.6 -3.6
JOW	Kunigami	9.96 260 ScP	ScP	04 49 52.0 +0.9
JOW	Kunigami	9.98 221 P	P	04 41 36.7 +2.4
JOW	Kunigami	9.98 260 A	A	04 41 38.3
JOW	Kunigami	9.98 260 P	P	04 41 37.4 +3.1
JOW	Kunigami	9.98 260 P	P	04 41 37.0 +2.8
JMK	Ichinoseki	9.99 9 A	A	04 41 34.3
JTU	Tsushima	10.01 305 P	P	04 41 36.9 +2.5
JTU	Tsushima	10.01 305 A	A	04 41 38.1
JTU	Tsushima	10.01 305 P	P	04 41 36.7 +2.3
JIH	Iheya	10.20 261 S	S	04 41 40.7
JIH	Iheya	10.20 261 S	S	04 41 39.5 +2.9
JNTH	Nagotoyohara	10.29 258 A	A	04 41 41.7
JOM	Ohasama	10.51 9 P	P	04 41 40.6 +0.7
JJT3	Tamagusuku3	10.60 257 A	A	04 41 45.2
JAGN	Aguni-jima	10.94 260 A	A	04 41 49.0
JAGN	Aguni-jima	10.94 260 P	P	04 41 47.3 +2.6
JKE	Kume jima 2	11.40 220 A	A	04 41 54.1
JANG	Nango	11.43 9 P	P	04 41 50.4 +0.5
JTM	Temabayashi	11.78 7 P	P	04 41 54.0 +0.2
JTM	Temabayashi	11.78 7 P	P	04 41 54.7 +0.9
JTM	Temabayashi	11.78 7 P	P	04 41 54.8 +1.1
JOT	Ohta	12.37 6 A	A	04 42 01.0
JOT	Ohta	12.37 6 P	P	04 42 01.1
JTN	Taejon	12.39 309 P	P	04 42 00.8 +0.4
JTN	Taejon	12.39 309 P	P	04 41 11.1
JTN	Taejon	12.39 309 P	P	04 42 01.0 +0.6
JSR	Shiruchi	12.47 4 P	P	04 42 02.5 +1.3
KSRS	Korea Array	12.65 314 P	P	04 42 04.0 +0.7
KSRS	Korea Array	12.65 314 S	S	04 44 19.7 -0.6
KSRS	Korea Array	12.65 314 ScP	ScP	04 49 58.8 +1.1
KSRS	Korea Array	12.65 314 ScP	ScP	05 17 30.8
KSAR	Wonju Array Be	12.67 314 P	P	04 42 03.7 +0.3
KSAR	Wonju Array Be	12.67 314 P	P	04 42 03.7 +0.3
KSAR	Wonju Array Si	12.71 314 P	P	04 42 04.0 +0.1
JKB	Kyabe	12.87 6 P	P	04 42 06.7 +1.2
JOSM	Okushiri	12.99 1 A	A	04 42 08.0
JOSM	Okushiri	12.99 1 P	P	04 42 08.1 +1.3
JOGS	Gusukube	13.20 254 A	A	04 42 12.4

JIKM	Ikemajima	13.17 255 A	A	04 42 13.2
JMJ2	Miyako jima 2	13.17 254 A	A	04 42 13.2
JMJ	Miyako jima 3	13.17 255 P	P	04 41 11.6 +2.5
JIRB	Irabujima	13.27 255 A	A	04 42 14.3
JIRB	Irabujima	13.27 255 A	A	04 42 14.3
ERM	Erimo	13.30 13 P	P	04 42 11.4 +1.3
ERM	Erimo	13.30 13 P	P	04 42 11.7 +1.5
ERM	Erimo	13.30 13 P	P	04 42 11.7 +1.5
ERM	Erimo	13.30 13 P	P	04 42 11.6 +1.5
ERM	Erimo	13.30 13 S	S	04 44 32.6 -0.4
JEM	Erimo	13.30 13 P	P	04 42 11.6 +1.4
JEM	Erimo	13.30 13 P	P	04 42 11.5 +1.4
JNB	Noribetsu	13.45 6 P	P	04 42 12.7 +0.9
JNKB	Urakawa-nobuka	13.48 11 P	P	04 42 13.7 +1.5
JNCK	Inchon	13.49 312 P	P	04 42 12.1 -0.2
JNCK	Inchon	13.49 312 P	P	04 42 12.2 -0.2
JNCK	Inchon	13.49 312 P	P	04 42 12.2 -0.2
JNCK	Inchon			





LUES	Luesalemba Tem	47.13 143	P	P	04 47 08.4 -0.2
MNSI	Mandailing Nat	47.14 241	P	P	04 47 09.1 +0.4
CMJU	Cimerak	47.17 224	P	P	04 47 07.1 -1.8
MTSU	Mount Surprise	47.18 173	P	P	04 47 09.8 +0.9
MTSU	Mount Surprise	47.18 173	P	P	04 47 09.5 +0.6
MK31	Makanchi Array	47.24 308	eP	P	04 47 09.2 +0.1
MKAR	Makanchi Array	47.24 308	P	P	04 47 09.2 +0.1
MKAR	Makanchi Array	47.24 308	P	P	04 47 09.3 +0.2
MKAR	comp-Z,337nm,0.5s,baz=85,slow=9.8,SNR=1576		PcP	P	04 48 32.5 +0.4
MKAR	comp-Z,334nm,1.0s,baz=95,slow=4.1,SNR=9.5		ScP	P	04 51 43.2 -0.4
MKAR	comp-Z,223nm,1.0s,baz=84,slow=5.2,SNR=9.5		ScP	P	05 15 22.1
MKAR	comp-Z,1.3nm,0.8s,baz=245,slow=2.6,SNR=4.4		P4K(Pbc	P	05 24 46.4
MKAR	comp-Z,2.3nm,0.8s,baz=79,slow=5.2,SNR=14		P4K(Pbc	P	04 47 09.3 +0.2
MKAR	Makanchi Array	47.24 308	iP	P	04 47 09.3 +0.2
MKAR	comp-Z,391nm,0.5s		Pmax	Pmax	
PPI	Padang Panjang	47.34 239	P	P	04 47 10.6 +0.4
BLSI	Bandar Lampung	47.36 229	P	P	04 47 09.7 -0.7
BBJ	Bungailing	47.41 225	P	P	04 47 09.1 -1.7
MDSI	Mauri tua	47.43 231	P	P	04 47 11.0 +0.2
MAKZ	Makanchi	47.46 308	P	P	04 47 11.0 +0.2
MAKZ	comp-Z,712nm,0.8s		Iamb	Iamb	
MAKZ	Makanchi	47.46 308	P	P	04 47 11.4 +0.6
MAKZ	Makanchi	47.46 308	P	P	04 47 11.2 +0.5
MAKZ	Makanchi	47.46 308	PcP	PcP	04 48 33.5 +0.6
MAKZ	Makanchi	47.46 308	ScP	ScP	04 51 42.7 -1.9
CNJI	Cibinong	47.61 226	P	P	04 47 10.3 -1.9
BSI	Banda Aceh	47.70 249	P	P	04 47 11.6 -1.4
SKJI	Sukabumi	47.74 226	P	P	04 47 11.3 -1.9
M11K	Mekoryuk	47.79 33	P	P	04 47 14.2 +1.3
M11K	comp-Z,2.2um,1.4s		Iamb	Iamb	04 47 17.3
M11K	Mekoryuk	47.79 33	P	P	04 47 14.5 +1.6
M11K	baz=254,SNR=24		S	S	04 53 39.7 +3.9
LWLI	Liwa	47.90 231	P	P	04 47 14.4 -0.2
KSI	Kapahiang	47.93 233	P	P	04 47 15.4 +0.6
CMBY	CAMPBELL BAY	47.99 252	eP	P	04 47 17.7 +2.6
CMBY	comp-Z,907nm,0.7s		IAML	IAML	04 47 19.9
CGJI	Cibinong	47.99 228	P	P	04 47 12.7 -2.4
MNAI	Manna	48.18 232	P	P	04 47 15.9 -0.7
MNAI	Manna	48.18 232	P	P	04 47 16.6 0.0
MNAI	Manna	48.18 232	P	P	04 47 16.4 -0.2
CSI	Gunungsitoli	48.37 243	P	P	04 47 18.1 +0.1
CSI	Gunungsitoli	48.37 243	P	P	04 47 18.0 0.0
CSI	Gunungsitoli	48.37 243	P	P	04 47 17.6 -0.4
JOHN	Johnston Islan	48.39 93	P	P	04 47 18.4 +0.3
JOHN	Johnston Islan	48.39 93	P	P	04 47 18.9 +0.8
JOHN	Johnston Islan	48.39 93	P	P	04 47 19.1 +1.0
KNJI	KHUNTI	48.53 276	eP	P	04 47 20.9 +1.7
TVIH	Townsville Har	48.59 171	P	P	04 47 20.3 +0.8
FITZ	Fitzroy Crossi	48.70 197	P	P	04 47 20.1 -0.3
FITZ	Fitzroy Crossi	48.70 197	P	P	04 47 20.7 +0.3
FITZ	Fitzroy Crossi	48.70 197	P	P	04 47 20.6 +0.3
FITZ	comp-Z,394nm,0.7s,baz=17,slow=8.2,SNR=268		PcP	PcP	04 48 39.5 +1.8
FITZ	comp-Z,61nm,0.6s,baz=177,slow=6.3,SNR=3.5		ScP	ScP	04 51 50.6 +0.6
FITZ	comp-Z,180nm,0.9s,baz=39,slow=2.5,SNR=6.4		ScP	ScP	04 53 47.6 -1.9
FITZ	comp-Z,44nm,1.0s,baz=112,slow=21,SNR=8.3		S	S	04 47 20.9 +0.6
FITZ	Fitzroy Crossi	48.70 197	P	P	04 47 20.7 +0.9
TNA	Tin City	48.72 26	P	P	04 47 21.1 +1.3
TNA	Tin City	48.72 26	P	P	04 47 21.1 +1.3
TNA	baz=248		S	S	04 53 50.7 +2.2
WB0	Warramunga Arr	48.78 186	P	P	04 47 20.1 -0.8
WB9	Warramunga Arr	48.80 186	P	P	04 47 20.8 -0.3
WB8	Warramunga Arr	48.83 186	P	P	04 47 21.0 -0.3
K13K	Kusilvak Mount	48.93 31	P	P	04 47 22.9 +1.5
K13K	comp-Z,1.1um,0.9s		Iamb	Iamb	04 47 25.7
K13K	Kusilvak Mount	48.93 31	P	P	04 47 23.0 +1.5
K13K	baz=254,SNR=164		S	S	04 53 53.9 +2.3
WRAB	Tennant Creek	48.95 186	P	P	04 47 21.8 -0.3
WRAB	Tennant Creek	48.95 186	iP	P	04 47 21.9 -0.3
WRAB	comp-Z,742nm,1.4s		Pmax	Pmax	
WR8	Warramunga Arr	48.95 186	P	P	04 47 21.9 -0.3
WRA	Warramunga Arr	48.96 186	P	P	04 47 21.8 -0.4
WRA	Warramunga Arr	48.96 186	P	P	04 47 21.3 -0.9
WRA	comp-Z,302nm,0.5s,baz=2.5,slow=7.7,SNR=620		PcP	PcP	04 48 40.5 +1.9
WRA	comp-Z,151nm,0.7s,baz=0.3,slow=4.5,SNR=12		ScP	ScP	04 51 51.3 +0.1
WRA	comp-Z,46nm,0.8s,baz=8.7,slow=13,SNR=6.9		S	S	04 53 48.7 -4.2
WRA	comp-Z,9.5nm,0.7s,baz=0.1,slow=4.8,SNR=73		P4K(Pbc	P	05 24 54.2
S12K	Black Hills	48.99 40	P	P	04 47 20.9 -1.2
S12K	Black Hills	48.99 40	P	P	04 47 20.9 -1.2
S12K	baz=262,SNR=22		S	S	04 53 49.6 -3.0
M13K	Dall Lake	49.17 34	P	P	04 47 24.6 +1.4
M13K	comp-Z,1.1um,1.1s		Iamb	Iamb	04 47 27.7
M13K	Dall Lake	49.17 34	P	P	04 47 25.1 +1.9
M13K	baz=257,SNR=108		S	S	04 53 58.8 +0.0
F14K	Arctic Creek	49.31 27	P	P	04 47 25.9 +1.7
F14K	baz=250,SNR=276		S	S	04 53 59.9 +3.2
PDGK	Podgornoye	49.31 304	P	P	04 47 24.6 -0.3
CTAO	Charters Tower	49.33 171	P	P	04 47 23.8 -1.2
QIS	Mount Isa	49.34 180	P	P	04 47 25.1 0.0
QIS	comp-Z,600nm,0.9s		Pmax	Pmax	
SHLS	Mount Isa	49.34 304	iP	P	04 47 23.0 -2.1
SHLS	Shalkode	49.34 304	eS	P	04 53 54.8 -3.3
SHLS	comp-Z,600nm,0.9s		Pmax	Pmax	
SHLS	Shalkode	49.34 304	iP	P	04 47 23.0 -2.1
SHLS	comp-Z,600nm,0.9s		eS	P	04 53 54.9 -3.3
ANM	Nome	49.39 28	P	P	04 47 26.0 +1.1
ANM	comp-Z,2.2um,1.5s		Iamb	Iamb	04 47 29.0
ANM	Nome	49.39 28	P	P	04 47 26.0 +1.1
ANM	comp-Z,2um,1.5s		Pmax	Pmax	
ANM	Nome	49.39 28	P	P	04 47 26.4 +1.5
ANM	baz=252,SNR=68		S	S	04 54 01.2 +3.4
J14K	Narvaranak Lak	49.64 31	P	P	04 47 28.1 +1.4
J14K	comp-Z,1.1um,1.0s		Iamb	Iamb	04 47 30.8
J14K	Narvaranak Lak	49.64 31	P	P	04 47 28.0 +1.3
J14K	baz=255,SNR=243		S	S	04 54 03.4 +2.2
UZB	Uzynbulak	49.67 304	iP	P	04 47 27.6 +0.1
UZB	comp-Z,2um,0.8s		eS	P	04 54 03.3 +0.7
UZB	Uzynbulak	49.67 304	iP	P	04 47 27.7 +0.1
UZB	comp-Z,2um,0.8s		eS	P	04 54 03.3 +0.7
L14K	Kuka Creek	49.69 32	P	P	04 47 28.5 +1.3
L14K	comp-Z,2um,1.1s		Iamb	Iamb	04 47 31.6

L14K	Kuka Creek	49.69 32	P	P	04 47 28.8 +1.7
L14K	baz=257,SNR=449		S	S	04 54 05.4 +3.4
WUS	Wushi	49.70 301	P	P	04 47 28.1 +0.4
WUS	Wushi	49.70 301	ScP	ScP	04 47 28.5 +0.8
KURK	Kurchatov	49.77 313	P	P	04 47 27.8 -0.2
KURK	comp-Z,2.2um,0.8s		Iamb	Iamb	04 47 30.4
KURK	Kurchatov	49.77 313	P	P	04 47 28.2 +0.3
KURK	Kurchatov	49.77 313	ceP	P	04 47 28.2 +0.3
KURK	comp-Z,2um,1.0s		Pmax	Pmax	
KURK	Kurchatov	49.77 313	P	P	04 47 27.9 0.0
KURBB	Kurchatov Arra	49.83 313	P	P	04 47 28.2 -0.1
KURBB	comp-Z,1.1um,0.5s,baz=91,slow=8.2,SNR=2159		PcP	PcP	04 48 42.5 +1.1
KURBB	comp-Z,62nm,0.7s,baz=96,slow=2.3,SNR=4.0		ScP	ScP	04 54 02.3 -2.0
KURBB	comp-Z,22nm,1.0s,baz=86,slow=10,SNR=4.6		P4K(Pbc	P	05 24 58.1
KURBB	comp-Z,1.8nm,0.2s,baz=95,slow=4.2,SNR=5.1		ScP	ScP	
KURBB	Kurchatov Arra	49.83 313	P	P	04 47 28.0 -0.4
SDPT	Sand Point	49.84 40	P	P	04 47 27.7 -0.7
SDPT	comp-Z,1.1um,0.8s		Iamb	Iamb	04 47 30.2
SDPT	Sand Point	49.84 40	P	P	04 47 27.5 -0.9
SDPT	Sand Point	49.84 40	P	P	04 47 27.9 -0.5
SDPT	baz=264,SNR=43		S	S	04 54 02.0 -2.3
N14K	Kuskokwak Cree	49.88 34	P	P	04 47 29.8 +1.3
N14K	Kuskokwak Cree	49.88 34	P	P	04 47 29.9 +1.4
N14K	baz=259,SNR=343		S	S	04 54 05.9 +1.3
NRIK	Noril'sk	49.88 339	P	P	04 47 28.8 +0.4
NRIK	Noril'sk	49.88 339	P	P	04 47 28.8 +0.4
NRIK	comp-Z,335nm,0.8s,baz=113,slow=8.1,SNR=299		ScP	ScP	04 51 54.0 -0.4
NRIK	comp-Z,337nm,0.9s,baz=108,slow=4.6,SNR=9.5		S	S	04 54 02.5 -1.9
NRIK	comp-Z,45nm,1.0s,baz=219,slow=23,SNR=17		P4K(Pbc	P	05 24 57.1
NRIK	comp-Z,1.6nm,0.5s,baz=116,slow=4.5,SNR=4.2		S	S	
NRIK	Noril'sk	49.88 339	iP	P	04 47 28.7 +0.2
NRIK	comp-Z,986nm,1.3s		Pmax	Pmax	
KPKS	Kokpek	49.89 304	iP	P	04 47 29.3 +0.2
KPKS	Kokpek	49.89 304	iP	P	04 47 29.4 +0.2
M14K	Bethel	49.91 33	P	P	04 47 30.1 +1.4
M14K	comp-Z,2.2um,0.9s		Iamb	Iamb	04 47 32.9
M14K	Bethel	49.91 33	P	P	04 47 30.3 +1.5
M14K	baz=258,SNR=260		S	S	04 54 08.1 +3.1
O14K	Tiguykauivert M	49.97 35	P	P	04 47 30.2 +1.0
O14K	comp-Z,2um,0.9s		Iamb	Iamb	04 47 33.4
O14K	Tiguykauivert M	49.97 35	P	P	04 47 30.4 +1.2
O14K	baz=260,SNR=318		S	S	04 54 06.8 +1.0
TDK	Taldyqorghan	49.99 306	eP	P	04 47 30.0 +0.3
TDK	comp-Z,1.1um,1.3s		Pmax	Pmax	
TDK	Taldyqorghan	49.99 306	eP	P	04 47 30.1 +0.3
F15K	North Star Dit	50.05 27	P	P	04 47 31.1 +1.4
F15K	comp-Z,1.1um,0.5s		Iamb	Iamb	04 47 33.9
F15K	North Star Dit	50.05 27	P	P	04 47 31.4 +1.6
F15K	baz=251,SNR=358		S	S	04 54 09.4 +2.7
G15K	Niukuk	50.07 28	P	P	04 47 31.2 +1.3
G15K	baz=252		S	S	04 54 09.0 +2.0
ZHN	Zhinshke	50.09 304	eP	P	04 47 30.8 +0.2
ZHN	Zhinshke	50.09 304	eP	P	04 47 30.9 +0.2
SATY	Saty	50.12 303	eP	P	04 47 31.1 +0.2
SATY	Saty	50.12 303	eS	P	04 54 09.5 +0.7
SATY	Saty	50.12 303	eS	P	04 47 31.1 +0.2
JHSG	JHARSUGUGA	50.28 275	eP	P	04 54 09.6 +3.3
JHSG	comp-Z,896nm,0.9s		Iamb	Iamb	04 47 35.9
CHNA	Chernabura Isl	50.30 41	P	P	04 47 31.2 -0.6
CHNA	Chernabura Isl	50.30 41	P	P	04 47 31.8 0.0
CHNA	baz=265,SNR=181		S	S	04 54 09.3 -1.2
CNBA	Chernabura Isl	50.30 41	P	P	04 47 31.8 0.0
CNBA	comp-Z,1.1um,0.9s		Iamb	Iamb	04 47 34.8
L15K	Ungalak Mount	50.33 32	P	P	04 47 32.9 +1.0
L15K	baz=258,SNR=245		S	S	04 54 12.9 +2.2
K15K	Wolf Creek Mou	50.44 31	P	P	04 47 33.9 +1.2
K15K	comp-Z,921nm,0.9s		Iamb	Iamb	04 47 37.0
K15K	Wolf Creek Mou	50.44 31	P	P	04 47 34.3 +1.6
K15K	baz=257,SNR=482		S	S	04 54 14.6 +2.3
S14K	Fog Glacier	50.46 39	P	P	04 47 32.4 -0.7
S14K	baz=264,SNR=23		S	S	04 54 11.8 -1.0
M15K	Kasigluk River	50.51 34	P	P	04 47 34.3 +1.0
M15K	baz=259,SNR=324		S	S	04 54 14.5 +1.3
C16K	Lisburne Hills	50.67 23	P	P	04 47 35.2 +0.9
C16K	comp-Z,2um,0.9s		Iamb	Iamb	04 47 37.7
C16K	Lisburne Hills	50.67 23	P	P	04 47 35.1 +0.9
C16K	baz=249,SNR=287		S	S	04 54 16.9 +1.7
O15K	Ungalikthiuk R	50.68 36	P	P	04 47 35.8 +1.3
O15K	Ungalikthiuk R	50.68 36	P	P	04 47 35.6 +1.1
O15K	baz=261,SNR=751		S	S	04 54 17.2 +1.5
TARG	Tarag				























CEDE	Laguna Cedeo	122.15	54	eP	PKPpdf	04 57 21.0	-1.1
ARE1	Arenal 1	122.16	54	eP	PKPpdf	04 57 21.4	-0.6
JCR1	Jicaral	122.30	55	eP	PKIKP	04 57 22.6	0.0
GMARE	Gumare	122.42	56	iP	PKIKP	04 57 24.4	+1.8
MAKGR	Makgror	122.43	256	iP	PKIKP	04 57 23.2	+0.6
SKOMA	Sekoma	122.58	54	eP	PKIKP	04 57 23.0	+0.0
TRT2	Tortugero	122.78	53	eP	PKPpdf	04 57 22.0	-1.2
XAUDIM	Xaudim	122.81	266	iP	PKIKP	04 57 25.4	+1.9
BELE	Belen	122.87	54	eP	PKIKP	04 57 23.8	0.0
HDC	Heredia	122.90	54	eP	PKIKP	04 57 23.0	-0.1
BOSA	Boshoft	122.93	253	iP	PKIKP	04 57 23.5	0.0
comp=Z,54nm,0.8s,baz=79,slow=1.5,SNR=54							
BOSA	Boshoft	122.93	253	iP	PKKPBcb	05 07 16.5	+0.1
comp=Z,50nm,1.0s,baz=226.3,slow=2.9,SNR=25							
BOSA	Boshoft	122.93	253	iP	PKIKP	04 57 24.4	+0.9
GCOSA	Goshoft	122.93	253	iP	PKIKP	04 57 24.4	+1.2
PILE	Guapiles	122.96	53	eP	PKIKP	04 57 24.5	+0.6
CVIMO	Finca Echandi	123.01	54	eP	PKPpdf	04 57 23.2	-0.7
ACOS	Acosta	123.01	54	eP	PKIKP	04 57 24.3	+0.2
PAR1A	Puntarenas Pro	123.08	54	eP	PKIKP	04 57 24.5	+0.4
PICV	PH Pirras	123.10	54	eP	PKIKP	04 57 24.6	+0.4
CVTR	Volcan Turrial	123.14	53	eP	PKPpdf	04 57 24.1	-0.3
VTLA	Volcan Licanc	123.14	53	eP	PKPpdf	04 57 23.9	-0.5
VTR0	Volcan Turrial	123.14	53	eP	PKPpdf	04 57 24.0	-0.4
CVTO	Turrialba Volc	123.14	53	eP	PKPpdf	04 57 23.9	-0.5
ABR2	San Pablo	123.15	54	eP	PKPpdf	04 57 24.4	+0.4
LCRZ	La Lucha 2	123.16	54	eP	PKPpdf	04 57 22.7	-1.5
LBRR	Las Abades (San	123.19	53	eP	PKPpdf	04 57 23.8	-0.5
VTCV	VTCV, Calle Va	123.19	53	eP	PKPpdf	04 57 23.8	-0.5
REJ	San Isidro (Tu	123.21	53	eP	PKIKP	04 57 24.5	+0.1
PIEC	Cerro El Cedra	123.28	54	eP	PKIKP	04 57 24.6	+0.1
ONGWA	Qangwa	123.34	265	iP	PKIKP	04 57 26.2	+1.7
KGCAE	Kagcaes	123.36	231	iP	PKIKP	04 57 25.9	+1.9
SAJE	San Jernim	123.78	54	eP	PKPpdf	04 57 25.4	+0.1
EDPE	Pejibayes, P	123.87	54	eP	PKIKP	04 57 25.6	+0.1
PHPEN	Phenepeng	123.94	257	iP	PKIKP	04 57 26.4	+0.8
GRTLZ	Ghangzi	123.98	263	iP	PKIKP	04 57 27.3	+1.6
CEUA	Cerro Uatsi, L	123.99	53	eP	PKIKP	04 57 26.3	+0.3
FMIO	Fila Mora	124.01	54	eP	PKIKP	04 57 26.7	+0.4
EDAD	Golfito	124.01	54	eP	PKIKP	04 57 27.7	+0.7
ALCO	Alturas Coton,	124.54	54	eP	PKPpdf	04 57 26.1	-0.7
NELY	Ciudad Nelly	124.67	54	eP	PKIKP	04 57 28.2	+1.0
SCZRO	Santa Cruz, Re	124.80	54	eP	PKIKP	04 57 28.0	+0.4
CLLR	Cordillera, La	124.83	54	eP	PKPpdf	04 57 27.7	+0.1
BOTLV	Boquete Panama	125.03	53	eP	PKPpdf	04 57 27.4	+0.1
KKNTU	Kakinté	125.33	53	eP	PKPpdf	04 57 24.9	-0.3
KOOLE	Kule	125.44	261	iP	PKIKP	04 57 30.1	+1.4
RMDIO	Remedios, Chir	125.75	53	eP	PKIKP	04 57 29.6	+0.2
ISCEA	Islas Secas	125.78	54	eP	PKPpdf	04 57 28.6	-0.4
CVEJO	Cerro Viejo	126.01	54	eP	PKPpdf	04 57 29.7	+0.9
TSUM	Tsumeb	126.35	267	iP	PKPpdf	04 57 30.1	0.0
BCIP	Isla Barro Col	126.45	51	eP	PKPpdf	04 57 28.8	-1.4
AOPR	Arencibia Observ	126.58	31	eP	PKPpdf	04 57 28.6	-1.8
ZANG	Zanguendo, Cho	126.58	51	eP	PKPpdf	04 57 29.1	-1.4
CAZU	Cerro Azul, Pa	126.69	50	eP	PKPpdf	04 57 29.0	-1.9
SJG	San Juan	127.06	31	iP	PKPpdf	04 57 30.1	-1.2
comp=Z,31nm,0.6s,baz=82,slow=0.9,SNR=21							
AZU	Azuro	127.14	52	eP	PKPpdf	04 57 30.5	-1.1
SKI	Saint Kitts	129.20	28	eP	PKPpdf	04 57 29.6	-5.9
NVL	N'zareevskaya	129.23	200	ePKIKP	PKPpdf	04 57 34.0	+0.2
comp=Z,113nm,0.8s							
ANWB	Willy Bob	129.28	26	eP	PKPpdf	04 57 28.8	-6.7
ANBD	Bethesda, Anti	129.85	27	eP	PKPpdf	04 57 36.3	-0.3
MBFL	Flemmings, Mon	129.84	27	eP	PKPpdf	04 57 36.4	-0.5
MLYT	Lee's Yard	130.46	30	eP	PKPpdf	04 57 37.4	-0.6
DBIC	Dimbokro	130.46	30	eP	PKKPK	04 57 37.4	-0.6
comp=Z,3.3nm,0.5s,baz=71,slow=3.1,SNR=5.8							
DBIC	DBIC	130.46	30	eP	PKPpdf	04 57 37.4	-0.5
comp=Z,35nm,0.6s,baz=76,slow=2.2,SNR=17							
DBIC	DBIC	130.46	30	eP	SKPBcb	05 00 19.2	-0.8
comp=Z,446nm,1.0s,baz=52,slow=3.7,SNR=30							
DBIC	Dimbokro	130.46	30	eP	PKPpdf	04 57 37.9	0.0
H05N1	Gadeloupe/Mar	130.79	26	eP	PKPpdf	04 57 38.5	0.0
SNR=20							
TROLL	Troll, Antarti	131.11	196	iP	PKIKP	04 57 39.0	+0.4
comp=Z,6um,0.7s							
DWS	Wesley	131.37	27	eP	PKPpdf	04 57 32.6	-0.9
DSLB	Salisbury	131.44	27	eP	PKPpdf	04 57 37.0	-2.7
MDN	Morne-Daniel	131.56	27	eP	PKPpdf	04 57 39.0	-0.9
DLPL	La Pléiade	131.58	28	eP	PKPpdf	04 57 39.9	+6.8
SVN	Savane Anoltes	132.09	27	eP	PKPpdf	04 57 40.4	-0.6
BIM	Bigot	132.42	27	eP	PKPpdf	04 57 41.8	+0.2
SDV	Santo Domingo	132.50	42	eP	PKPpdf	04 57 41.9	-0.1
SDV	Santo Domingo	132.50	42	eP	SKPBcb	05 00 26.9	-0.6
comp=Z,148nm,0.8s,baz=319,slow=2.9,SNR=7							
SDV	Santo Domingo	132.50	42	eP	PKPpdf	04 57 42.2	+0.2
SNA	Sanae	132.62	195	iP	PKIKP	04 57 41.4	-0.2
comp=Z,1um,0.8s							
SNA	Sanae	132.62	195	iP	PKKPK	04 57 25.0	0.0
comp=Z,20nm,0.7s,baz=219,slow=6.5,SNR=50							
SNA	Sanae	132.62	195	iP	PKPpdf	04 57 40.3	-0.1
comp=Z,43nm,0.8s,baz=170,slow=2.0,SNR=17							
SNA	Sanae	132.62	195	iP	SKPBcb	05 00 25.4	-0.5
comp=Z,384nm,0.7s,baz=176,slow=4.7,SNR=8							
SLBI	Saint Lucia, B	132.90	27	eP	PKPpdf	04 57 43.0	+0.5
ROSC	El Rosal	133.32	49	eP	PKKPK	04 57 31.6	0.0
comp=Z,31nm,1.0s,baz=307,slow=22,SNR=11							
ROSC	El Rosal	133.32	49	eP	PKPpdf	04 57 41.9	-1.9
comp=Z,33nm,0.8s,baz=90,slow=4.0,SNR=11							
ROSC	El Rosal	133.32	49	eP	SKPBcb	05 00 29.2	-1.3
comp=Z,130nm,1.0s,baz=335,slow=8.9,SNR=7.6							
SVB	Beimont	133.47	28	eP	PKPpdf	04 57 38.9	-0.4
SVT	Saint Vincent	133.56	28	eP	PKPpdf	04 57 36.3	-7.4
D1AV	Davao	133.58	28	eP	PKP	04 57 39.9	+0.2
BAUV	Ei Baul	133.93	39	eP	PKPpdf	04 57 40.6	-3.9
VNA2	Neumayer-Watz	134.18	195	iP	PKPpdf	04 57 43.5	+0.3
comp=Z,135nm,0.6s,baz=127,slow=1.5							
BGGH	Gunn Hill	134.26	26	eP	PKPpdf	04 57 45.5	+0.5
VNA3	Neumayer Oyma	134.42	194	iP	PKPpdf	04 57 44.3	+0.6
comp=Z,112nm,0.8s							
VNA1	Neumayer-Stat	134.58	195	iP	PKIKP	04 57 44.8	-0.6
comp=Z,137nm,1.0s							
PCRV	Puerto Larc	134.67	34	eP	PKKPK	04 57 33.8	0.0
comp=Z,6.3nm,0.6s,baz=334,slow=2.5,SNR=8.9							
PCRV	Puerto Larc	134.67	34	eP	PKP	04 57 44.4	-1.5
comp=Z,24nm,0.6s,baz=297,slow=1.4,SNR=14							
PCRV	Puerto Larc	134.67	34	eP	SKPBcb	05 00 32.9	-1.5
comp=Z,56nm,0.6s,baz=37,slow=4.7,SNR=3.4							
TPR	Prospect	135.54	29	eP	PKPpdf	04 57 47.7	+0.7
TRN	Trinidad (W)	135.75	30	eP	PKPpdf	04 57 47.6	-0.2
TRP	Pointe-a-Pierre	136.03	30	eP	PKPpdf	04 57 40.8	-7.5
TRH	Brigand Hill	136.05	30	eP	PKPpdf	04 57 48.5	+0.1
ATAH	Atahualpa	136.33	66	eP	PKKPK	04 57 44.1	0.0
comp=Z,30nm,0.7s,baz=292,slow=0.4,SNR=14							
ATAH	Atahualpa	136.33	66	eP	PKIKP	04 57 54.6	-0.8
comp=Z,89nm,0.9s,baz=356,slow=2.4,SNR=12							
ATAH	Atahualpa	136.33	66	eP	SKPBcb	05 00 45.5	-0.3
comp=Z,305nm,1.0s,baz=308,slow=2.7,SNR=10							
PMSA	Palmer Station	141.37	164	eP	PKKPK	04 57 50.4	0.0
comp=Z,22nm,0.8s,baz=133,slow=0.8,SNR=5.1							
PMSA	Palmer Station	141.37	164	eP	SKPBcb	05 00 50.3	-1.3
comp=Z,53nm,0.9s,baz=99,slow=5.6,SNR=4.6							
SGC2	Sao Gabriel da	141.85	46	eP	PKPpdf	04 57 54.1	-4.9
NNA	Nana	142.34	71	eP	PKKPK	04 57 55.1	0.0
NNA	Nana	142.34	71	eP	PKKPK	04 57 55.2	0.0
comp=Z,263nm,0.6s,baz=310,slow=4.3,SNR=85							
NNA	Nana	142.34	71	eP	SKPBcb	05 00 55.3	-0.4
comp=Z,317nm,0.9s,baz=321,slow=5.6,SNR=17							
NNA	Nana	142.34	71	eP	PKPpdf	04 57 55.1	-4.7
TBTG	Tabatinga, AM	142.88	54	eP	PKPpdf	04 57 55.5	-0.8
CZSB	Cruzreiro do Su	143.18	61	eP	PKPpdf	04 57 57.9	-0.2
BOAV	Boa Vista	143.41	35	eP	PKPpdf	04 57 58.3	-0.2
BOAV	Boa Vista	143.41	35	eP	SKPBcb	05 01 00.3	+0.7
MDP	Montagnes des	144.15	21	eP	SKPBcb	05 01 00.3	+0.7
comp=Z,348nm,1.0s,baz=352,slow=1.1,SNR=16							
TEFE	Tefe	145.91	46	eP	PKPpdf	04 58 06.1	+0.1
MG04	Isia Riesco	145.91	46	eP	PKPpdf	04 58 11.9	-0.5
H03N2	Juan Fernandez	147.7	107	eP	PKPbc	04 58 10.0	-0.2
comp=Z,168,slow=16,SNR=10							
H03N3	Juan Fernandez	147.18	107	eP	PKPbc	04 58 10.1	-0.1
comp=Z,168,slow=16,SNR=16							
H03N1	Juan Fernandez	147.19	107	eP	PKPbc	04 58 09.9	-0.2
comp=Z,168,slow=16,SNR=8.3							
H03S2	Juan Fernandez	147.19	108	eP	PKPbc	04 58 13.3	0.0
SNR=5.9							
H03S3	Juan Fernandez	147.20	108	eP	PKKPK	04 58 12.5	+0.5
SNR=5.7							
H03S1	Juan Fernandez	147.21	108	eP	PKKPK	04 58 11.7	-0.4
SNR=8.1							
USHA	Ushuaia	147.42	150	eP	PKPbc	04 58 08.1	+0.9
comp=Z,14nm,0.7s,baz=324,slow=6.3,SNR=3.0							
USHA	Ushuaia	147.42	150	eP	SKPBcb	05 01 05.6	-0.4

comp=Z,179nm,0.8s,baz=223,slow=1.9,SNR=8.6							
ASCN	Ascension	147.49	305	eP	PKPpdf	04 58 09.8	+1.1
H103	ASCENSION HYDRM7	150.35	305	eP	PKPbc	04 58 13.9	+0.7
comp=Z,66,slow=2.7,SNR=5.8							
H10N1	ASCENSION HYDRM7	150.35	305	eP	PKPbc	04 58 13.3	+0.1
comp=Z,68,slow=2.7,SNR=7.0							
H10N3	ASCENSION HYDRM7	150.35	305	eP	PKPbc	04 58 14.0	+0.7
comp=Z,68,slow=2.7,SNR=7.9							
MACA	Macapagu-AM	149.49	40	eP	PKP	04 58 09.6	+0.1
H10S2	ASCENSION HYDRM9	150.35	304	eP	PKPbc	04 58 15.2	+0.1
comp=Z,68,slow=2.7,SNR=11.1							
H10S3	ASCENSION HYDRM8	140.44	304	eP	PKPbc	04 58 15.4	+0.2
comp=Z,347,slow=74,SNR=7.2							
LABB	Labbe	149.44	45	eP	PKPpdf	04 58 11.8	0.0
MAL2	Monte Alegre,	150.20	28	eP	PKPpdf	04 58 13.8	-0.8
SAML	Samuel	150.93	51	eP	PKPpdf	04 58 13.9	-0.2
SAML	Samuel	150.93	51	eP	PKKPK	04 58 13.9	-0.2
ITTB	Itaituba	151.60	33	eP	PKPpdf	04 58 15.6	+0.5
LPAZ	La Paz	151.77	69	eP	PKPpdf	04 58 16.6	+0.6
comp=Z,30nm,0.9s,baz=354,slow=3.0,SNR=74							
LPAZ	La Paz	151.77	69	eP	PKKPK	04 58 23.4	+0.3
comp=Z,423nm,0.9s,baz=354,slow=2.7,SNR=148							
LPAZ	La Paz	151.77	69	eP	PKPbc	04	

Table with columns: TPIG Tehuacan, JAUUV Jalcomulco, FTIG Fresnillo de T, etc. Includes station names, coordinates, and time/res data.

Table with columns: SCLA Alcadia de Sa, SLO Alcadia de Sa, SLOZ Alcadia de Sa, etc. Includes station names, coordinates, and time/res data.

Table with columns: RATZ Rangitukua, DVHZ Danverick, MOVZ Moanwhango, etc. Includes station names, coordinates, and time/res data.

MEX 04:04:59:56.0,0.6,16.87N:98.79W,h43km,6km,MD4.0, Near coast of Guerrero

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists various stations like CRIG Cruz Grande, MGIG Malinaltepec, etc.

IDC 04:05:39:33.4,2.8,32.74N:139.81E,h0km,mb3.6/4, mbmp3.5/5,ML2.5/1, Error ellipse: s-maj=109.8km

JMA 04:05:39:33.0,0.3,33.4N:0.9:14.1E, h60km,MV3.3/1,E OFF HACHUJIMA ISLAND

ISC 04:05:39:33.6:1.4,33.32N:0.08:141.5E:0.1,h41km,m13, c0888/16,mb3.7/4,Off east coast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists stations like BSO1 Boso 1, JUJ2 Mitsune, etc.

ASAR Alice Springs 57.12 188 P P 05 49 16.4 +0.3

WEL 04:05:53:42.9:1.4,38.5S:3.176E,h7km,7km,M1.8/7, ML2.2/7,MLV1.8/7, Error ellipse: s-maj=3.9km

s-min=3.3km az=110.5, confirmed, North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists stations like WPRZ Whakapapatarin, WPRZ Whakapapatarin, etc.

NOU 04:05:53:49.6,39.15S:178.95E,h38km,MLV4.3/16, Off E. Coast of N. Island, N.Z.

IDC 04:05:53:49.7:1.1,38.70S:178.61E,h0km,mb4.1/3, mbmp4.1/3, Error ellipse: s-maj=43.9km s-min=21.4km

WEL 04:05:53:52.5:0.8,39.54S:177.9E,h33km,6km,M4.1/72, ML4.4/16,MLV4.1/72, Error ellipse: s-maj=7.9km

s-min=5.1km az=100.6, confirmed

ISC 04:05:53:48.5:1.9,39.08S:0.04:178.79E:0.06,h14km,10km, n131,c1445/134,mb4.0/3,Off east coast of North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists stations like MHGZ Mahia Peninsula, GKBZ Kaiti Beach, etc.

RSNC 04:05:54:28.8:0.0,5N:17.7W,h33km,8km,M3.6,mb3.9,

UPA 04:05:54:29.5:1.0,5.22N:78.38W,h0km,48km,MW5.0

VAO 04:05:54:33.8:0.8,4.54N:77.63W,h0km,mb4.4

IDC 04:05:54:36.5:2.3,5.03N:77.96W,h76km,22km,mb3.4/10, mbmp3.9/14, Error ellipse: s-maj=20.2km s-min=13.5km

ISC 04:05:54:27.4:1.4,9.99N:0.03:78.24W:0.03,h9km,26km, n82,c2444/118,mb3.7/10,South of Panama

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists stations like MALC Bahia Malaga, SOLC Bahia Solano, etc.

SNET 04:05:39:19.9:1.2,13.13N:89.55W,h54km,17km,ML3.4

CATAC 04:05:39:19.8:0.5,13.13N:89.0W,h28km,2km,M3.4/24, MLV3.4/24, Error ellipse: s-maj=6.1km s-min=3.5km

CGC 04:05:39:20.5:0.9,13.14N:89.69W,h34km,7km,MD3.6

ISC 04:05:39:14.6:2.0,12.84N:0.08:89.58W:0.05,h14km,10km, n71,c1923/78,Off coast of central America

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Lists stations like LALI Alcadia de L, JAYA Jayaque - finc, etc.



4d 6h

Table with columns: ID, Name, Az, El, P, S, R, Az, El, P, S, R. Includes entries like Q18K Katmai Hardscr, O16K Kokwok River B, P17K Kvichak River, etc.

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Table with columns: ID, Name, Az, El, P, S, R, Az, El, P, S, R. Includes entries like SUA Susitna One, VTX Valle De La Tr, L20K Farewell, AK, etc.

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Table with columns: ID, Name, Az, El, P, S, R, Az, El, P, S, R. Includes entries like N25K Chitina, Valde, I20K Naaghedeneel, I20K Naaghedeneel, etc.



HDA	Harding Lake	86.64	16	Iamb	Iamb	06 37 15.4
HDA	Harding Lake	86.64	16	P	P	06 37 13.4 -1.1
YUK6	Outpost Mounta	86.69	21	P	P	06 37 14.2 -1.0
RIDG	Independent Ri	86.70	17	Iamb	Iamb	06 37 15.9
RIDG	Independent Ri	86.70	17	P	P	06 37 14.5 -0.4
H22K	Ishaitina Cre	86.76	14	P	P	06 37 14.2 -0.9
SKAG	Skagway	86.79	24	P	P	06 37 15.7 +0.4
G21K	Allakaket	86.82	13	P	P	06 37 15.4 +0.1
F20K	Avaraat Lake	86.83	12	P	P	06 37 15.6 +0.2
C17K	DeLong Mountai	86.88	8	P	P	06 37 15.7 +0.1
YUK4	Talbot Arm	86.88	21	P	P	06 37 15.8 -0.2
BVCY	Beaver Creek	86.91	20	P	P	06 37 15.6 -0.4
E19K	Redstone River	86.91	11	P	P	06 37 16.3 +0.5
HYT	Haines Junctio	86.91	22	P	P	06 37 15.7 -0.4
ILAR	Eielson Array	86.95	16	P	P	06 37 14.6 -1.4
ILAR	Eielson Array	86.95	16	P	P	06 37 14.3 -1.7
ILAR	comp-Z,5.2nm,1.0s,baz=236,slow=5.6,SNR=39	LR	LR	LR	LR	07 09 08.7
ILAR	comp-Z,391nm,22.0s,baz=214,slow=31	LR	LR	LR	LR	
ILAR	Eielson Array	86.95	16	P	P	06 37 14.6 -1.4
LTY	Liberty	86.97	39	Iamb	Iamb	06 37 18.1
L27K	Beaver Creek	87.08	19	P	P	06 37 16.2 -0.6
POKR	Poker Plat Res	87.08	16	P	P	06 37 15.5 -1.2
G08A	Pilot Rock	87.09	41	P	P	06 37 17.8 +0.4
G08A				Iamb	Iamb	06 37 19.2
SCRK	Sand Creek	87.12	17	P	P	06 37 16.5 -0.6
H23K	Yukon River	87.13	14	P	P	06 37 16.9 0.0
J25K	Salcha River	87.23	17	P	P	06 37 17.1 -0.4
T35M	Bob Quinn	87.30	27	P	P	06 37 18.1 +0.2
C18K	Utukok River	87.32	9	Iamb	Iamb	06 37 19.4
C18K	Utukok River	87.32	9	P	P	06 37 17.4 -0.4
O30N	Mendenhall	87.38	22	P	P	06 37 17.8 -0.4
ULN	Ulaanbaatar	87.41	322	Iamb	Iamb	06 37 19.2 +0.3
ULN	Ulaanbaatar	87.41	322	P	P	06 37 19.2 +0.3
F21K	Alatna River	87.43	12	P	P	06 37 17.9 -0.4
LCMT	Little Creek M	87.45	50	Iamb	Iamb	06 37 21.6
SPR3	Spring Creek 3	87.46	48	Iamb	Iamb	06 37 21.4
S34M	Telegraph Cree	87.49	26	Iamb	Iamb	06 37 20.7
S34M	Telegraph Cree	87.49	26	P	P	06 37 19.5 +0.8
N30M	Aishikik Lake	87.50	21	P	P	06 37 19.2 +0.4
P32M	Atlin	87.50	24	P	P	06 37 18.9 +0.1
TUC	Tucson	87.52	55	Iamb	Iamb	06 37 21.0 +1.3
TUC	Tucson	87.52	55	P	P	06 37 22.3
ELK	Elko	87.54	46	Iamb	Iamb	06 37 21.8
ELK	Elko	87.54	46	LR	LR	07 08 23.5
ELK	Elko	87.54	46	P	P	06 37 20.4 +0.6
H24K	Noodor Dome	87.54	15	P	P	06 37 19.1 +0.1
G22K	Bettles	87.59	13	P	P	06 37 19.5 +0.5
PSUT	Pine Spring	87.61	49	Iamb	Iamb	06 37 22.2
J26L	Joseph Creek	87.64	17	P	P	06 37 19.1 -0.4
Q32M	Nakina River	87.67	25	P	P	06 37 19.7 -0.1
PMSA	Palmer Station	87.67	159	LR	LR	07 09 41.6
D19K	Kuna River	87.68	10	P	P	06 37 19.7 +0.2
M29M	Somme Creek	87.71	20	P	P	06 37 19.2 -0.7
K27K	Chicken	87.72	18	P	P	06 37 19.9 +0.1
G23K	Bananza Creek	87.75	14	P	P	06 37 19.8 -0.1
WHY	Whitehorse	87.75	23	P	P	06 37 19.8 -0.3
S0NM	Songino Array	87.78	322	P	P	06 37 20.2 -0.4
S0NM	Songino Array	87.78	322	P	P	06 37 19.6 -1.1
S0NM	comp-Z,3.7nm,1.0s,baz=116,slow=36	LR	LR	LR	LR	07 16 44.2
S0NM	Songino Array	87.78	322	P	P	06 37 20.2 -0.4
S0NM				P	P	
X16A	Lo Mia Camp	87.80	53	Iamb	Iamb	06 37 23.6
E20K	Nigu River	87.81	11	P	P	06 37 20.2 0.0
PRP	Porcupine Dome	87.89	16	P	P	06 37 20.7 -0.1
B18K	Kokolik River	87.89	9	P	P	06 37 20.7 +0.3
U15A	North Rim	87.92	51	Iamb	Iamb	06 37 24.4
BMO	Blue Mountains	87.94	42	Iamb	Iamb	06 37 23.2
F22K	John River	87.94	13	P	P	06 37 21.1 +0.3
N31M	Braeburn, Yuko	87.98	22	P	P	06 37 20.5 -0.6
C19K	Lookout Ridge	87.99	9	P	P	06 37 20.7 -0.3
D20K	Etivluk River	88.13	11	Iamb	Iamb	06 37 23.3
D20K	Etivluk River	88.13	11	P	P	06 37 21.4 -0.3
COLD	Coldfoot	88.13	13	P	P	06 37 21.6 0.0
SYO	Syowa Base	88.17	1951	eP	eP	06 37 22.2 +0.2
SYO	Syowa Base	88.17	1951	eP	eP	06 37 27.5 -1.7
P33M	Teslin, Yukon	88.24	24	P	P	06 37 22.3 -0.1
WUAZ	Wupatki	88.26	52	Iamb	Iamb	06 37 25.7
DLBC	Dease Lake	88.27	26	Iamb	Iamb	06 37 23.6
DLBC	Dease Lake	88.27	26	P	P	06 37 22.0 -0.6
DLBC	comp-Z,2.7nm,0.9s,baz=167,slow=6.7,SNR=5.0	LR	LR	LR	LR	07 08 22.5
DLBC	Dease Lake	88.27	26	P	P	06 37 22.5 -0.1
L29M	L29M	88.29	20	P	P	06 37 22.2 -0.3
B08A	Colville Reser	88.29	38	Iamb	Iamb	06 37 24.2
G24K	Hadweenczi Riv	88.33	15	P	P	06 37 22.3 -0.3
I26K	Coal Creek Min	88.37	17	P	P	06 37 22.3 -0.5

319A	Douglas	88.38	57	Iamb	Iamb	06 37 26.4
E21K	Killik River	88.38	12	P	P	06 37 22.7 -0.2
H25L	Birch Creek	88.40	15	P	P	06 37 22.9 0.0
GTA	Gaotai	88.43	312	pP	pP	06 37 25.2 +1.3
GTA				pP	pP	06 37 28.6 -2.5
GTA				pmax	pmax	
R33M	Jennings River	88.47	25	P	P	06 37 23.9 +0.4
E22K	Anaktuvuk Pass	88.54	12	P	P	06 37 24.0 +0.4
DAWY	Dawson	88.56	19	P	P	06 37 22.8 -1.0
N32M	Quiet Lake	88.74	23	P	P	06 37 24.3 -0.5
A19K	Wainwright	88.77	8	P	P	06 37 25.0 +0.5
MVU	Marysvalde	88.78	49	Iamb	Iamb	06 37 28.6
C21K	Kniefeldm 1.5s	88.84	11	P	P	06 37 25.2 +0.3
PLID	Pearl Lake	88.87	42	Iamb	Iamb	06 37 27.5
F24K	Squaw Lake	88.89	14	P	P	06 37 25.3 0.0
E23K	Chandalar	88.94	13	P	P	06 37 25.0 -0.6
M31M	Drury Creek, Y	88.95	22	P	P	06 37 25.6 -0.1
X18A	Snoflake	88.98	53	Iamb	Iamb	06 37 29.2
K29M	Barlow Dome	88.99	20	P	P	06 37 25.8 -0.1
D22K	Alayak River	89.00	12	P	P	06 37 25.9 +0.2
DUG	Dugway, Tooele	89.01	47	P	P	06 37 27.4 +0.8
I27K	Kandik River	89.02	17	P	P	06 37 26.1 +0.1
BGU	Big Grassy Mou	89.15	47	Iamb	Iamb	06 37 29.4
B20K	Mesa River	89.18	10	P	P	06 37 26.8 +0.2
E24K	Your Creek	89.21	13	P	P	06 37 26.4 -0.4
HLID	Hailey	89.27	44	Iamb	Iamb	06 37 30.2
B21K	Ikpiuk River	89.28	11	P	P	06 37 27.0 +0.1
FARO	Faro, Yukon	89.34	22	P	P	06 37 27.0 -0.4
I28M	Miner Creek	89.39	18	P	P	06 37 27.8 +0.1
TOLK	Toolik Lake Re	89.43	13	P	P	06 37 27.8 0.0
G26K	Porcupine Riv	89.45	16	P	P	06 37 27.3 -0.5
D23K	Nanushuk River	89.47	12	P	P	06 37 27.7 -0.2
F25K	Ogilvie River	89.48	15	P	P	06 37 28.0 -0.1
H27K	Steamboat Moun	89.51	17	P	P	06 37 27.7 -0.5
NEW	Newport	89.56	39	P	P	06 37 28.9 0.0
NEW	Newport	89.56	39	LR	LR	07 09 49.7
NEW	Newport	89.56	39	P	P	06 37 28.9 0.0
NEW				pmax	pmax	
HMU	Henry Mountain	89.64	50	Iamb	Iamb	06 37 31.8
TMUT	Trail Mountain	89.81	49	Iamb	Iamb	06 37 33.2
I29M	Ogilvie Camp	89.81	18	P	P	06 37 29.0 -0.6
HPIG	Happy Valley	89.84	62	Iamb	Iamb	06 37 33.3
J30M	Hart River	89.88	19	P	P	06 37 29.9 -0.2
G27K	Doyon Strip	89.90	16	P	P	06 37 30.1 +0.1
E25K	Arctic Village	89.91	14	P	P	06 37 29.8 -0.2
F26K	Sheenjek River	89.92	15	P	P	06 37 30.0 -0.1
D24K	Happy Valley	90.01	13	P	P	06 37 29.8 -0.6
B22K	Teshpuk Lake	90.11	11	P	P	06 37 30.7 -0.1
JLU	Jordanelle	90.13	47	Iamb	Iamb	06 37 34.1
C23K	Hiklik River	90.21	12	P	P	06 37 31.0 -0.3
SRU	San Rafael Swe	90.23	49	Iamb	Iamb	06 37 34.5
I30M	Mount Dempster	90.30	19	P	P	06 37 31.2 -0.9
MMPY	Sheldon Lake	90.34	22	P	P	06 37 31.9 -0.3
TCUT	Toone Canyon	90.35	47	Iamb	Iamb	06 37 35.2
H29M	Whitestone	90.39	18	Iamb	Iamb	06 40 08.8
H29M	Whitestone	90.39	18	P	P	06 37 31.8 -0.5
A22K	Sinclair Lake	90.41	10	P	P	06 37 32.2 0.0
C24K	Franklin Bluff	90.50	12	P	P	06 37 32.3 -0.4
LIRD	Liat River Hi	90.50	26	P	P	06 37 33.3 +0.4
TOAD	Toad River Com	90.56	27	P	P	06 37 33.0 0.0
BSUT	Blindstream Ca	90.59	48	Iamb	Iamb	06 37 36.4
D25K	Kavik River	90.67	13	P	P	06 37 33.4 -0.2
ZAK	Zakamensk	90.77	323	eP	eP	06 37 33.7 -0.8
ZAK				pmax	pmax	
GOMU	GeErMu	90.92	308	P	P	06 37 36.8 +0.9
GOMU				pP	pP	06 37 39.1 +2.2
GOMU				pmax	pmax	
E27K	Coleen River	90.93	15	P	P	06 37 35.1 +0.3
G29M	Pine Creek	90.98	17	P	P	06 37 34.7 -0.3
EPYK	Eagle Plains	90.98	18	P	P	06 37 34.3 -0.8
TROLL	Troll, Antarti	91.04	183	IP	IP	06 37 34.2 -1.4
MVCO	Mesa Verde	91.04	51	Iamb	Iamb	06 37 38.4
PV17	East Wray Mesa	91.07	50	Iamb	Iamb	06 37 38.4
PV16	Nyswonger Mesa	91.12	50	Iamb	Iamb	06 37 38.7
PV13	Radom Mt	91.13	50	Iamb	Iamb	06 37 38.7
PV03	Paradox Valley	91.15	50	Iamb	Iamb	06 37 38.7
Y22D	Bliss PASCAL 1	91.18	55	P	P	06 37 36.0 -0.9
DLMT	Dillon	91.18	43	Iamb	Iamb	06 37 38.7
PV01	Paradox Valley	91.31	51	Iamb	Iamb	06 37 39.5
H31M	Peel River	91.32	19	P	P	06 37 36.9 +0.3
BEAVL	Fort Llard	91.36	26	P	P	06 37 37.2 +0.3
PV07	Paradox Valley	91.36	50	Iamb	Iamb	06 37 39.8
C26K	Campen Bay	91.46	13	P	P	06 37 37.3 +0.2
C27K	Jag River	91.50	14	P	P	06 37 37.7 +0.3
G30M	tAoh Zraii Nji	91.54	18	P	P	06 37 37.9 +0.2
SNA4	Sanae	91.56	181	IP	IP	06 37 35.3 -2.6
SNA4	Sanae	91.56	181	P	P	06 37 38.0 +0.1
SNA4				Iamb	Iamb	06 38 14.5

SNA4	Sanae	91.56	181	P	P	06 37 38.2 +0.2
SNA4				LR	LR	07 16 23.5
SNA4	Sanae	91.56	181	eP	eP	06 37 37.1 -0.8
SNA4				pmax	pmax	
MNTX	Cornudas Mount	91.62	57	Iamb	Iamb	06 37 40.9
VHRN	Van Horn	91.65	58	Iamb	Iamb	06 37 41.4
SNOW	Snow King Moun	91.68	45	Iamb	Iamb	06 37 41.3
KOTAN	Kotanelee Air	91.76	26	P	P	06 37 38.9 +0.2
E28M	Babbage River	91.76	16	P	P	06 37 38.4 -0.2
ANMO	Albuquerque	91.83	54	P	P	06 37 40.5 +0.6
ANMO				Iamb	Iamb	06 37 41.8
ANMO	Albuquerque	91.83	54	LR	LR	07 10 30.7
ANMO	Albuquerque	91.83	54	P	P	06 37 40.6 +0.6
ANMO				pmax	pmax	
D27M	Malcolm River	91.87	15	P</		

Table of seismic events with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes events like Manzenberg, Rotzenmühle, Cesky Krumlov, etc.

Table of seismic events with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes events like ZALV, KURK, KURB, etc.

Table of seismic events with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes events like BSO1, JIE, JTN, etc.

ASRS 04 06:46:49.0±1.4, 53.72N;91.07E, h0km, M3.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ASRS 04 06:54:46.3±3.5, 53.92N;90.59E, h12km, 16km, mb3.7, mvp3.5, Error ellipse: s-maj=28.2km s-min=20.2km az=23.0, Suspected Mining explosion.

ASRS 04 06:54:14.0±0.5, 53.64N;90.83E, h0km, mbtm3.0, M3.1/4, Error ellipse: s-maj=42.4km s-min=23.4km az=51.0.



Table with columns: KPT, KBTR, BKI, BKR, BKN, SMY, SMY, YSS, M14K, TIXI, TIXI, TIXI, N18K, N19K, J19K, D20K, D20K, G21K, G21K, H21K, H21K, E22K, E22K, SML, WRH, CCB, DHY, DHY, G24K, G24K, ILAR, ILAR, D25K, K27K, K27K, H27K, H27K, EUNU, KURK, KURK, KURB, MKAR, MKAR, MKAR, BVAR, BVAR, BVAR, NVAR, NVAR, PDAR, PDAR, SFJD, SFJD, TXAR, TXAR, TXAR, TXAR, TXAR, BUR08, BUR08

CNMR 04 07:50:12.4, 35.39N, 4.22W, h16km
SFS 04 07:50:13.8, 35.39N, 4.25W, h0km, ML2.6/12, ML2.7/12, ML2.6/12
MDD 04 07:50:15.3, 1.7, 35.32N, 4.37W, h2km, 111km, mb, Lg2.2/4, Error ellipse: s-maj=11.0km s-min=5.0km az=99.0

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: PARRA, WEL, Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC

WEL 04 08:12:44.3, 0.9, 40.54S, 177.3E, h161km, 7km, M2.5/12, ML3.2/11, ML2.5/12, Error ellipse: s-maj=7.8km s-min=5.0km az=109.7, confirmed, Cook Strait

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: TGY, KURB, MKAR, BVAR, TXAR

JMA 04 08:48:16.4, 0.1, 24.1N, 0.3, 121.8E, 0.3, h64km, MV2.7/12, TAIWAN REGION
ISAP 04 08:48:17.0, 24.18N, 121.77E, h60km, ML3.5, B, Error ellipse: s-maj=5.5km s-min=3.5km az=119.0, confirmed, Taiwan

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like FULB Fuli, WNT Mingjian, WDJ Dajia District, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GLKZ Green Lake, DZM Mont Dzumac, KUZ Kuzotutu, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MLSI Meulaboh, BSI Banda Aceh, HHRG AI Ghardaqah, etc.

ASRS 04 09:23:48.0.0.8, 53.55N-87.62E, h0km, M3.0, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

SOME 04 09:30:49.7, 44.65N-82.15E, h20km NNC 04 09:30:51.8, 1.5, 44.66N-82.03E, h0km, mb3.7, mpv3.5, Error ellipse: s-maj=17.6km s-min=4.2km az=122.0, Suspected Mining explosion.

NEIC 04 09:38:04.4, 1.8, 17.48S-0.07, 171.8W-0.1, h10km, mb4.8/5.9, Error ellipse: s-maj=18.1km s-min=10.0km comp=4.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, ZAAO Zalesovo Array, ZALV Zalesovo Beam, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like DJR Jarkent, MK31 Makanchi Array, KNOS Konyrten, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like RAR Rarotonga, RAO Raoul Island, PINNC Pines Island, etc.

IDC 04 09:26:06.6, 1.8, 22.41S-179.51W, h528km, 26km, mb3.0/6, mbmp4.0/8, Error ellipse: s-maj=30.5km s-min=21.9km az=175.0

DJA 04 09:32:24.3, 0.9, 0.9N-5.98E, h26km, 4km, M3.9/11, mb3.8/2, MLV3.9/11, Northern Sumatera comp=2.4, 6nm, 0.9s, baz=44.2, slow=10, SNR=8.7

IDC 04 09:38:05.0, 0.4, 17.43S-0.08, 171.95W-0.07, h15km, n124, c2805/122, mb4.8/4.3, Tonga Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MSVF Nonsavu, MSVF Nonsavu.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GSI Gunungsitoli, GSI Gunungsitoli, MNSI Mandailing Nat, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BBOO Buckleboe, WRB Warramunga Arr, WRB Warramunga Arr, etc.

WRA	comp=Z,15nm,0.7s	50.77	258	P	P	09 47 03.8	-1.7
WRA	Warramunga Arr	50.77	258	P	P	09 47 03.8	-1.7
WRA	comp=Z,1.1nm,0.6s,baz=99,slow=7.7,SNR=112						
WRA	Warramunga Arr	50.77	258	P	P	09 48 23.1	+0.6
AS31	comp=Z,0.6nm,0.5s,baz=93,slow=3.2,SNR=1.4						
AS31	Alice Springs	50.84	253	P	I	09 47 05.2	-0.9
ASAR	comp=Z,1.6nm,0.7s						
ASAR	Alice Springs	50.84	253	P	P	09 47 05.5	-0.6
ASAR	Alice Springs	50.84	253	P	P	09 47 04.8	-1.2
ASAR	comp=Z,5.3nm,0.7s,baz=91,slow=8.4,SNR=806						
FORT	comp=Z,1.4nm,0.6s,baz=100,slow=7.1,SNR=0.7						
FORT	Forrest	55.77	244	P	P	09 47 41.7	-0.4
KNRA	Kununurra	56.66	262	P	P	09 47 49.7	+1.0
FITZ	Fitzroy Crossi	59.17	259	P	P	09 48 06.6	+0.3
SBA	Scott Base	61.35	185	P	I	09 48 21.7	+1.4
SBA							
VNDA	comp=Z,1.1nm,1.2s						
VNDA	Vanda	61.52	186	P	P	09 48 20.5	-0.9
VNDA	Vanda	61.52	186	P	P	09 48 21.6	+0.3
	comp=Z,0.7nm,0.6s,baz=154,slow=10.0,SNR=3.3						
	comp=Z,0.7nm,0.6s						
PSA00	Pilbara Seismi	63.98	254	P	P	09 48 37.7	-1.0
MBWA	Marble Bar	64.14	255	P	P	09 48 39.1	-0.8
LUWI	Luwuk	66.15	277	P	P	09 48 52.9	-0.0
MORW	Morawa	66.30	245	P	P	09 48 51.6	-2.1
TOLIZ	Tolitoli	68.71	278	P	P	09 49 07.5	-1.7
TOLIZ							
MJAR	comp=Z,1.2nm,1.0s						
MJAR	Matsushiro Arr	71.38	319	P	P	09 49 27.4	+2.2
	comp=Z,1.0nm,0.6s,baz=124,slow=3.9,SNR=4.9						
	comp=Z,1.0nm,0.6s						
JAGI	Jajaj, Banyuwa	72.22	267	P	P	09 49 30.9	+0.3
QSPA	South Pole Qui	72.63	180	P	P	09 49 32.5	+0.2
	comp=Z,4.4nm,1.0s,baz=159,slow=9.9,SNR=17						
	comp=Z,4.4nm,1.0s						
NVAR	Mina Array Bea	74.92	41	P	P	09 49 44.1	-2.1
NVAR	Mina Array Bea	74.92	41	P	P	09 49 50.5	+4.2
	comp=Z,1.0nm,0.8s,baz=223,slow=9.9,SNR=7.1						
	comp=Z,1.0nm,0.8s						
PETK	Petrovavlovsk-	74.98	342	P	P	09 49 45.4	-0.6
PETK	Petrovavlovsk-	74.98	342	P	P	09 49 49.2	+3.2
	comp=Z,2.4nm,1.0s,baz=159,slow=6.2,SNR=4.3						
	comp=Z,2.4nm,1.0s						
NV11	Mina Array Sit	75.01	41	P	P	09 49 46.6	-0.1
ACHA	Achie Creek He	76.61	9	P	P	09 49 55.8	+0.5
ACHA							
	comp=Z,1.1nm,1.4s						
P18K	Big Mountain,	77.76	9	I	I	09 50 00.9	-0.8
P18K							
	comp=Z,2.3nm,1.4s						
WUAZ	Wupatki	77.85	47	P	P	09 50 00.2	-2.7
HPIG	HPIG	77.96	57	P	I	09 50 01.9	-1.9
HPIG							
	comp=Z,7.9nm,1.2s						
DUN6	Lazy B Ranch	77.97	50	P	P	09 50 02.2	-1.4
O18K	Koktuh Hills	78.21	9	P	I	09 50 04.7	+0.5
O18K							
	comp=Z,1.5nm,1.3s						
M14K	Bethel	78.32	5	P	P	09 50 05.2	+0.6
CBB	Campbell River	78.27	29	P	P	09 50 05.2	-2.0
CBB							
	comp=Z,1.2nm,1.2s						
VHRN	Van Horn	80.22	53	P	I	09 50 15.4	-0.6
VHRN							
	comp=Z,1.0nm,1.4s						
L18K	Granite Mounta	80.30	7	P	P	09 50 15.4	-0.1
FID	Port Fidalgo	80.56	12	P	I	09 50 16.4	-0.6
FID							
	comp=Z,9.9nm,1.0s						
TX31	Lajitas Ar. Si	80.60	55	P	I	09 50 17.4	-0.6
TX31							
	comp=Z,1.0nm,1.4s						
TXAR	Lajitas Ar. Si	80.60	55	P	I	09 50 23.2	+5.2
TXAR							
	comp=Z,2.0nm,1.1s,baz=216,slow=6.2,SNR=14						
	comp=Z,2.0nm,1.1s						
SKT	Skwentna	80.79	10	P	I	09 50 18.1	-0.1
SKT							
	comp=Z,7.1nm,1.3s						
M22K	Willow	80.81	10	P	I	09 50 19.1	+0.9
M22K							
	comp=Z,1.1nm,1.0s						
ANMO	Albuquerque	81.05	49	P	P	09 50 18.9	-1.5
ANMO	Albuquerque	81.05	49	P	P	09 50 17.9	-2.5
ANMO							
	comp=Z,3.4nm,1.2s						
ANMO	Albuquerque	81.05	49	I	I	09 50 18.0	-2.5
ANMO							
	comp=Z,3.0nm,1.1s						
VPV21	Cone Mtn., Par	81.07	45	P	P	09 50 19.4	-1.1
MDJ	Mudanjiang	81.47	322	P	P	09 50 21.3	-0.9
MDJ							
	comp=Z,9.0nm,1.8s						
MSO	Missoula	82.48	36	P	P	09 50 26.8	-0.8
NJ2	Nanjing	82.49	307	eP	pmax	09 50 29.4	+1.6
NJ2							
	comp=Z,3.2nm,0.7s						
PDAR	Pinedale Arra	82.86	41	P	P	09 50 32.1	+2.4
PDAR							
	comp=Z,0.3nm,0.5s,baz=110,slow=3.0,SNR=4.5						
	comp=Z,0.3nm,0.5s						
M27K	Edge Creek, AK	83.00	14	P	P	09 50 30.5	+0.6
M27K							
	comp=Z,6.0nm,1.1s						
G18K	Tagagawik	83.68	5	P	I	09 50 33.4	+0.2
G18K							
	comp=Z,1.1nm,1.1s						
WRH	Wood River Hill	83.69	10	P	I	09 50 32.7	-0.5
WRH							
	comp=Z,1.1nm,1.0s						
I21K	Tanana	83.75	8	P	I	09 50 33.9	+0.3
I21K							
	comp=Z,7.9nm,1.2s						
YNE	Yellowstone No	83.76	39	P	P	09 50 33.2	-1.2
CCB	Clear Creek Bu	83.89	10	P	P	09 50 34.9	+0.6
CCB							
	comp=Z,1.0nm,1.1s						
SCRK	Sand Creek	83.99	12	P	I	09 50 35.5	+0.5
SCRK							
	comp=Z,6.4nm,1.4s						
H21K	Melozitna Riv	84.09	8	I	I	09 50 36.2	+0.8
H21K							
	comp=Z,7.9nm,1.2s						
ILAR	Eielson Array	84.17	11	P	P	09 50 37.4	+1.7
ILAR							
	comp=Z,1.0nm,0.9s,baz=210,slow=6.3,SNR=8.2						
	comp=Z,1.0nm,0.9s						
MAW	Mawson	86.32	198	P	P	09 50 46.5	-0.1
MAW							
	comp=Z,2.7nm,0.7s,baz=134,slow=9.6,SNR=6.1						
	comp=Z,2.7nm,0.7s						
BMAR	Burnt Mountain	86.98	10	P	P	09 50 50.4	+0.7
H29M	Whitestone	87.11	13	P	I	09 50 49.9	-0.5
H29M							
	comp=Z,6.1nm,0.9s						
SNA4	Sanae	90.81	177	P	P	09 51 07.8	-0.2
SNA4							
	comp=Z,3.9nm,1.2s						
SNA4	Sanae	90.81	177	P	P	09 51 07.6	-0.4
SNA4							
	comp=Z,0.8nm,0.6s,baz=188,slow=21,SNR=6.2						
	comp=Z,0.8nm,0.6s						
YKA	Yellowknife Ar	91.41	23	P	P	09 51 14.4	+3.8
YKA							
	comp=Z,0.7nm,1.1s,baz=228,slow=4.8,SNR=5.9						
	comp=Z,0.7nm,1.1s						
PB05	IPOC Station P	93.69	115	P	P	09 51 21.0	-1.4
PB05							
	comp=Z,7.7nm,1.1s						
LZH	Lanzhou	95.54	306	eP	sP	09 51 30.1	-0.4
LZH							
	comp=Z,100nm,1.9s						
CLL	Colim	145.97	354	I	PKIKP	09 57 47.9	-0.1
CLL							
BRG	Berggiesshubel	146.31	353	ePKP	PKIKP	09 57 49.8	-1.1
BRG							
	comp=Z,7.2nm,1.1s						
MORC	Moravsky Berou	146.84	349	ePKP	PKIKP	09 57 51.2	+1.3
VRAC	Vranov	147.46	350	ePKP	PKIKP	09 57 52.6	+1.5
KRUC	Moravsky	147.73	350	ePKP	PKPab	09 57 52.9	+1.0
GERES	GERES Array B	148.33	353	ePKPbc	PKIKP	09 57 54.2	+1.1
GERES							
	comp=Z,0.8nm,0.7s,baz=0.0,slow=2.7,SNR=6.9						

MOS 04 09:46:16.2, 1.0, 22.83N, 121.64E, h12km, mb5, 9/90, MS5.2/53, Error ellipse: s-maj=5.5km s-min=3.4km az=110.5

NEIC 04 09:46:17.5, 22.87N, 121.69E, h4km  
NEIC 04 09:46:18.4, 22.87N, 121.66E, h12km  
NEIC 04 09:46:18.4, 22.87N, 121.66E, h12km, Moment Tensor  
Solution. Duration: 3s2 Moment tensor: Scale 10<sup>17</sup>Nm;  
Mn:2.48; Mm:-0.16; Mx:-2.32; Mo:0.41; Mz:-0.77; Mxy:-0.70;  
Fault plane solution: Ms:2.650000x10<sup>17</sup> NP1:φ30.56000°, δ40.38000°, λ110.06000°. NP2:φ184.94000°, δ52.52000°, λ73.73000°. Principal axes: T 2.6784, P1g76.0000°, Azm42.0000°; N -0.0202, P1g13.0000°, Azm195.0000°; P 2.6282, P1g6.0000°, Azm286.0000°;  
ISC-PP 04 09:46:18.22, 90N, 121.69E, h9km, Mwppms0.0, Moment Tensor Solution. s46 Moment tensor: Scale 10<sup>18</sup>Nm;  
Mn:0.51; 07; Mm:0.69; 15; Mx:0.18; 09; Mo:-0.21; 12; Mz:0.04; 10; Mxy:-0.27; 08; Fault plane solution: Ms1.330000x10<sup>18</sup> NP1:φ237.10000°, δ70.40000°, λ157.40000°. NP2:φ335.00000°, δ68.80000°, λ21.00000°;  
ASIES 04 09:46:19.0, 22.84N, 121.61E, h15km, ML5.9, Mw5.5, Moment Tensor Solution. Moment tensor: Scale 10<sup>24</sup>Nm;  
Mn:1.77; Mm:-0.30; Mx:-2.27; Mo:1.13; Mz:-0.54; Mxy:0.26;  
Fault plane solution: Ms2.13536x10<sup>24</sup> NP1:φ192.61000°, δ41.22000°,













Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like Kantishna Hill, Happy Valley, D24K, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like RC01, RC01, RC01, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like SPB2, SPA0, SPA0, etc.



RAGM	baz=287 Ragged Mountain comp=Z,846nm,22.0s	72.21	31	IAMs_20	IAMs_20	10 27 23.9	LOGN	Logan Glacier comp=Z,135nm,1.5s	73.82	30	IAMB	IAMB	09 57 56.1	MTSE	Matsula Talbot Arr	74.72 328	eP	P	09 57 59.0 +0.4	
F28M	Old Crow comp=Z,1um,20.0s	72.28	23	IAMs_20	IAMs_20	10 29 44.3	G30M	tAoh Zraii Nji comp=Z,71um,22.0s	73.83	24	IAMs_20	IAMs_20	10 30 54.2	YUK4	Bancas Point comp=Z,203nm,1.7s	74.74	31	IAMB	IAMB	09 58 01.4
F28M	Old Crow baz=287,SNR=29	72.28	23	P	P	10 29 43.7 +0.6	G30M	tAoh Zraii Nji baz=290,SNR=30	73.83	24	P	P	09 57 51.5 -0.7	ANTO	Ankara	74.90 307	P	IAMB	P	09 57 52.7 -1.8
F28M				S	S	10 07 08.5 +2.8	EPYK	Eagle Plains comp=Z,913nm,20.0s	73.85	24	IAMs_20	IAMs_20	10 31 14.8	ANTO	Ankara	74.90 307	P	IAMB	P	09 58 00.6
GAZ	Gaziantep comp=Z,131nm,1.0s	72.33	303	IAMB	IAMB	09 57 46.4	EPYK	Eagle Plains baz=290,SNR=18	73.85	24	P	P	09 57 52.0 -0.4	ANTO	Ankara	74.90 307	P	IAMs_20	IAMs_20	10 33 46.8
K27K	Chicken baz=286	72.42	27	P	P	09 57 44.4 +0.5	MNK	Minsk comp=E,85nm,1.2s	73.85	323	iP	P	09 57 52.8 +0.2	ANTO	Ankara	74.90 307	P	P	09 57 60.0 +0.9	
K27K				S	S	10 07 09.1 +1.6	MNK					09 57 52.8 +0.2	ANTO	Ankara	74.90 307	P	P	09 57 60.0 +0.9		
HMT	Hamilton baz=286	72.42	31	IAMB	IAMB	09 57 46.2	MNK	comp=N,137nm,1.1s					09 57 52.8 +0.2	ANTO	Ankara	74.90 307	P	P	09 57 59.4 +0.3	
KAIM	Kayak Island comp=Z,111nm,1.0s	72.45	32	IAMB	IAMB	09 57 50.0	MNK	comp=Z,166nm,0.9s,baz=73					09 57 52.8 +0.2	ANTO	Ankara	74.90 307	P	P	09 57 59.3 +0.3	
KAIM	Kayak Island baz=285,SNR=14	72.45	32	P	P	09 57 44.9 +0.8	MNK						09 57 52.8 +0.2	MMAI	Mount Meron Arr	74.93 300	P	P	09 58 00.1 +0.7	
KAIM				S	S	10 07 10.4 +2.5	MNK							MMAI	comp=Z,42nm,1.0s,baz=76,slow=6.1,SNR=42		LR	LR	10 36 16.2	
M26K	Nabesna, AK comp=Z,52nm,0.9s	72.46	29	IAMB	IAMB	09 57 49.8	MNK	comp=N,871nm,17.3s							RAF	Rauma	74.94 300	eP	P	09 57 58.6 -0.1
M26K	Nabesna, AK baz=286,SNR=83	72.46	29	P	P	09 57 44.8 +0.5	MNK	comp=Z,1um,16.2s							PNL	Peninsula	74.95 31	P	P	09 58 00.4 +1.5
M26K				S	S	10 07 09.6 +1.6	MNK							PNL	Peninsula	74.95 31	P	P	09 57 59.8 +0.9	
SIM	Simferopol'	72.55	312	eP	P	09 57 45.3 +0.2	MNK	comp=E,1um,14.6s						H31M	Peel River comp=Z,908nm,22.0s	74.96 24	P	IAMs_20	IAMs_20	10 31 50.1
SIM				eS	S	10 00 29.0	MNK							H31M	Peel River comp=Z,908nm,22.0s	74.96 24	P	P	09 57 58.4 -0.4	
DIKM	Dikman	72.60	308	iP	P	09 57 44.9 -0.6	MNK	comp=E,1um,14.6s	73.85	323	iP	P	09 57 52.7 +0.2	STEI	Steigen	75.00 338	eP	IAMB	P	09 57 58.5 -0.5
JETT	Jettan, Norway	72.66	339	eP	P	09 57 45.0 -0.3	MNK							STEI					09 57 60.0	
BERG	Berg Lake comp=Z,846nm,22.0s	72.67	31	IAMs_20	IAMs_20	10 27 51.0	MNK	comp=Z,56nm,1.0s						YUK6	Outpost Mount baz=290,SNR=29	75.01 30	P	P	09 58 00.5 +1.1	
MCARA	McCarthy VSAT comp=Z,34nm,0.9s,baz=69,slow=6.3,SNR=44	72.72	30	IAMB	IAMB	09 57 51.6	MNK	comp=Z,56nm,1.0s						O29M	Mount Kennedy comp=Z,944nm,22.0s	75.13 31	P	IAMs_20	IAMs_20	10 30 09.9
MCARA	McCarthy VSAT baz=286,SNR=16	72.72	30	P	P	09 57 46.4 +0.6	MNK	comp=N,137nm,1.1s						O29M	Mount Kennedy baz=290,SNR=13	75.13 31	P	P	09 58 01.2 +1.1	
MCARA				S	S	10 07 09.7 -1.3	MNK	comp=E,85nm,1.2s						O29M			S	S	10 07 41.6 +3.2	
SUCK	Suckling Hills comp=Z,220nm,1.9s	72.72	32	IAMB	IAMB	09 57 49.4	MNK	comp=N,871nm,17.0s						FAUS	Fausze	75.21 337	eP	IAMB	IAMB	09 57 59.7 -0.4
SUCK				IAMs_20	IAMs_20	10 29 40.5	MNK	comp=Z,1um,16.0s						FAUS					09 58 10.0	
E29M	Blow River comp=Z,2um,22.0s	72.76	22	IAMs_20	IAMs_20	10 28 58.9	MNK	comp=Z,1um,16.0s						A36M	Sachs Harbour comp=Z,302nm,21.0s	75.28 17	P	IAMs_20	IAMs_20	10 36 00.4
E29M	Blow River baz=288,SNR=17	72.76	22	P	P	09 57 45.9 0.0	MNK	comp=E,1um,15.0s						A36M	Sachs Harbour baz=289	75.28 17	P	P	09 57 59.8 -0.7	
E29M				S	S	10 07 11.4 +0.2	BEIL	Beino	73.86 301	eP	P	09 57 53.7 +0.7	GHAJ	Ghor Haditha comp=Z,47nm,20.0s	75.32 298	IAMs_20	IAMs_20	10 36 27.7		
L27K	Beaver Creek comp=Z,48nm,1.1s	72.79	28	IAMB	IAMB	09 57 50.1	YAF	Yllistaro	73.87 332	eP	IAMB	IAMB	09 57 52.3 -0.1	ATD	Arta Tunnel	75.39 277	LR	LR	10 32 39.9	
L27K	Beaver Creek baz=286,SNR=66	72.79	28	P	P	09 57 47.1 +0.9	J29N	Klondike Camp comp=Z,63nm,1.2s	73.90 26	P	P	09 57 56.5	ATD	Arta Tunnel	75.39 277	P	P	09 58 03.4 +1.6		
L27K				S	S	10 07 13.2 +1.3	J29N	Klondike Camp baz=289	73.90 26	P	P	09 57 53.5 +0.7	N30M	Aishik Lake comp=Z,103nm,1.6s	75.41 29	IAMB	IAMB	09 58 05.9		
BCAR	Beaver Creek A FINES Array S	72.81 28	P	P	09 57 46.7 +0.3	MEF	Mesahoyi Jabal al Asfar	73.97 329	eP	LR	LR	09 57 53.0 -0.1	N30M	Aishik Lake comp=Z,103nm,1.6s	75.41 29	P	P	10 34 25.3		
FIAT	FINES Array S	72.82 30	P	P	09 57 45.5 -0.8	ASF	Jabal al Asfar comp=Z,710nm,18.0s,baz=95,slow=39	73.98 299	LR	LR	10 34 48.0	N30M	Aishik Lake baz=291	75.41 29	P	P	09 58 02.6 +1.1			
FINES	FINES Array B	72.82 330	P	P	09 57 46.1 -0.2	HWQ	Hawqa	74.12 301	eP	P	09 57 54.9 +0.2	N30M	Aishik Lake comp=Z,103nm,1.6s	75.41 29	P	P	10 07 41.5 +0.2			
FINES				LR	LR	10 31 16.9	AKASG	Malin Array Be comp=Z,56nm,1.1s	74.16 319	P	P	10 00 38.9 -0.7	HYT	Haines Junctio comp=Z,83nm,1.4s	75.44 30	IAMB	IAMB	09 58 05.7		
FINES	FINES Array B	72.82 330	iP	P	09 57 46.0 -0.3	AKASG	Malin Array Be comp=Z,933nm,18.5s,baz=56,slow=38	74.16 319	iP	LR	LR	10 32 45.2	HYT	Haines Junctio comp=Z,83nm,1.4s	75.44 30	P	IAMs_20	IAMs_20	10 31 50.2	
CRQM	CRQC	72.84 31	P	P	09 57 46.6 -0.1	AKASG	Malin Array Be comp=Z,95nm,1.1s	74.16 319	iP	P	09 57 53.4 -1.0	HYT	Haines Junctio baz=291,SNR=35	75.44 30	P	P	09 58 02.9 +1.1			
CRQM	CRQC	72.84 31	P	IAMB	IAMB	09 57 52.1	AKBB	Malin Array Si comp=Z,141nm,1.1s	74.16 319	IAMB	IAMB	09 57 54.9	HYT	Haines Junctio baz=291,SNR=35	75.44 30	S	S	10 07 43.4 +1.6		
CRQM				IAMs_20	IAMs_20	10 28 54.2	AKBB	Malin Array Si comp=Z,141nm,1.1s	74.16 319	eP	P	09 57 53.1 -1.3	SORM	Soroca	75.47 316	iP	P	09 58 02.0 0.0		
CRQM				IAMs_20	IAMs_20	10 28 54.2	AKBB						SORM	Soroca	75.47 316	P	P	09 58 02.0 0.0		
CRQE	CRQC	72.86 31	P	P	09 57 47.1 +0.3	KIEV	Kiev comp=Z,59nm,1.0s	74.17 319	P	P	09 57 53.4 -1.1	KIS	Kishinev comp=Z,280nm,5.4s	75.52 315	iP	L	10 27 19.0			
I28M	Miner Creek comp=Z,286,SNR=23	72.89 26	P	P	09 57 46.6 -0.2	KIEV	Kiev comp=Z,127nm,1.1s	74.17 319	IAMB	IAMB	09 57 54.9	KIS	Kishinev comp=Z,800nm,14.0s	75.52 315	eL	LQM	10 30 14.0			
I28M	Miner Creek comp=Z,96nm,1.7s	72.89 26	P	IAMB	IAMB	09 57 50.5	KIEV	Kiev comp=Z,127nm,1.1s	74.17 319	IAMs_20	IAMs_20	10 32 25.2	KIS	Kishinev comp=Z,400nm,15.5s	75.52 315	iP	P	09 58 00.0 -2.3		
I28M	Miner Creek baz=287,SNR=30	72.89 26	P	P	09 57 47.4 +0.6	KIEV	Kiev comp=Z,1um,20.0s	74.17 319	P	P	09 57 53.4 -1.1	KIS	Kishinev comp=Z,400nm,15.5s	75.52 315	iP	P	09 58 00.0 -2.3			
I28M				S	S	10 07 15.7 +2.7	KIEV	Kiev comp=Z,1um,20.0s	74.17 319	P	P	09 57 53.4 -1.1	KIS	Kishinev comp=Z,280nm,5.4s	75.52 315	iP	P	09 58 00.0 -2.3		
BGLC	Bering Glacier baz=287	72.95 31	P	P	09 57 47.7 +0.6	KIEV	Kiev comp=Z,127nm,1.2s	74.17 319	P	MLR	MLR		KIS	Kishinev comp=Z,400nm,15.5s	75.52 315	iP	P	09 58 00.0 -2.3		
M27K	Edge Creek, AK comp=Z,83nm,18.0s	72.97 29	P	IAMs_20	IAMs_20	10 35 46.9	KIEV	Kiev comp=Z,1um,20.0s	74.17 319	iP	P	09 57 53.2 -1.3	MILM	Milestii Mici comp=Z,400nm,15.5s	75.54 315	iP	P	09 58 00.0 -2.5		
M27K	Edge Creek, AK baz=287,SNR=28	72.97 29	P	P	09 57 48.0 +0.6	O28M	Mount Upton baz=288,SNR=17	74.22 30	P	P	09 57 56.0 +1.1	MILM	Milestii Mici comp=Z,400nm,2.2s	75.54 315	eL	L	10 29 47.0			
M27K				S	S	10 07 15.4 +1.3	O28M					MILM	Milestii Mici comp=Z,2um,16.0s	75.54 315	eL	LQM	10 30 09.0			
TGL	Tana Glacier comp=Z,42nm,0.9s	72.99 31	IAMB	IAMB	09 57 52.8	YUK6	Steele Glacier baz=289,SNR=23	74.25 30	P	P	09 57 28.9 +1.0	MILM	Milestii Mici comp=Z,1um,16.5s	75.54 315	eL	LQM	10 33 02.0			
TGL				S	S	10 07 15.7 +2.7	YUK6					MILM	Milestii Mici comp=Z,1um,16.5s	75.54 315	eL	LQM	10 33 02.0			
WAX	Waxell Ridge comp=Z,208nm,1.7s	73.06 31	IAMB	IAMB	09 57 50.2	YUK6						MILM	Milestii Mici comp=Z,400nm,2.2s	75.54 315	eL	LQM	10 33 02.0			
WAX				IAMs_20	IAMs_20	10 28 13.5	KIRS	Kireehir-Merke baz=289	74.28 306	eP	P	09 57 55.0 -0.5	MILM	Milestii Mici comp=Z,400nm,2.2s	75.54 315	eL	LQM	10 33 02.0		
KEF	Keuruu comp=Z,895nm,22.0s	73.17 331	eP	P	09 57 48.1 -0.3	ZAH	Zahle comp=Z,963nm,20.0s	74.30 300	iP	P	09 57 56.3 +0.6	VSDV	Vaisvydzial comp=Z,1um,16.0s	75.55 325	eP	P	09 58 03.0 +0.7			
G29M	Pine Creek comp=Z,1um,22.0s	73.18 24	IAMs_20	IAMs_20	10 30 34.1	INK	Inuvik comp=Z,963nm,20.0s	74.31 22	IAMs_20	IAMs_20	10 33 49.9	PABE	Paberze comp=Z,91um,1.4s	75.59 324	eP	P	09 58 03.3 +0.1			
G29M	Pine Creek baz=289,SNR=20	73.18 24	P	P	09 57 48.6 +0.2	INK	Inuvik comp=Z,724nm,18.7s,baz=294,slow=39	74.31 22	LR	LR	10 34 11.4	P29M	Windy Craggy comp=Z,196nm,1.6s	75.76 31	IAMB	IAMB	09 58 07.5			
H29M	Whitestone comp=Z,158nm,20.0s	73.27 25	IAMs_20	IAMs_20	10 29 37.5	INK	Inuvik baz=292,SNR=19	74.31 22	P	P	09 57 54.6 -0.3	P29M	Windy Craggy baz=291,SNR=26	75.76 31	P	P	09 58 04.8 +1.2			
H29M	Whitestone baz=288,SNR=21	73.27 25	P																	



ULC	Ulcinj	83.73 313	iP	P	09 58 46.5	-0.6
POIN	Pond Inlet	83.79 6	Iamb	Iamb	09 58 56.9	
BRY	Bratogost	83.80 314	iP	P	09 58 46.9	-0.8
ARSA	Arzberg	83.81 319	iP	P	09 58 47.4	0.0
ARSA	Arzberg	83.81 319	iP	P	09 58 47.0	-0.5
ARSA	Arzberg	comp-Z,36nm,1.2s,SNR=12				
ARSA	Arzberg		iPP	PP	10 02 01.5	+1.4
CKRC	Cesky Krumlov	83.81 321	AMS	AMS	10 37 10.0	
ITM	Ithomi	83.81 308	IAMS_20	IAMS_20	10 41 05.9	
BUM	Braji-Budva	83.82 313	iP	P	09 58 47.5	-0.2
SUMG	Summit	83.82 314	Iamb	Iamb	09 58 49.8	
SUMG	Summit	comp-Z,27nm,1.2s				
SUMG	Summit		IAMS_20	IAMS_20	10 39 21.5	
SUMG	Summit	83.88 354	P	P	09 58 46.3	-1.5
SUMG	Summit	83.88 354	iP	P	09 58 47.0	-0.8
SUMG	Summit		Iamb	Iamb	09 58 48.7	
BLY	Banja Luka	83.89 316	iP	P	09 58 47.6	-0.2
A051A	Mrakovica	83.95 316	iP	P	09 58 47.8	-0.5
YKAW3	Yellowknife Wh	83.99 23	Iamb	Iamb	09 58 49.2	
YKAW3	Yellowknife Wh	comp-Z,101nm,1.6s				
HCY	Herceg Novi	84.03 314	iP	P	09 58 48.7	+0.1
HCY	Herceg Novi	84.03 314	iP	P	09 58 47.9	-0.7
YKA	Yellowknife Ar	84.04 23	P	P	09 58 47.4	-0.8
YKA	Yellowknife Ar	84.04 23	P	P	09 58 48.1	-0.1
YKA	Yellowknife Ar	comp-Z,15nm,0.9s,baz=317,slow=5.3,SNR=114				
YKA	Yellowknife Ar		PKKPdP	PKKPdP	10 17 00.1	+5.8
YKA	Yellowknife Ar	comp-Z,1.5nm,1.0s,baz=121,slow=2.0,SNR=8.8				
KHC	Kasperske Hory	84.09 321	eP	P	09 58 48.8	-0.1
KHC	Kasperske Hory		eSKS	eSKS	10 09 05.4	-6.9
KHC	Kasperske Hory		AMS	AMS	10 41 30.0	
KHC	Kasperske Hory	comp-Z,2um,14.9s				
KHC	Kasperske Hory	84.09 321	eP	P	09 58 48.4	-0.5
KHC	Kasperske Hory		AMS	AMS	10 41 30.0	
YKAW1	Yellowknife Wh	84.09 23	P	P	09 58 48.0	-0.5
YKAW1	Yellowknife Wh		Iamb	Iamb	09 58 49.7	
YKAW1	Yellowknife Wh	comp-Z,58nm,1.3s				
GE2C	GERESS Array S	84.15 321	Iamb	Iamb	09 58 50.5	
GERES	GERESS Array B	84.15 321	P	P	09 58 48.6	-0.6
GERES	GERESS Array B	84.15 321	P	P	09 58 49.4	+0.1
GERES	GERESS Array B	comp-Z,30nm,1.0s,baz=57,slow=4.9,SNR=58				
GERES	GERESS Array B		LR	LR	10 38 45.6	
NKC	Novy Kostel	84.21 322	eP	P	09 58 48.9	-0.5
NKC	Novy Kostel		AMS	AMS	10 41 20.0	
NKC	Novy Kostel	84.21 322	eP	P	09 58 48.9	-0.5
NKC	Novy Kostel		MLR	MLR	10 41 20.0	
MOA	Molin	84.29 320	iP	P	09 58 49.8	0.0
MOA	Molin	comp-Z,68nm,1.1s,SNR=32				
MOA	Molin		ePP	PP	10 02 05.4	+1.4
KEK	Kerkira	84.29 311	Iamb	Iamb	09 58 52.2	
KEK	Kerkira	comp-Z,70nm,1.1s				
KEK	Kerkira		IAMS_20	IAMS_20	10 38 49.3	
PERS	Pernice	84.33 318	eP	P	09 58 49.7	-0.5
DOBS	Dobrina	84.34 318	iP	P	09 58 49.6	-0.5
SOKA	Sotho	84.37 318	iP	P	09 58 50.0	-0.4
SOKA	Sotho	comp-Z,52nm,1.0s,SNR=22				
SOKA	Sotho		ePP	PP	10 02 05.6	+0.8
STON	Ston	84.37 314	iP	P	09 58 49.1	-1.2
A050A	Klekovec	84.42 316	iP	P	09 58 50.5	+0.2
CRES	Cresnjevec Ost	84.49 318	iP	P	09 58 50.4	-0.5
CRES	Cresnjevec Ost	84.49 318	iP	P	09 58 50.7	-0.2
UPNV	Upernavik	84.62 359	iP	P	09 58 51.2	+0.3
UPNV	Upernavik		Iamb	Iamb	09 58 53.1	
BIOA	Bad Ischl, Au	84.73 320	P	P	09 58 52.1	-0.1
BIOA	Bad Ischl, Au	comp-Z,50nm,1.3s,SNR=13				
BIOA	Bad Ischl, Au		ePP	PP	10 02 08.5	+0.8
OBKA	Obir	84.74 318	iP	P	09 58 51.6	-0.7
OBKA	Obir	84.74 318	iP	P	09 58 51.7	-0.7
OBKA	Obir	comp-Z,47nm,1.2s,SNR=18				
OBKA	Obir		ePP	PP	10 02 08.3	+0.4
BOJS	Bojanci	84.77 317	iP	P	09 58 52.0	-0.3
BOJS	Bojanci	84.77 317	iP	P	09 58 52.2	-0.1
KIBK	Kibwezi	85.01 265	P	P	09 58 53.4	-0.8
KIBK	Kibwezi	85.01 265	P	P	09 58 56.2	+2.0
GRFO	Grafenberg	85.17 322	P	P	09 58 54.7	+0.5
GRFO	Grafenberg	85.17 322	P	P	09 58 54.7	+0.5
GRFO	Grafenberg		AMS	AMS	10 41 20.0	
GRFO	Grafenberg		MLR	MLR	10 41 20.0	
CEY	Cerknica	85.17 318	iP	P	09 58 53.9	-0.5
KBA	Koelnbreinsper	85.20 319	iP	P	09 58 53.6	-1.1
MYKA	Terra Mystica	85.23 319	iP	P	09 58 53.8	-0.8
MYKA	Terra Mystica	comp-Z,44nm,1.3s,SNR=7				
MYKA	Terra Mystica		iPP	PP	10 02 11.0	+0.9
KMBO	Kilima Mbogo	85.27 267	P	P	09 58 56.6	+0.9
KMBO	Kilima Mbogo	85.27 267	P	P	09 58 56.6	+0.9
KMBO	Kilima Mbogo	85.27 267	iP	P	09 58 57.4	+1.7
KMBO	Kilima Mbogo	SNR=83				
LODK	Lodwar	85.27 272	P	P	09 58 57.2	+1.8
LODK	Lodwar	SNR=39				
VRED	Cave del Predi	85.37 319	P	P	09 58 55.0	-0.4
PROI	Vohtsoka	85.37 244	P	P	09 58 56.7	+0.8
LES	Schwarzleotal	85.43 320	iP	P	09 58 55.2	-0.6
LES	Schwarzleotal	comp-Z,61nm,1.5s,SNR=18				
LES	Schwarzleotal		iPP	PP	10 02 13.4	0.0
TRI	Trieste	85.60 318	Iamb	Iamb	09 58 57.0	
ABTA	Abfattersbach	85.63 319	iP	P	09 58 56.2	-1.7
STAL	STALIGIAL	85.98 319	Iamb	Iamb	09 58 58.5	
MATE	Matera	86.02 313	iP	P	09 58 58.2	-0.4
MATE	Matera	86.02 313	iP	P	09 58 56.5	-2.2
WATA	Walderalm	86.13 320	iP	P	09 58 58.1	-1.1
WATA	Walderalm	comp-Z,43nm,1.5s,SNR=8.6				
WATA	Walderalm		iPP	PP	10 02 19.1	0.0
WTTA	Wattenberg	86.13 320	iP	P	09 58 58.3	-1.1
WTTA	Wattenberg	comp-Z,32nm,0.9s,SNR=12				
WTTA	Wattenberg		ePP	PP	10 02 19.3	+0.1
SGRT	San Giovanni R	86.17 314	P	P	09 58 59.0	-0.5
SGRT	San Giovanni R		Iamb	Iamb	09 59 00.4	
MOTA	Moosalm	86.40 320	iP	P	09 58 59.6	-1.0
SQTA	Sankt Quirin	86.40 320	iP	P	09 58 59.7	-0.9
SQTA	Sankt Quirin	comp-Z,43nm,1.3s,SNR=9.3				
SQTA	Sankt Quirin		ePP	PP	10 02 19.5	-1.8
ILON	Igloolik, Nun	86.50 8	Iamb	Iamb	10 09 00.8	
ILON	Igloolik, Nun	comp-Z,54nm,1.1s				
RETA	Reutte	86.53 321	iP	P	09 59 00.4	-0.7
TIP	Timpagrande	86.65 311	IAMS_20	IAMS_20	10 40 22.4	
FUC	Feichten	86.79 320	iP	P	09 59 01.8	-0.8
CETA	Castrocuoco	86.93 312	Iamb	Iamb	09 59 04.9	
CUC	Cuedera		IAMS_20	IAMS_20	10 42 01.7	
SOEG	Soedalen	87.08 350	iP	P	09 59 02.6	-0.7
SOEG	Soedalen		Iamb	Iamb	09 59 04.5	
GUMA	Gualdo di Mace	87.13 316	IAMS_20	IAMS_20	10 43 01.8	
GUMA	Gualdo di Mace	comp-Z,1um,20.0s				

DAVA	Damuels	87.15 321	iP	P	09 59 03.6	-0.7
DAVA	Damuels	comp-Z,29nm,1.4s,SNR=5.8				
DAVA	Damuels		ePP	PP	10 02 27.4	0.0
INTR	Introduca	87.26 315	Iamb	Iamb	09 59 12.8	
FUORN	Ofenpass-Fuorn	87.27 320	P	P	09 59 04.2	-0.8
FUORN	Ofenpass-Fuorn		Iamb	Iamb	09 59 06.3	
PAOL	Paolisi	87.29 314	P	P	09 59 04.4	-0.5
PAOL	Paolisi	comp-Z,85nm,1.4s				
ICESG	Greenland Lacs	87.34 353	iP	P	09 59 04.4	-0.6
ICESG	Greenland Lacs	comp-Z,181nm,1.6s				
NRCA	Norcica	87.38 316	IAMS_20	IAMS_20	10 44 56.5	
NRCA	Norcica	comp-Z,915nm,22.0s				
DAVOX	Davos/Dischmat	87.41 320	LR	LR	10 40 41.4	
DAVOX	Davos/Dischmat	comp-Z,1um,19.8s,baz=77,slow=37				
AQU	L'Aquila	87.43 315	P	P	09 59 03.0	-2.6
AQU	L'Aquila	87.43 315	P	P	09 59 05.6	0.0
BTNL	Ternell	87.48 325	dP	P	09 59 05.1	-0.5
BFO	Black Forest	87.50 322	P	P	09 59 04.5	-1.3
BFO	Black Forest	comp-Z,73nm,1.8s				
BFO	Black Forest		MLR	MLR	10 40 06.6	
BFO	Black Forest	comp-Z,73nm,1.8s				
BFO	Black Forest		MLR	MLR	10 40 06.6	
MEM	Membach	87.53 325	dP	P	09 59 04.9	-0.9
MEM	Membach		ePP	PP	09 59 05.5	-3.1
MEM	Membach		ePP	PP	10 02 30.6	+0.5
CEL	Celeste	87.67 311	P	P	09 59 06.3	-0.5
CEL	Celeste		IAMS_20	IAMS_20	10 41 01.5	
BHOJ	Houvejze	87.68 325	dP	P	09 59 06.2	-0.4
SLE	Sletten	87.70 322	P	P	09 59 05.3	-1.5
CLRS	Cowichan Lake	87.74 37	IAMS_20	IAMS_20	10 38 28.9	
CLRS	Cowichan Lake	comp-Z,641nm,20.0s				
CESX	Cesi	87.84 316	Iamb	Iamb	09 59 08.3	
CESX	Cesi	comp-Z,104nm,1.7s				
TUE	Stuetta	87.89 320	Iamb	Iamb	09 59 09.0	
LLBL	Lillooet	87.97 35	Iamb	Iamb	09 59 10.3	
LLBL	Lillooet	comp-Z,48nm,1.0s				
LLBL	Lillooet		IAMS_20	IAMS_20	10 41 06.8	
WLF	Wallerdange	87.98 324	P	P	09 59 07.2	-0.8
WLF	Wallerdange	87.98 324	P	P	09 59 07.9	-0.1
WLF	Wallerdange	87.98 324	dP	P	09 59 08.1	+0.1
WLF	Wallerdange	comp-Z,25nm,1.4s				
BCLA	Clavier	88.01 325	dP	P	09 59 07.8	-0.4
BCLA	Clavier	comp-Z,10nm,1.6s				
ILULI	Ilulissat	88.07 357	dPP	PP	10 02 35.2	+1.2
ILULI	Ilulissat	comp-Z,23nm,0.7s				
ILULI	Ilulissat		IAMS_20	IAMS_20	10 36 32.0	
BGES	Gesves	88.15 325	dP	P	09 59 08.3	-0.5
RAR	Rarotonga	88.18 114	LR	LR	10 30 54.0	
RAR	Rarotonga	comp-Z,42nm,20.0s,baz=291,slow=30				
ECH	Echery	88.22 322	P	P	09 59 08.4	-0.8
ECH	Echery		Iamb	Iamb	09 59 10.1	
ECH	Echery	comp-Z,82nm,2.0s				
ECH	Echery		P	P	09 59 08.4	-0.8
OSSC	Osservatorio P	88.23 317	Iamb	Iamb	09 59 10.1	
OSSC	Osservatorio P	comp-Z,107nm,1.6s				
UCC	Uccle	88.29 326	Iamb	Iamb	09 59 10.1	
UCC	Uccle	comp-Z,104nm,1.7s				
BLKN	Baker Lake	88.33 15	P	P	09 59 09.0	-0.4
BLKN	Baker Lake		Iamb	Iamb	09 59 08.3	-1.1
BLKN	Baker Lake		Iamb	Iamb	09 59 09.6	-0.4
BMRD	Mareduous	88.36 325	dP	P	09 59 09.3	-0.5
VLC	Villacollemand	88.45 318	P	P	09 59 09.0	-1.4
DOU	Dourbes	88.57 325	dP	P	09 59 10.3	-0.5
DOU	Dourbes	comp-Z,12nm,1.0s				
NLWA	Nellton Lookou	88.66 38	Iamb	Iamb	09 59 14.2	
NLWA	Nellton Lookou	comp-Z,62nm,1.1s				
VAE	Valguarnera	89.07 311	LR	LR	10 48 53.9	
VAE	Valguarnera	comp-Z,304nm,19.7s,baz=39,slow=42				
EKA	Eskdalemuir Ar	89.10 332	P	P	09 59 12.1	-1.1
EKA	Eskdalemuir Ar	comp-Z,2.0m,0.8s,baz=29,slow=3.1,SNR=9.8				
EKA	Eskdalemuir Ar		PP	PP	10 02 41.7	-0.8
EKA	Eskdalemuir Ar	comp-Z,5.2nm,1.0s,baz=48,slow=8.2,SNR=5.0				
EKA	Eskdalemuir Ar	comp-Z,3.0nm,0.8s				
CASY	Casey	89.24 184	P	P		

4d 9h

COI	Coimbra	101.92	323	ePP	PP	10 04 25.8	+3.5
PCAS	Casmillo, Conde	102.08	323	ePP	PP	10 04 25.9	+2.4
PSARD	Sardao	102.20	323	ePP	PP	10 04 25.6	+1.1
RESTR	Estremoz	102.38	322	ePP	PP	10 04 27.6	+1.8
BLVCO	Elythe	102.39	45	IAMS_20	IAMS_20	10 04 27.5	
PBAR	Barrancos	102.53	321	ePdif	Pdif	10 00 12.0	-2.7
PBAR	Barrancos	102.53	321	ePP	PP	10 04 29.1	+2.2
PMTG	Montargil	102.60	322	ePP	PP	10 04 29.6	+2.2
PSBE	So Bento	102.62	323	ePP	PP	10 04 30.3	+2.8
EVO	Evora	102.85	32	ePP	PP	10 04 32.3	+3.0
VNDA	Vanda	102.91	172	PP	PP	10 04 25.1	-4.6
VNDA	Vanda	comp=2.1,4nm,0.9s,baz=277,slow=17,SNR=3.0					
TAM	Tamanrasset	103.08	302	IAMS_20	IAMS_20	10 16 13.6	-2.0
PARRA	Arraiolos	103.24	323	ePP	PP	10 04 27.8	-4.4
LIS	Lisabon	103.37	322	ePP	PP	10 04 34.2	+1.1
LIS	Lisabon	comp=2.537nm,19.0s				10 04 34.2	+1.1
SUSID	Miller	103.44	29	IAMS_20	IAMS_20	10 52 19.8	
MESJ	Messejana	103.44	321	ePP	PP	10 04 34.9	+1.2
MESJ	Messejana	comp=N,2um,16.6s				10 04 34.9	+1.2
MESJ	Messejana	103.44	321	ePP	PKIKP	10 04 38.3	+0.7
PVAQ	Vaqueiros	103.45	321	ePP	PKIKP	10 04 35.2	+1.4
PVAQ	Vaqueiros	comp=2.62nm,19.0s				10 46 55.4	
F3A	5 Mile Ranch	103.45	26	IAMS_20	IAMS_20	10 55 09.0	
PCVE	Castro Verde	103.48	321	ePP	PP	10 04 34.9	+0.8
TBO	Thunder Bay	103.61	21	IAMS_20	IAMS_20	10 55 34.7	
ISCO	Idaho Springs	103.67	36	IAMS_20	IAMS_20	10 49 08.4	
PBDV	Belvedere	103.68	321	ePP	PKIKP	10 04 38.0	-0.1
MVCO	Mesa Verde	103.68	39	IAMS_20	IAMS_20	10 53 12.3	
PTEO	Sao Teotônio	103.94	321	ePP	PKIKP	10 04 39.2	+0.7
MORF	Marletele	104.06	321	ePP	PKIKP	10 04 39.5	+0.7
MORF	Marletele	comp=E,3um,24.9s				10 44 51.5	
MORF	Marletele	104.06	321	ePP	PKIKP	10 04 39.8	+1.0
PFVI	Vila Bisbo	104.28	321	ePP	PKIKP	10 04 40.2	+2.0
S2ZA	4UR Ranch, Cre	104.45	38	IAMS_20	IAMS_20	10 46 31.4	
K3OB	Basnet	104.53	30	IAMS_20	IAMS_20	10 55 51.7	
E38A	The Farm, Brul	104.64	23	IAMS_20	IAMS_20	10 48 00.8	
ECSD	EROS Data Cent	105.02	28	IAMS_20	IAMS_20	10 56 42.7	
SDCO	Great Sand Dun	105.19	37	IAMS_20	IAMS_20	10 50 15.0	
SPMN	Marine St.	105.34	24	IAMS_20	IAMS_20	10 50 48.8	
I37A	Lemond, Waseca	106.12	26	IAMS_20	IAMS_20	10 49 49.6	
BGNE	Belgrade	106.19	30	IAMS_20	IAMS_20	10 53 55.8	
T25A	Trinidad	106.23	37	IAMS_20	IAMS_20	10 51 58.9	
G40A	Rib Lake	106.27	23	IAMS_20	IAMS_20	10 57 05.2	
L34A	Swendsen Farm	106.25	29	IAMS_20	IAMS_20	10 52 49.0	
F42A	Maple Grove Fa	106.56	21	IAMS_20	IAMS_20	10 58 08.8	
ANMO	Albuquerque	106.62	40	IAMS_20	IAMS_20	10 58 12.0	
ANMO	Albuquerque	comp=2.506nm,18.0s				10 58 12.0	
ANMO	Albuquerque	106.62	40	IAMS_20	IAMS_20	10 58 12.0	
ANMO	Albuquerque	comp=2.505nm,18.0s				10 58 12.0	
Y22D	IRIS PASSCAL I	106.95	41	P	PKIKP	10 04 44.2	-0.2
E46A	Sault de Mari	107.22	18	IAMS_20	IAMS_20	10 53 50.0	
V40A	Norwalk	107.30	24	IAMS_20	IAMS_20	10 49 35.6	
LDQ	Val d'Or	107.33	13	IAMS_20	IAMS_20	10 55 20.5	
CEBR	Cedar Bluff	107.45	33	IAMS_20	IAMS_20	10 58 03.1	
N35A	Tabor	107.77	29	IAMS_20	IAMS_20	10 53 55.4	
H43A	Windswept, Lux	107.81	22	IAMS_20	IAMS_20	10 53 23.0	
IC2A	Draeger Farm	107.92	23	IAMS_20	IAMS_20	10 56 26.7	
SCIA	State Center	107.95	27	IAMS_20	IAMS_20	10 58 42.1	
JFWS	Jewell Farm	108.28	24	IAMS_20	IAMS_20	10 52 50.4	
SYO	Syowa Base	108.30	2021	ePPdif	Pdif	10 00 45.4	+3.3
SYO	Syowa Base	108.30	2021	ePP	PKIKP	10 04 48.8	+3.3
GLMI	Graying	108.52	19	IAMS_20	IAMS_20	10 51 46.5	
LDAQ	Lac Daran	108.58	9	IAMS_20	IAMS_20	10 52 55.7	
L40A	Anamosa	108.63	25	IAMS_20	IAMS_20	10 54 09.6	
I45A	Fountain	108.71	21	IAMS_20	IAMS_20	10 59 52.5	
KSU1	Kansas State U	108.74	31	IAMS_20	IAMS_20	10 55 52.3	
EPT	El Paso	108.78	42	IAMS_20	IAMS_20	10 46 43.6	
N38A	Joey's Farm	108.87	27	IAMS_20	IAMS_20	10 59 07.4	
K43A	Burlington	109.16	23	IAMS_20	IAMS_20	10 57 04.6	
L42A	Oliver, Polo	109.28	24	IAMS_20	IAMS_20	10 55 41.7	
AMTX	Amarillo	109.39	37	IAMS_20	IAMS_20	10 52 32.0	
MSTX	Muleshoe	109.45	38	IAMS_20	IAMS_20	10 53 43.7	
P38A	Dawn	109.71	28	IAMS_20	IAMS_20	10 53 08.7	
TRQ	Mont Tremblant	109.72	12	IAMS_20	IAMS_20	10 55 32.9	
L44A	Lake County Fo	109.77	23	IAMS_20	IAMS_20	10 57 32.8	
N41A	Harden Midland	109.92	26	IAMS_20	IAMS_20	10 59 43.2	
HQIL	Hanson Quarry C	110.13	23	IAMS_20	IAMS_20	10 57 42.3	
M44A	Midewin, Midew	110.42	23	IAMS_20	IAMS_20	10 57 54.0	
P40A	Paris	110.42	27	IAMS_20	IAMS_20	10 56 13.4	
L46A	Eue Claire	110.49	22	IAMS_20	IAMS_20	10 52 19.6	
T35A	Sooner Cattle	110.52	32	IAMS_20	IAMS_20	10 50 50.4	
HDL	Hopedale	110.67	25	IAMS_20	IAMS_20	10 53 23.8	
OK029	Liberty Lake	110.93	33	IAMS_20	IAMS_20	10 54 57.5	
K50A	Casco	110.98	19	IAMS_20	IAMS_20	10 56 05.5	
WMOK	Wichita Mounta	111.06	35	IAMS_20	IAMS_20	11 00 34.2	
OK052	Battle Ridge R	111.11	33	IAMS_20	IAMS_20	10 58 58.0	
TORD	Torodi Ar, Bea	111.19	295	PP	PP	10 05 25.9	-5.6
P43A	Skaggs, Pawnee	111.36	25	IAMS_20	IAMS_20	10 53 49.1	
PECO	Prince Edward	111.39	14	IAMS_20	IAMS_20	10 51 04.2	
S39A	Balfour	111.39	29	IAMS_20	IAMS_20	11 01 10.4	
SFIN	Lafayette	111.65	23	IAMS_20	IAMS_20	10 59 21.3	
TUL3	Leonard	111.67	32	IAMS_20	IAMS_20	10 54 35.9	
N47A	Urbana	111.70	22	IAMS_20	IAMS_20	10 54 30.7	
MEDO	Medina	111.77	16	IAMS_20	IAMS_20	10 56 01.3	
G65A	Princeton	111.77	7	IAMS_20	IAMS_20	11 00 30.8	

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J55A	Hilton	111.83	15	IAMS_20	IAMS_20	10 55 56.6	
VT1	Waterbury	111.87	11	IAMS_20	IAMS_20	10 53 10.1	
U38A	Gravette	111.92	31	IAMS_20	IAMS_20	10 56 17.4	
SLM	Saint Louis	111.93	26	IAMS_20	IAMS_20	10 57 41.4	
CCM	Cathedral Cave	112.00	28	IAMS_20	IAMS_20	10 57 11.3	
LBNH	Lisbon	112.10	10	IAMS_20	IAMS_20	10 55 29.9	
M50A	Fresno	112.11	20	IAMS_20	IAMS_20	10 53 58.5	
J57A	Williamstown	112.11	14	IAMS_20	IAMS_20	10 55 29.0	
PMOZ	Porto Moniz, M	112.13	323	eLR	LR	10 42 55.5	
PMOZ	Porto Moniz, M	comp=2.730nm,20.0s				10 49 30.1	
N49A	Columbus Grove	112.17	21	IAMS_20	IAMS_20	10 54 06.1	
ABTX	Ablene, Hawle	112.20	37	IAMS_20	IAMS_20	10 57 49.3	
TXAR	Lajitas Array	112.23	42	PKIKP	PKIKP	10 04 54.0	-0.3
TXAR	Lajitas Array	comp=2.2,1nm,0.8s,baz=272,slow=0.9,SNR=14				10 05 36.9	-1.4
TXAR	Lajitas Array	comp=2.4,1nm,1.1s,baz=298,slow=5.3,SNR=6				10 05 36.9	-1.4
TXAR	Lajitas Array	comp=2.0,7nm,0.8s,baz=152,slow=5.7,SNR=4				10 15 53.4	-2.3
MGMO	Mountain Grove	112.31	29	IAMS_20	IAMS_20	10 57 36.6	
MMNV	Mt. Morris Dam	112.31	15	IAMS_20	IAMS_20	10 56 03.6	
J59A	Piesoc	112.38	13	IAMS_20	IAMS_20	10 54 22.9	
FVM	French Village	112.41	27	IAMS_20	IAMS_20	10 53 26.1	
WVWV	Waverly, W	112.44	16	IAMS_20	IAMS_20	10 58 51.8	
M52A	Chesterland	112.49	19	IAMS_20	IAMS_20	10 59 57.3	
I62A	Tamworth	112.56	10	IAMS_20	IAMS_20	10 52 58.6	
HNH	Hanover	112.56	11	IAMS_20	IAMS_20	10 59 17.8	
QSPA	South Pole Qui	112.63	180	PKIKP	PKIKP	10 04 52.5	-1.3
QSPA	South Pole Qui	comp=2.6,2nm,1.0s,baz=323,slow=1.4,SNR=12				10 15 41.8	-3.5
K57A	Scipio Center	112.64	14	IAMS_20	IAMS_20	10 55 11.1	
OLIT	Olney	112.70	25	IAMS_20	IAMS_20	10 52 43.4	
O49A	Covington	112.78	21	IAMS_20	IAMS_20	10 54 26.3	
J61A	Chester	112.86	11	IAMS_20	IAMS_20	10 54 12.7	
BLO	Bloomington	112.92	23	IAMS_20	IAMS_20	10 59 32.9	
T42A	Vau Buren	112.93	28	IAMS_20	IAMS_20	10 54 55.6	
Z35A	Perchvan, St	112.95	35	IAMS_20	IAMS_20	10 57 59.0	
L56A	Greenwood	112.96	15	IAMS_20	IAMS_20	10 56 33.5	
P48A	Milroy	113.06	23	IAMS_20	IAMS_20	10 56 32.6	
SIUC	Southern Illin	113.14	26	IAMS_20	IAMS_20	10 54 59.0	
S44A	Carbondale	113.14	26	IAMS_20	IAMS_20	10 55 00.1	
FW07	Weatherford	113.16	36	IAMS_20	IAMS_20	10 59 35.4	
ACSO	Alum Creek Sta	113.19	20	IAMS_20	IAMS_20	11 01 07.9	
TRY	Troy	113.25	12	IAMS_20	IAMS_20	10 51 34.0	
CGM3	Cape Girardeau	113.31	27	IAMS_20	IAMS_20	10 55 33.6	
N53A	Lisbon	113.32	18	IAMS_20	IAMS_20	10 59 29.2	
PBMO	Poplar Bluff	113.42	28	IAMS_20	IAMS_20	10 58 02.7	
K62A	Royalston	113.58	11	IAMS_20	IAMS_20	10 54 31.7	
O52A	Adamsville	113.65	19	IAMS_20	IAMS_20	11 00 48.2	
LCAR	Lake Charles	113.70	29	IAMS_20	IAMS_20	10 58 23.2	
L61B	Northampton	113.71	12	IAMS_20	IAMS_20	10 59 45.1	
FW14	Alvarado	113.71	35	IAMS_20	IAMS_20	10 58 43.0	
W31	New Philadelphia	113.72	19	IAMS_20	IAMS_20	10 55 49.9	
OC5A	Wyandotte Cave	113.83	24	IAMS_20	IAMS_20	11 00 11.2	
PC1A	Williamsport	113.84	21	IAMS_20	IAMS_20	10 55 16.2	
MIAR	Mount Ida	113.84	31	IAMS_20	IAMS_20	11 00 22.1	
WHTX	Lake Whitney	113.88	36	IAMS_20	IAMS_20	11 00 13.8	
T45A	Paducah	113.97	26	IAMS_20	IAMS_20	10 56 40.6	
P52A	Corning	114.00	20	IAMS_20	IAMS_20	11 00 37.4	
HICK	Hickman	114.14	27	IAMS_20	IAMS_20	10 57 09.4	
Z38A	Mt. Pleasant	114.18	33	IAMS_20	IAMS_20	11 01 20.3	
R49A	Shelbyville	114.19	23	IAMS_20	IAMS_20	10 54 48.5	
UEAL	Penistaw Bayo	114.23	28	IAMS_20	IAMS_20	10 58 06.1	
PBLR	University of	114.24	30	IAMS_20	IAMS_20	11 02 45.5	
X40A	Basin Creek Fa	114.25	31	IAMS_20	IAMS_20	10 57 13.7	
GNAR	Gosnell	114.29	28	IAMS_20	IAMS_20	10 58 09.6	
GLAT	Glass	114.34	27	IAMS_20	IAMS_20	10 56 03.9	
LNXT	Lenox	114.40	27	IAMS_20	IAMS_20	10 57 50.5	
UCCT	U. Connecticut	114.42	11	IAMS_20	IAMS_20	10 55 08.1	
UTMT	University of	114.46	27	IAMS_20	IAMS_20	11 02 20.8	
R50A	Paris	114.49	22	IAMS_20	IAMS_20	10 53 01.6	
Q52A	Bidwell	114.57	20				

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Pedra Branca-C, Sao Gabriel da, Tabatinga, AM, etc.

HEL 04 10:00:22.3:0.2, 64.66N-30.83E, h0km, ML1.7, Explosion
IDC 04 10:00:22.3:0.3, 64.58N-31.06E, h0km, mbmp3.1/3,
ML2.4/2, Error ellipse: s-maj=43.9km s-min=10.5km
az=104.0

KOLA 04 10:00:24.5, 64.65N-30.59E, h0km, ML2.0, Error ellipse:
s-maj=24.4km s-min=17.6km az=170.0, Kostomuksha,
Karelia

ISC 04 10:00:23.0:0.9, 64.69N-0.03:30.39E:0.05, h0km, n19,
+0593.32, Finland-Karelia border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Romuvaara, Kurvonen, PUIOLANKA, etc.

SOME 04 10:21:52.7, 43.33N-81.88E, h10km
NNC 04 10:21:54.2:2.5, 43.33N-81.87E, h0km, mb3.6, mpv3.4,
Northern Xinjiang
Error ellipse: s-maj=16.9km s-min=14.1km az=122.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Shalkode, Jarkent, Uzunbulak, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like UZB, KNOS, KPKS, etc.

NEIC 04 10:25:06.0:1.0, 1.9N:0.1x128.09E:0.09, h136km, gkm,
mb4.3/13, Error ellipse: s-maj=20.9km s-min=10.3km
az=210.0

IDC 04 10:25:09.7:11.0, 1.90N:128.14E, h181km, 111km,
mb3.6/7, mbmp4.0/8, Error ellipse: s-maj=86.8km
s-min=16.6km az=18.0

ISC 04 10:25:05.2:0.7, 2.02N:0.08:128.17E:0.10, h134km, n28,
+1511/29, mb4.3/13, Halmahera

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like TINTI, LUWI, TOLII, etc.

VAO 04 10:33:33.5:0.5, 32.69S:72.18W, h30km, mb4.5,
SJA 04 10:33:37.6:1.1, 32.15S:71.77W, h24km, 3km, ML4.6,
MV4.7

NEIC 04 10:33:39.7, 32.15S:71.82W, h30km
GUC 04 10:33:39.2:0.8, 32.16S:71.75W, h37km, 2km, ML4.6
NEIC 10:33:39.6:1.3, 32.14S:71.84W:0.08, 71.84W:0.08,
h30km, 9km, mb4.7/26, Mww4.4/70, Mww4.7(GUC), Error
ellipse: s-maj=9.6km s-min=1.2km az=91.0, Moment
Tensor Solution. Moment tensor: Scale 10^15Np1;
Mn:3.52; Mns:0.51; Mns:4.03; Mns:0.47; Mns:1.38; Mns:2.67;
Fault plane solution: Mo:4.87000x10^15 Np1;
o:191.74000°, :862.20000°, :85.73000°. NP2:20.83000°,
:828.10000°, :988.03000°. Principal axes: T 4.3660,
Plg72.0000°, Azm92.0000°, N 0.8853, Plg4.0000°.
Azm194.0000°, P -5.2512, Plg17.0000°, Azm285.0000°;
IDC 04 10:33:41.6:2.5, 32.14S:71.77W, h47km, 21km, mb4.6/9,
mbmp4.6/14, ML4.4/5, MS3.9/3 Error ellipse:
s-maj=23.6km s-min=12.0km az=113.0

ISC 04 10:33:37.3:1.0, 32.13S:0.02:71.87W:0.04, h20km, 4km,
n183, :1924/227, mb4.8/21, 6C-16D, Near coast of central
Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Catapilco, Torpederas, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PEL, MT05, MT10, etc.

4d 11h

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like BI02 San Fabín de, GO03 Copiapo, AC02 Maricunga, etc.

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Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like BRTR Keskin Array B, AKASO Malin Array B, WRA Warramunga Arr, etc.

IDC 04 10:50:05.9,329.0,58.59N;30.00E, h0km, Error ellipse: s-maj=128.0km s-min=91.1km az=114.0, Baltic

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like I43RU DUBNA INFRASON, I37NO I37NO, I26DE FREYUNG INFRAS13, etc.

SNET 04 11:27:15.1, 1.1, 13.18N;89.51W, h55km, ML3.7, CATAQ 04 11:27:16.3, 0.5, 13.1N;4.8W, h34km, 4km, M3.7/24, MLV3.7/24, Error ellipse: s-maj=9.1km s-min=4.7km

GGC 04 11:27:17.0, 0.6, 13.32N;89.51W, h53km, 4km, MD3.8, ML3.6

ISC 04 11:27:16.2, 1.7, 13.20N;0.09,89.49W;0.06, h53km, 11km, n62, c062/65, El Salvador

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like LALI Alcaldía de L, LALI Alcaldía de L, LALI Alcaldía de L, etc.

HEL 04 11:28:38.0, 0.2, 68.06N;33.03E, h0km, ML1.7, Explosion UPL 04 11:28:38.0, 0.3, 68.01N;33.03E, h0km, ML1.8

KOLA 04 11:28:39.6, 0.8, 10N;33.19E, h0km, ML2.1, Error ellipse: s-maj=2.6km s-min=1.5km az=90.0, Olenegorsk City, Mines

IDC 04 11:28:41.9, 2.7, 68.17N;32.47E, h0km, mbtmp2.9/2, ML2.0/2, Error ellipse: s-maj=32.7km s-min=13.6km az=59.0

ISC 04 11:28:37.5, 0.6, 68.07N;0.02, 32.99E;0.03, h0km, n43, +1910.62, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like APA0 Apatity Array, APA Apatity, LVZ Lovozero, etc.

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Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like KU6 Rieikki, KU6 Vado, VADS Vado, etc.

IDC 04 11:34:04.1, 0.8, 12.08S;165.73E, h0km, mb4.4/14, mbtmp4.4/16, ML4.2/2, MS3.7/9, Error ellipse: s-maj=27.9km s-min=17.7km az=99.0

NEIC 04 11:34:06.1, 1.8, 12.12S;0.1, 165.8E;0.1, h10km, 1km, mb4.9/34, Error ellipse: s-maj=20.5km s-min=14.8km

ISC 04 11:34:05.7, 0.6, 12.12S;0.07, 165.72E;0.10, h10km, n69, c082/66, mb4.8/30, MS3.7/7, Santa Cruz Islands

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, ISC, h, m, s, Res, ISC. Includes stations like HNR Honiara, HNR Honiara, HNR Honiara, etc.











Table with columns for station code, name, frequency, power, and signal strength. Includes stations like BVAR Borovoye Array, TNA Tin City, and M16K Timber Creek.

Table with columns: ID, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Hard Lake, Slope Mountain, SUSA, etc.

Table with columns: ID, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like J30M Hart River, K29M Barlow Dome, K29M Barlow Dome, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, Phase ID, Time, Res, and other parameters. Includes stations like HSPB Hornsund (broa), BRBA Barentsburg A, SPAO Spitsbergen Ar, etc.



Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes stations like MAKAR Makanchi Array, MAZK Makanchi, RAR Rarotonga, RARB Kurchatov, KURK Kurchatov, VVDA Vanda, ABKAR Akbulak array, QSPA South Pole Qui, L16K Ohwat River.

NNC 04 13:45:23.0-1.0, 42.77N-79.25E, h0km, mb3.1, mpv3.2, Error ellipse: s-maj=6.9km s-min=2.9km az=149.0

SOME 04 13:45:22.2, 42.70N-79.23E, h15km

KRNET 04 13:45:22.0-1.0, 42.59N-79.28E, h20km, mb2.8

ISC 04 13:45:21.4-1.3, 42.71N-0.04-79.18E, h12km, 12km, n33, r146/62, 20C-10D, Lake Issyk-Kul region

Main table of station data with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes stations like UZB Uzynbulak, SHLS Shalkode, PRZ Przheval'sk, PDGK Podgornoye, SATY Saty, ZHN Zhinshiske, KPKS Kokpek, TARG Tarag, Kyrgy, BLB Baldybastay, KDJ Kajisay, MDOK Medeo, MDOB Medeo, MTBS Maibute, ULHL Ulahol, KST Kastek, BOOM Booms koye usch, ECOM Tokmak 2, TKM2 Tokmak 2, NRN Naryn, KBK Karagaybulak, CHMS Chumysh, AAK Ala-Archa, USP Oспенovka, MAKZ Makanchi, MK31 Makanchi Array.

DNK 04 13:48:35.6-1.1, 51.27N-16.43E, h25km, 48km, ML2.6
IPEC 04 13:48:36.8-0.2, 51.46N-16.33E, h1km, ML2.75, Error ellipse: s-maj=1.6km s-min=1.0km az=34.0
VIE 04 13:48:36.2-1.0, 51.46N-16.34E, h0km, mb2.4/2, ml3.3/1, Error ellipse: s-maj=12.0km s-min=7.1km az=65.0 62 km NW of Wroclaw Suspected Mining induced.
IDC 04 13:48:38.0-0.9, 51.48N-16.03E, h0km, mbmp3.2/5, ML2.3/5, Error ellipse: s-maj=21.8km s-min=8.4km az=118.0
BGR 04 13:48:38.3-0.3, 51.38N-16.24E, h1km, ML2.9/21, Error ellipse: s-maj=3.3km s-min=2.2km az=39.0
PRU 04 13:48:39.8, 51.34N-16.24E, h0km
ISC 04 13:48:36.2-0.7, 51.47N-0.02-16.26E, h0km, n61, r1505/115, Poland

Main table of station data with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes stations like KSP Ksiaz, MAZK Makanchi, CHVC Chvalec, OSTC Ostas, UJPC Ujpec, DPC Dobruska-Polom, PIVO Bartosovice, PVCC Panska Ves, KRLC Kraliky, BRG Bergglieshubel, BRG Bergglieshubel, BRG Bergglieshubel, STEB Steborice, GOC GO Pecny, Ondr, PRU Pruhonice, MORC Moravsky Berou, MORC Moravsky Berou, HSKC Hora Svate Kat, HSKC Hora Svate Kat, OKC Ostrava-Krasne, OKC Ostrava-Krasne, CLL Collim, CLL Collim, VRAC Vranov, VRAC Vranov, VRAC Vranov, TREC Trest, TREC Trest, KRUC Kruc, KRUC Kruc, ZVC Zvikov, TANN Tannenbergsitha, TANN Tannenbergsitha, NKC Novy Kostel, NKC Novy Kostel, NKC Novy Kostel, JAVC Velka Javorina, JAVC Velka Javorina, NEUB Neuenburg, NEUB Neuenburg, KHC Kasperske Hory, KHC Kasperske Hory, CKRC Cesky Krumlov, CKRC Cesky Krumlov, MANZ Manzenberg, MOX Moxa, ROTZ Rotzenmuhle, ROTZ Rotzenmuhle, ROTZ Rotzenmuhle, GEC2 GERESS Array S, GEC2 GERESS Array S, GERESS GERESS Array B, GERESS GERESS Array B.

Main table of station data with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes stations like GERESS GERESS Array B, MODS Modra-Piesok, WET Wetzlar, WET Wetzlar, VYHS Vyhne, VYHS Vyhne, CONA Conrad OBSva, CONA Conrad OBSva, BSD Bornholm Skovb, BSD Bornholm Skovb, STHS Stebnicka Huta, STHS Stebnicka Huta, BLEU Blekinge, BLEU Blekinge, BJUU Bjur, BJUU Bjur, DEL Delary, DEL Delary, AKASA Main Array B, AKASA Main Array B, HFS Hagfors, HFS Hagfors, FINES FINESS Array B, FINES FINESS Array B, ARCES ARCES Array B, ARCES ARCES Array B, SABA Saba, SABA Saba, PDPDR Patillas Dam, PDPDR Patillas Dam, SJG San Juan, SJG San Juan, MDP Montagnes des, MDP Montagnes des, PCRV Puerto La Cruz, PCRV Puerto La Cruz, MACI Morro de la Ar, MACI Morro de la Ar, SDV Santo Domingo, SDV Santo Domingo, BBTS Babate, BBTS Babate, SADO Sadova, SADO Sadova, SCHO Schefferville, SCHO Schefferville, TKL Tuckaleechee C, TKL Tuckaleechee C, MDT Midelt, MDT Midelt, KUQ Kuujuaaa, KUQ Kuujuaaa, JTS Las Juntas de, JTS Las Juntas de, BDFB Brasilia, BDFB Brasilia, FCAR Folk Cen, FCAR Folk Cen, FRB Frobrisher Bay, FRB Frobrisher Bay, X40A Basin Creek Fa, X40A Basin Creek Fa, DBIC Dimbokro, DBIC Dimbokro, CLF Chambon-Foret, CLF Chambon-Foret, TORD Torodi Ar. Bea, TORD Torodi Ar. Bea, ULM Lac du Bonnet, ULM Lac du Bonnet, LPAZ La Paz, LPAZ La Paz, LPAZ La Paz, CMIG Matias Romero, CMIG Matias Romero, WMOK Wichita Mounta, WMOK Wichita Mounta, BRDY Brady, BRDY Brady, SMWD Samnorwood, SMWD Samnorwood, APMT Aspermont, APMT Aspermont, SUMG Summit, SUMG Summit, AMTX Amarello, AMTX Amarello, POST Post, POST Post, SAND Sanderson, SAND Sanderson, PB11 IPOC Station P, PB11 IPOC Station P, TX31 Lajitas Ar. Si, TX31 Lajitas Ar. Si, TXAR Lajitas Array, TXAR Lajitas Array, NOA NORSAR Array B, NOA NORSAR Array B, NOA NORSAR Array B, ANMO Albuquerque, ANMO Albuquerque, BNM Barro Site, BNM Barro Site, PDAR Pinedale Array, PDAR Pinedale Array, PDAR Pinedale Array, P18A Preston Nutter, P18A Preston Nutter, SRU San Rafael Wee, SRU San Rafael Wee, YHL Hegben Lake, YHL Hegben Lake, MWJ Marville Site, MWJ Marville Site, DUG Dugway, DUG Dugway, EUNU Eureka, EUNU Eureka, YKA Yellowknife Ar, YKA Yellowknife Ar, SPR3 Spring Creek 3, SPR3 Spring Creek 3, ELK Elko, ELK Elko, NEW Newport, NEW Newport.

4d 14h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NEW Newport, FINES FINESS Array B, ARCES ARCESS Array B, etc.

IDC 04 13:59:03.0-330.0,57.83N-29.19E, h0km, Error ellipse: s-maj=131.6km s-min=95.0km az=101.0, Baltic States-Belarus-Northwestern Russia

WEL 04 14:20:03.1,38.445S-176.18E, h8km, ML3.1, Mw3.6, Moment Tensor Solution, s10 Moment tensor: Scale 1014Nm

WEL 04 14:20:03.1-0.3,38.52S-176.61E, h5km, M3.1/77, ML3.6/23, MLv3.1/77 Error ellipse: s-maj=3.0km s-min=2.7km az=148.5, confirmed, North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WPRZ Whakapapatarin, HRZR Handoko Road, GRRZ Galatos Road, etc.

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Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PRGZ Paritu Road, HAZ Te Kaha, TWGZ Tauwharepae, etc.

IDC 04 14:33:07.6-0.6, 1.68S, 122.75E, h0km, mb4.1/16, mbtmp4.1/18, ML4.1/2, MS3.2/8, Error ellipse: s-maj=27.2km s-min=13.1km az=73.0

NEIC 04 14:33:10.8-1.1, 1.82S, 0.02-122.61E, 0.07, h13km, 5km, mb4.8/25, Error ellipse: s-maj=10.3km s-min=1.8km az=101.0

IDC 04 14:33:10.9-1.9, 1.82S, 0.04-122.64E, 0.05, h17km, 12km, n97, r117/109, mb4.6/35, MS3.4/6, 1D, Sulawesi

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LUWI Luwuk, LUWI Luwuk, LUWI Luwuk, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FORT Forrest, FORT Forrest, CMAR Chiang Mai Arr, etc.

IDC 04 14:33:28.9-0.6, 15.07S, 0.09-173.5W, 0.1, h10km, 1km, mb4.4/26, Error ellipse: s-maj=22.2km s-min=11.8km az=303.0

IDC 04 14:33:45.4-4.7, 15.17S, 173.81W, h129km, 41km, mb3.6/10, mbtmp4.0/11, MS3.4/28, Error ellipse: s-maj=28.1km s-min=17.9km az=127.0

IDC 04 14:33:28.9-0.6, 15.09S, 0.09-173.6W, 0.1, h10km, n68, 0.86/41, mb4.4/22, MS3.6/25, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like USRK Ussuriysk, MDJ Mudanjiang, MDJ Mudanjiang, etc.









Table with columns: Jd6L, comp, IAmB, IAmB, 16 52 45.0, etc. Lists various astronomical objects and their properties.

IDC 04 16:53:07.1-2.6, 7.75S: 108.04E, h0km, mb3.8/3, mbtm3.8/3, MS3.3/2, Error ellipse: s-maj=99.1km

NEIC 04 16:53:07.1-2.6, 7.75S: 108.04E, h0km, mb3.8/3, mbtm3.8/3, MS3.3/2, Error ellipse: s-maj=99.1km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists astronomical observations with station names and coordinates.

Table with columns: MSVF, Nonsavu, 3.07 271, P, P, 17 02 11.5 -1.5, etc. Lists astronomical objects and their properties.

IDC 04 17:04:58.4-0.7, 59.92N: 0.04-153.19W: 0.08, h117km, 1km, Error ellipse: s-maj=6.0km s-min=5.2km

IDC 04 17:04:59.2-1.1, 59.98N: 0.03-153.20W: 0.08, h112km, 4km, ML3.0, ML3.1/2, Error ellipse: s-maj=54.4km

IDC 04 17:04:59.6-1.4, 59.98N: 0.03-153.20W: 0.08, h112km, 4km, ML3.0, ML3.1/2, Error ellipse: s-maj=54.4km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists astronomical observations with station names and coordinates.

Table with columns: CNMP, comp, E, 3.27nm, 0.6s, IAML, 17 05 38.3, etc. Lists astronomical objects and their properties.

IDC 04 17:05:15.7-1.5, 56.23N: 0.09-149.32W: 0.1, h10km, 7km, Error ellipse: s-maj=12.9km s-min=8.9km

IDC 04 17:05:15.7-1.5, 56.23N: 0.09-149.32W: 0.1, h10km, 7km, Error ellipse: s-maj=12.9km s-min=8.9km

IDC 04 17:05:15.7-1.5, 56.23N: 0.09-149.32W: 0.1, h10km, 7km, Error ellipse: s-maj=12.9km s-min=8.9km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, etc. Lists astronomical observations with station names and coordinates.



R18K	comp=E,384nm,0.3s	IAML			17 06 45.6
Q23K	comp=N,441nm,0.4s	Pn			17 06 05.8 -0.4
Q23K	comp=N,139nm,0.9s	IAML			17 06 46.1
Q23K	comp=E,192nm,1.1s	IAML			17 06 56.0
Q19K	Cape Douglas	3.51 320	Pn		17 06 07.6 +1.3
BRSE	Bradley Lake S	3.52 348	Pn		17 06 06.4 -0.1
BRBK	Bradley Lake	3.56 347	Pn		17 06 07.3 +0.3
CHIR	Chirikof Islan	3.57 265	Pn		17 06 05.7 -1.4
CHIR	comp=N,95nm,1.3s	IAML			17 06 50.8
CHIR	comp=E,94nm,1.6s	IAML			17 06 53.6
CHIR	Chirikof Islan	3.57 265	Sn		17 06 45.2 -4.1
KAHG	Katmai Hook Gl	3.58 310	Pn		17 06 08.5 +1.2
ACHA	Angle Creek He	3.78 303	Pn		17 06 11.3 +1.3
P23K	Montague Isle	3.83 15	Pn		17 06 10.4 +0.3
P23K	comp=E,154nm,0.6s	IAML			17 07 00.0
P23K	comp=N,143nm,0.6s	IAML			17 07 00.8
ANCK	Angle Creek	3.85 302	Pn		17 06 11.7 +0.6
ANCK	comp=N,126nm,0.3s	Pb			17 06 12.9 -6.9
KAHC	Katmai Hardscr	3.87 310	Pn		17 06 12.5 +1.2
CNTC	Contact Creek	4.07 302	Pn		17 06 14.7 +0.6
SLKM	Skliak Lake	4.24 354	Pn		17 06 16.6 +0.3
SLKM	comp=E,180nm,0.4s	IAML			17 07 06.5
SLKM	comp=N,126nm,0.3s	IAML			17 07 06.7
PLK1	Peulik I	4.25 294	Pn		17 06 17.1 +0.7
HIN	Hinchinbrook I	4.36 19	Pn		17 06 17.3 +0.2
HIN	comp=N,114nm,0.8s	IAML			17 07 18.6
P18K	Big Mountain,	4.42 317	Pn		17 06 19.0 +0.2
P18K	Big Mountain,	4.42 317	IAML		17 07 11.1
P18K	comp=N,103nm,0.3s	IAML			17 07 11.1
KAIM	Kayak Island	4.46 34	Pn		17 06 19.0 -0.3
KAIM	Kayak Island	4.46 34	IAML		17 07 23.6
Q16K	Q16as	4.62 304	Pn		17 06 22.6 +1.2
EYAK	King Salmon	4.64 22	Pn		17 06 22.0 +0.2
EYAK	Cordova Ski Ar	4.64 22	IAML		17 07 20.2
EYAK	comp=N,114nm,0.8s	IAML			17 07 20.5
EYAK	comp=E,82nm,0.6s	IAML			17 07 20.5
FID	Port Fidalgo	4.69 17	Pn		17 06 21.8 -0.8
FID	comp=N,83nm,0.5s	IAML			17 07 14.2
FID	comp=N,64nm,0.7s	IAML			17 07 26.1
O18K	Koktuh Hills	4.73 321	Pn		17 06 23.6 +0.5
O18K	comp=N,49nm,0.5s	IAML			17 07 28.5
O18K	comp=N,71nm,0.7s	IAML			17 07 33.0
RAGM	Ragged Mountai	4.76 29	Pn		17 06 23.4 -0.2
SUCK	Suckling Hills	4.78 36	Pn		17 06 23.6 0.0
SUCK	comp=N,108nm,0.8s	IAML			17 07 22.0
SUCK	comp=E,108nm,0.8s	IAML			17 07 29.6
HMT	Hamilton	4.84 31	Pn		17 06 24.9 +0.4
BGLC	Bering Glacier	4.97 37	Pn		17 06 26.7 +0.4
ANPB	Aniakchak Plen	4.99 279	Pn		17 06 27.1 +0.6
BERC	Berg Lake	5.05 33	Pn		17 06 27.1 +0.4
GRIN	Grindle Hills	5.08 36	Pn		17 06 28.2 +0.3
DIV	Divide	5.17 19	Pn		17 06 29.6 +0.5
DIV	comp=N,42nm,0.7s	IAML			17 07 34.8
DIV	comp=N,42nm,0.7s	IAML			17 07 38.5
N19K	Bonanza Creek	5.26 331	Pn		17 06 31.0 +0.5
BMRM	Bremner River	5.28 26	Pn		17 06 30.6 0.0
BMRM	comp=N,79nm,0.9s	IAML			17 07 38.2
BMRM	comp=N,76nm,0.7s	IAML			17 07 39.2
WAX	Waxell Ridge	5.36 37	Pn		17 06 31.6 -0.2
P16K	Nushagak River	5.40 304	Pn		17 06 32.2 +1.1
KLUI	Klutina	5.49 42	Pn		17 06 32.7 -1.0
MESA	MESA	5.49 42	Pn		17 06 32.7 -1.0
VNHG	Veniaminof I	5.49 273	Pn		17 06 34.2 +0.7
CRQM	Carquois	5.51 33	Pn		17 06 33.5 -0.3
TGL	Tana Glacier	5.50 35	Pn		17 06 34.8 -0.3
YAH	Yakutat	5.63 41	Pn		17 06 34.1 -0.3
VNFG	Fog Glacier, M	5.70 274	Pn		17 06 36.5 0.0
O16K	Kokwok River, B	5.72 309	Pn		17 06 37.5 +1.0
RKAV	Rock Avalanche	5.80 43	Pn		17 06 38.7 +0.9
N25K	Chitina, Valde	5.84 23	Pn		17 06 38.5 +0.1
SAMH	Samovar Hills	5.91 46	Pn		17 06 41.5 +2.1
GRNC	Granite Creek	5.93 39	Pn		17 06 41.5 +2.1
CNBA	Chernabura Isl	6.02 160	Pn		17 06 39.5 -1.1
MCARA	McCarthy VSAT	6.04 30	Pn		17 06 41.4 +0.3
CTGM	Chitina Glacier	6.25 38	Pn		17 06 43.8 -0.3
LOGN	Logan Glacier	6.27 40	Pn		17 06 44.1 -0.3
ECPM	Elcap Mountain	6.25 51	Pn		17 06 43.9 -0.6
O15K	Ungalikthiuk R	6.32 301	Pn		17 06 45.6 +0.8
SDPT	Sand Point	6.36 266	Pn		17 06 44.8 -0.7
L19K	White Mountain	6.54 337	Pn		17 06 47.9 +0.1
O28M	Mount Upton	6.54 43	Pn		17 06 47.8 -0.4
M17K	Hollita River	6.62 324	Pn		17 06 49.2 +0.3
H15K	Kwethuk River	6.77 309	Pn		17 06 49.3 +0.6
M16K	Timber Creek	6.90 317	Pn		17 06 52.4 -0.3
P29M	Windy Craggy	7.00 57	Pn		17 06 50.4 -3.8
O14K	Tiguyakuivet M	7.04 300	Pn		17 06 54.5 -0.1
M27K	Edge Creek, AK	7.16 29	Pn		17 06 55.4 -1.1
S12K	Black Hills	7.17 270	Pn		17 06 55.6 -1.0
S31K	Pelican	7.27 308	Pn		17 06 54.1 -0.3
N14K	Kuskokwak Cree	7.48 304	Pn		17 07 01.9 +1.2
L16K	Owhat River	7.53 320	Pn		17 07 01.9 +0.4
HYT	Haines Junctio	7.65 49	Pn		17 07 03.2 0.0
SIT	Sitka	7.74 79	Pn		17 07 00.6 -3.7
SE	Sitka	7.74 79	Pn		17 07 00.9 -3.4
L27K	Beaver Creek,	7.75 26	Pn		17 07 05.1 +0.6
BCAR	Beaver Creek A	7.77 26	Pn		17 07 05.6 +0.9
RIDG	Independent Ri	7.78 15	Pn		17 07 06.0 +1.1
BPAW	Beaver Paw Mtn.	7.88 355	Pn		17 07 05.9 0.0
K17K	Iditarod	7.88 328	Pn		17 07 06.0 -0.2
M14K	Bethel	7.97 309	Pn		17 07 07.1 +1.2
BESB	Bessie Mountai	8.12 68	Pn		17 07 07.8 -1.8
S32K	Killisnoo	8.15 76	Pn		17 07 06.9 -3.0
N30M	Aishik Lake	8.16 46	Pn		17 07 09.9 -0.2
O30N	Mendenhall	8.23 52	Pn		17 07 10.6 -0.5
R32K	Eaglecrest	8.25 70	Pn		17 07 09.9 -1.4
M29M	Somme Creek	8.27 38	Pn		17 07 12.5 +0.8
CCB	Clear Creek Bu	8.40 4	Pn		17 07 14.3 +1.0
L14K	Kuka Creek	8.57 312	Pn		17 07 16.3 +0.7
IL31	Ilak	8.57 7	Pn		17 07 16.1 +0.4
ILAR	Eielson Array	8.57 7	Pn		17 07 15.5 -0.3
ILAR	comp=N,1.5nm,0.3s,baz=197,slow=13,SNR=5.4	Sn			17 08 49.3 -3.1
ILAR	comp=N,0.4nm,1.8s,baz=226,slow=16,SNR=1.9	LR			17 10 55.9
J17K	VABM Dome	8.63 329	Pn		17 07 16.8 +0.3
K15K	Wolf Creek Mtn	8.65 319	Pn		17 07 17.8 +1.0
N31M	Braeburn, Yuko	8.71 48	Pn		17 07 17.4 -0.2
WHY	Whitehorse	8.72 54	Pn		17 07 19.1 -0.5
MLY	Manley	8.73 368	Pn		17 07 18.8 +0.2
L29M	L29M	8.84 35	Pn		17 07 19.9 +0.4
I23K	Minto, Yukon-K	8.87 360	Pn		17 07 20.6 +0.8
P32M	Atlin	8.92 62	Pn		17 07 18.2 -2.3
I21K	Tanana	8.99 353	Pn		17 07 20.8 -0.7
J16K	Anvik River	9.09 326	Pn		17 07 20.8 -0.8
U33K	White Pass	9.03 85	Pn		17 07 17.7 -4.2
Q32M	Nakina River	9.52 67	Pn		17 07 27.4 -1.4
P33M	Teslin, Yukon	9.52 59	Pn		17 07 28.0 -0.8
H21K	Melozitna River	9.53 351	Pn		17 07 27.7 -1.1
K29M	Barlow Dome	9.56 33	Pn		17 07 27.6 -1.8
AKUT	Akutana	9.65 264	Pn		17 07 28.1 -2.4
K13K	Kusilvak Mount	9.68 312	Pn		17 07 30.2 -0.6
LVA	Lava Point	9.79 264	Pn		17 07 31.8 -0.6
UNV	Unalaska Valle	10.16 263	Pn		17 07 35.8 -1.6
R33M	Jennings River	10.25 65	Pn		17 07 36.7 -2.1
G23K	Bananza Creek	10.44 358	Pn		17 07 41.5 +0.1
J30M	Hart River	10.45 32	Pn		17 07 40.1 -1.5
G24K	Hadweenzin R	10.46 4	Pn		17 07 41.1 -0.5

FYU	Fort Yukon	10.47 9	Pn		17 07 41.2 -0.5
DLBC	Dease Lake	10.62 70	Pn		17 07 44.5 +0.6
DLBC	comp=N,0.7nm,0.3s,baz=231,slow=17,SNR=5.2	Sn			17 09 41.7 -1.1
DLBC	comp=N,1.0nm,0.3s	Sn			17 09 41.7 -1.1
F20K	Avaraut Lake	11.19 347	Pn		17 07 51.2 -0.2
BMAR	Burrat Mountain	11.38 9	Pn		17 07 55.0 +0.9
SPIA	Saint Paul Isl	11.52 283	Pn		17 07 55.1 -0.9
NIKH	Nikolski High	11.79 262	Pn		17 07 58.9 -0.9
E24K	Your Creek	11.81 2	Pn		17 08 00.7 +0.6
H31M	Peel River	11.93 31	Pn		17 08 01.1 -0.5
E21K	Killik River	12.36 352	Pn		17 08 05.8 -1.7
D23K	Nanushuk River	12.72 358	Pn		17 08 12.6 +0.2
BBB	Bella Bella	13.05 100	LR		17 11 56.4
BBB	comp=N,1.2nm,20.7s,baz=274,slow=31	LR			17 11 56.4
INK	Inuvik	14.03 25	Pn		17 08 32.4 +2.2
INK	comp=N,0.3nm,0.3s,baz=192,slow=14,SNR=3.9	Pn			17 08 32.4 +2.2
B20K	Meade River	14.18 349	Pn		17 08 32.1 -0.2
B22K	Teshchukp Lake	14.20 354	Pn		17 08 33.1 +0.6
YKA	Yellowknife Ar	18.54 56	P		17 09 29.1 +0.9
YKA	comp=N,0.1nm,0.3s,baz=270,slow=12,SNR=9.1	P			17 09 29.1 +0.9
NEW	Newport	21.11 99	LR		17 16 38.0
NEW	comp=N,58nm,20.4s,baz=355,slow=32	LR			17 16 38.0
ELK	Elko	27.05 111	LR		17 19 26.1
ELK	comp=N,37nm,21.3s,baz=308,slow=32	LR			17 19 26.1
NVAR	Niway Array	27.24 118	P		17 10 57.6 +1.6
NVAR	comp=N,1.3nm,0.9s,baz=304,slow=8.6,SNR=5.2	P			17 10 57.6 +1.6
PDAR	Pinedale Array	28.69 101	LR		17 22 42.9
PDAR	comp=N,23nm,18.4s,baz=352,slow=37	LR			17 22 42.9
PETK	Petropavlovsk	30.15 287	LR		17 23 12.3
PETK	comp=N,24nm,20.4s,baz=70,slow=36	LR			17 23 12.3
MA2	Magadan	31.03 301	LR		17 25 39.8
MA2	comp=N,25nm,18.3s,baz=92,slow=40	LR			17 25 39.8
PFO	Pinyon Flats O	31.93 121	LR		17 22 58.1
PFO	comp=N,36nm,18.5s,baz=94,slow=33	LR			17 22 58.1
ANMO	Albuquerque	36.00 108	LR		17 24 44.9
ANMO	comp=N,18nm,18.9s,baz=38,slow=33	LR			17 24 44.9
YAK	Yakutsk	39.34 143	LR		17 31 59.5
YAK	comp=N,20nm,18.5s,baz=70,slow=41	LR			17 31 59.5
TXAR	Ajigas Array	41.85 111	P		17 13 03.6 +1.7
TXAR	comp=N,0.1nm,0.3s,baz=289,slow=6.3,SNR=5.6	P			17 13 03.6 +1.7
TXAR	comp=N,0.1nm,0.3s	P			17 13 03.6 +1.7
ASAJ	Asahikawa	44.87 284	P		17 13 17.3 +2.6
ASAJ	comp=N,2.2nm,0.8s,baz=68,slow=5.5,SNR=4.8	P			17 13 17.3 +2.6
ASAJ	comp=N,2.2nm,0.8s	P			17 13 17.3 +2.6
H112N	WAKE ISLAND Hy	48.88 240	T		18 07 19.2
H112N	comp=N,0.5nm,0.4s	T			18 07 19.2
H113N	WAKE ISLAND Hy	48.89 240	T		18 07 17.0
H113N	baz=29,slow=74	T			18 07 17.0
H111N	WAKE ISLAND Hy	48.90 240	T		18 07 13.6
H111N	baz=29,slow=74	T			18 07 13.6
H11S1	WAKE ISLAND Hy	50.02 239	T		18 08 50.3
H11S1	baz=29,slow=76,SNR=7.9	T			18 08 50.3
H11S2	WAKE ISLAND Hy	50.04 239	T		18 08 52.5
H11S2	baz=29,slow=76,SNR=4.6	T			18 08 52.5
H11S3	WAKE ISLAND Hy	50.04 239	T		18 08 39.9
H11S3	baz=29,slow=76,SNR=5.0	T			18 08 39.9
SONM	Songino Array	58.61 310	P		17 15 09.6 +1.0
SONM	comp=N,0.5nm,0.4s,baz=45,slow=6.3,SNR=5.3	P			17 15 09.6 +1.0
SONM	comp=N,0.5nm,0.4s	P			17 15 09.6 +1.0
NOA	NORSAR Array B	61.99 11	LR		17 41 52.2
NOA	comp=N,4.9nm,21.9s,baz=240,slow=36				







Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like MLY Manley, M19K Big River Lodg, L20K Farewell, AK, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like A22K Sinclair Creek, H16K Elim, J14K Nanaranak Lak, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like KST Kastek, KST Kastek, KST Kastek, etc.

NNC 04 19:15:07.0.3.43.19Nk:77.26E, h6km,4km, mpv2.8, Error ellipse: s-maj=5.0km s-min=2.8km az=172.0

KRNET 04 19:15:07.3.0.1.43.23Nk:77.24E, h20km, mb2.5 SOME 04 19:15:07.1.0.8.43.22N:0.03:77.25E:0.02

IDC 04 20:06:30.0.1.9.8.02S:155.93E, h0km, mb3.7/5, mbmp3.7/5, Error ellipse: s-maj=57.9km s-min=31.9km az=105.0

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like HNR Honiara, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 04 20:44:38.6.1.4.7.07S:127.63E, h0km, mb3.6/3, mbmp3.9/6, ML4.2/3, Error ellipse: s-maj=80.5km s-min=23.9km az=77.0

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like SOEI Soe, DRS Darwin Rock St, MTN Manton Dam, etc.

CATAC 04 20:54:55.9.0.6.14.1N:3.9W, h22km,5km, M4.0/19, ML4.0/19, Error ellipse: s-maj=8.5km s-min=3.7km

GCG 04 20:54:56.3.1.4.13.93N:91.58W, h68km,20km, MD4.0, ML4.0

SNET 04 20:54:58.1.0.9.13.95N:91.37W, h13km,9km, ML3.7

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, Power, and other parameters. Includes stations like STG8 El Palmer, RTAL Retalhuleu, RTAL Retalhuleu, etc.

4d 21h

Table with columns: Code, Station Name, Az, El, P, S, Pn, Time, Res. Includes stations like LOAL Lomas de Alarc, SLOZ Alcaaldia de Sa, CEVE Cerro Verde, etc.

INMG 04 20:58:02.6:1.9,40:52N:0:57W, h7km,3km,ML2.6,Error ellipse: s-maj=2.7km s-min=2.3km az=106.0, #DIST\_RANGE: REGIONAL #IPMA\_REGION: NE Teruel (ESP)

Table with columns: Code, Station Name, Az, El, P, S, Pn, Time, Res. Includes stations like EMOS Mosqueruela, E901 Celadas (Terue), ERTA Horta de San J, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, El, P, S, Pn, Time, Res. Includes stations like DUNF Dun, PSIM Granatula de C, FNEB Nbias, etc.

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Table with columns: Code, Station Name, Az, El, P, S, Pn, Time, Res. Includes stations like PMTG, PCAS Casmilo, AGO Saint Agoulin, etc.





4d 22h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MT09, BO04, MT12, MT15, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KIF, KTKI, RNF, RANF, etc.

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Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CMAR, H0S2, H0S3, etc.

0.4nm,0.4s,baz=46,slow=4.0,SNR=7.2
MMAI Mount Meron Arr 150.37 276 PKPbc PKPab 22 58 26.5 +3.3

0.2nm,0.3s,baz=57,slow=3.4,SNR=1.8
AKOS Malin Array Be 153.78 315 PKPbc PKPab 22 58 32.2 -4.7

0.7nm,0.3s,baz=151,slow=3.3,SNR=3.3
TORD Torodi Ar. Bea 157.65 185 PKPab PKPab 22 59 09.2 +1.5

WEL 04 22:38:58.2±0.4,42°S:2'17.4E±1.8,h8km±2km,ML2.5/14,
ML1.1/8.4, Error ellipse: s-maj=3.7km s-min=2.3km
az=141.2, confirmed, Cook Strait

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various stations like Cape Campbell, Kekerengu Vall, Seddon Fire St, etc.

SJA 04 22:59:14.8±0.7,21°49S:66°90W,h232km±6km,ML3.7,
MW3.7

IDC 04 22:59:16.5±8.8,21°30S:66°66W,h227km±61km,mb3.0/2,
mbmp3.7/3, Error ellipse: s-maj=108.4km s-min=43.9km
az=24.0

SCB 04 22:59:16.7±1.6,21°44S:66°94W,h211km±14km,ML4.2/3,
MW3.5, Error ellipse: s-maj=10.1km s-min=6.2km az=0.0

ISC 04 22:59:15.1±0.9,21°51S:0°04.6695W±0.04,h226km±7km,
n51.1±192/69,1C, Southern Bolivia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various stations like Mochera, Yavi, San Pedro de A, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like Mina Guanaco, IPOC Station P, BBOJ, etc.

TORD Torodi Ar. Bea 157.65 185 P P 23 10 35.1 -0.7
comp=2.0,1nm,0.5s,baz=142,slow=1.1,SNR=4.0

ZALV Zalesovo Beam 141.16 26 PKP PKIKP 23 18 20.2 -0.8
comp=2.0,6nm,0.5s,baz=318,slow=5.8,SNR=2.1

ISK 04 23:01:45.0,37°40N:26°95E,h11km,ML2.5/20
AFAD 04 23:01:45.3,37°39N:26°91E,h7km±1km,ML2.2

ISC 04 23:01:45.6±0.9,37°40N:0°02.2693E±0.03,h15km±8km,
n38.0±54/55, Dodecanese Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like Aydin, Gzelcaml?, Yalikavak-BoDr, etc.

GMLD Gumuldur 0.67 359 P P 23 01 57.9 -0.9
comp=0.98nm,0.3s

EMOS Mosqueruela 4.76 357 Pn Pn 23 17 02.1 +2.5
143nm,SNR=1.3

EMOS El Cabril 4.92 302 Pn Pn 23 17 52.8 -1.8
0.6nm,0.7s,baz=139,slow=9.0,SNR=6.8

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

EMOS El Cabril 4.92 302 Pn Pn 23 17 09.3
68nm,SNR=1.2

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like Bouhanifia, Oran, Sidi M'hamed B, etc.

ENIJ ENIJ 2.11 340 Pn Pn 23 16 22.9 -0.1
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

ENIJ ENIJ 2.18 309 Pn Pn 23 16 24.5 +0.6
422nm,SNR=3.6

IDC 04 23:19:49.9±1.5,29°08N:97°43E,h0km,mb3.5/4,
mbmp2.5/6,ML4.3/1, Error ellipse: s-maj=66.2km
az=22.7km az=68.0

ISC 04 23:19:54.7±1.2,29°1N:0°19.57E±0.4,h35km,n6.1±128/6,
mb3.4/4, Xizang

CMAR Chiang Mai Arr 10.65 172 Pn Pn 23 22 24.6 -0.3
0.7nm,0.5s,baz=345,slow=10,SNR=2.3

SOMN Songoing Array 19.98 18 P 23 24 24.4 +0.3
0.3nm,0.4s,baz=209,slow=12,SNR=2.1

MKAR Makanchi Array 21.30 330 P 23 24 38.7 +0.4
0.6nm,0.7s,baz=139,slow=9.0,SNR=6.8

KURBB Kurchatov Arra 25.83 332 P 23 25 23.4 +0.7
0.7nm,0.7s,baz=144,slow=9.1,SNR=5.1

ZALV Zalesovo Beam 26.52 343 P 23 25 26.8 -2.0
0.4nm,0.4s,baz=157,slow=7.8,SNR=1.4

WRA Warramunga Arr 60.34 139 P 23 30 00.7 +0.4
0.6nm,0.7s,baz=322,slow=6.6,SNR=2.3

NOU 04 23:27:17.4,20°11S:175°44W,h0km,mb4.9/13, Tonga
Islands

NEIC 04 23:27:25.1±1.3,20°1S:0°175°2W±0.1,h76km±6km,
mb5.0/24, Error ellipse: s-maj=20.1km s-min=15.7km
az=177.0

IDC 04 23:27:37.5±3.4,20°13S:175°50W,h184km±29km,
mb3.8/13,mbmp4.3/15, Error ellipse: s-maj=20.0km
s-min=15.8km az=97.0

ISC 04 23:27:26.9±0.4,20°06S:0°07'175°11W±0.07,h100km,
n123.0±193/117,mb4.6/23,1C, Tonga Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various stations like Niue, Niue, Niue, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like KNZ Kokoho, RAHZ Arah, NMHZ Naumai, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like ZVC Zvikov, MMAI Mount Meron Ar, KHC Kasperke Hory, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like JFFD Fukushimafurud, JMST Minamisomatoc, JMO Hitachi, etc.

comp=E,0.4nm,0.4s,baz=130,slow=7.2,SNR=2.3  
 KURBB Kurchatov Arra 43.77 314 P P 00 23 32.0 -0.7  
 comp=E,0.3nm,0.6s,baz=96,slow=8.5,SNR=2.8  
 FINES FINES Array B 70.96 330 P P 00 26 41.2 -2.8  
 comp=E,0.8nm,0.9s,baz=82,slow=10.0,SNR=1.6  
 comp=E,0.8nm,0.9s

IDC 05 00:16:38.9;15.0,72.75N;11.98W,h0km,mbmp3.3/5,  
 ML2.8/5,Error ellipse: s-maj=192.4km s-min=50.5km  
 az=126.0  
 BER 05 00:17:23.5;3.5,72.00N;4.80W,h10km,Mw3.6,  
 Confirmed Earthquake  
 ISC 05 00:17:01.3;1.1,70.99N;0.10;7.3W;0.1,h10km,n13,  
 c234/14,Jan Mayen Island region

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
DBG	Daneborg	5.09 317	eP	Pg	00	18 37.5	-1.2
DBG	Daneborg	5.09 317	iP	Pg	00	18 37.3	-1.4
DBG	Daneborg	5.09 317	sP	Pg	00	19 35.3	+3.9
DAG	Danmarks Havn	6.59 337	eP	Pb	00	18 52.2	-3.7
DAG	Danmarks Havn	6.59 337	eP	Pb	00	19 53.7	+0.0
DAG	Danmarks Havn	6.59 337	eP	Pb	00	18 51.3	-4.6
HSPB	Hornsund (broa)	8.66 36	eP	Pn	00	19 53.5	+0.3
HSPB	Hornsund (broa)	8.66 36	eP	Pn	00	19 06.4	0.0
HSPB	Hornsund (broa)	8.66 36	eP	Pn	00	19 17.9	
BRBB	Barentsburg B	9.07 29	eP	Pn	00	19 13.4	+1.3
KBS	Kingsbay	9.33 23	eP	Pn	00	19 19.5	+3.9
SPA0	Spitsbergen Arr	9.48 30	eP	Pn	00	19 19.8	+2.2
SPA0	Spitsbergen Arr	9.48 30	eP	Pn	00	19 21.8	
ARCES	ARCES Array B	11.11 82	Pn	Pn	00	19 37.6	-2.3
NOA	NORSAR Array B	12.43 134	Pn	Pn	00	20 10.2	+1.2
HFS	Hagfors	13.82 131	Pn	Pn	00	20 26.1	+0.5
EKA	Eskdalemuir Arr	15.82 171	P	P	00	20 48.5	+0.8
FINES	FINES Array B	16.26 109	P	P	00	20 52.8	+0.4

ISK 05 00:20:53.8,36.70N;27.02E,h147km,ML2.3/11  
 ATH 05 00:20:54.3,36.68N;26.98E,h144km,ML2.8/2,  
 Manual Solution by A.Fokals First location: 2019/06/05  
 00:22:35, This location: 2019/06/05 06:14:57 ML  
 Amplitudes are expressed in micrometers. All distances  
 are expressed in degrees Latitude uncertainty: 3 km;  
 Longitude uncertainty: 2 km

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
BODT	Bodrum	0.44 35	Op	ISC	00	21 14.7	+0.2
BODT	Bodrum	0.44 35	Op	ISC	00	21 29.3	+0.7
DAT	Datca	0.47 86	Pg	Pn	00	21 14.7	-0.1
DAT	Datca	0.47 86	Pg	Pn	00	21 30.3	0.0
TURK	Turunc	1.01 85	Pg	Pn	00	21 18.4	0.0
TURN	Turunc	1.01 85	Pg	Pn	00	21 36.4	-0.3
ARG	Arkhangelos	1.03 117	Pg	Pn	00	21 18.9	+0.3
ARG	Arkhangelos	1.03 117	Pg	Pn	00	21 36.9	-0.2
ARG	Arkhangelos	1.03 117	Pg	Pn	00	21 19.1	+0.5
KARP	Karpathos	1.16 173	Pn	Pn	00	21 37.3	+0.1
KARP	Karpathos	1.16 173	Pn	Pn	00	21 20.0	+0.2
KARP	Karpathos	1.16 173	Pn	Pn	00	21 19.9	0.0
APC	Apeirantos	1.23 288	P	P	00	21 39.4	+0.1
DALY	Dalyan (Mula)	1.34 84	Pn	Pn	00	21 21.9	+0.4
DALY	Dalyan (Mula)	1.34 84	Pn	Pn	00	21 42.1	-0.2
AYDB	Zeytinokuy-Aydi	1.44 30	Pn	Pn	00	21 22.7	0.0
FEYF	Fethiye	1.68 91	Pn	Pn	00	21 43.9	-0.7
ZKR	Zakros	1.70 202	P	P	00	21 25.9	+0.4
ZKR	Zakros	1.70 202	P	P	00	21 49.7	+0.3
CAMEI	Cameli-Denizli	1.87 82	Pn	Pn	00	21 27.5	0.0
APMY	Acipayam-Deniz	2.00 67	Pn	Pn	00	21 29.0	0.0
AKAS	Kas	2.15 308	P	P	00	21 30.8	-0.1
IDI	Anoyia	2.21 231	Pn	Pn	00	21 30.9	-0.7
ELL	Elmalı	2.34 88	Pn	Pn	00	21 33.4	+0.3
CHAN	Chania	2.66 245	Pn	Pn	00	21 36.1	-0.9
GUR	Goura	3.91 290	Pn	Pn	00	21 54.2	+1.0
KLV	Kalavryta, Ach	4.09 291	P	P	00	21 55.6	+0.2

IDC 05 00:34:10.4;3.3,35.01N;36.47W,h0km,mb3.6/10,  
 mbmp3.6/10,MS3.2/14,Error ellipse: s-maj=96.0km  
 s-min=23.1km az=173.0  
 ISC 05 00:34:12.3;3.0,35.11N;0.6;36.5W;0.2,h10km,n27,  
 c0577/10,mb3.7/10,MS3.2/14,Northern Mid-Atlantic  
 Ridge

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
ESDC	Sonsec Array	26.10 70	LR	LR	00	47 50.9	
EKA	Eskdalemuir Arr	30.55 38	P	P	00	40 25.0	-0.8
SADO	Sadowa	33.77 300	LR	LR	00	52 36.4	
TKL	Tuckaleechee C	38.27 285	LR	LR	00	53 45.8	
GERES	GERES Array B	39.06 54	P	P	00	41 40.8	+1.4
NOA	NORSAR Array B	39.78 34	LR	LR	00	55 53.6	
DBIC	Dimbokro	40.57 127	LR	LR	00	55 10.3	
VRAC	Vranov	40.97 53	LR	LR	00	57 17.6	
ULM	Lac du Bonnet	45.02 309	LR	LR	01	02 48.5	0.0
FINES	FINES Array B	46.89 36	P	P	00	42 42.3	-0.1
H10N2	ASCENSION HYDR47.150	47.150	T	T	01	33 08.6	
H10N3	ASCENSION HYDR47.48	48.150	T	T	01	33 09.0	
H10N1	ASCENSION HYDR47.49	49.150	T	T	01	33 10.0	
MLR	Muntele Rosu	47.65 58	LR	LR	00	59 21.0	
H10S3	ASCENSION HYDR48.42	48.151	T	T	01	34 16.0	
H10S2	ASCENSION HYDR48.43	49.151	T	T	01	34 17.1	
AKASG	Malin Arr B	48.49 50	P	P	00	42 58.4	-0.5
YKA	Yellowknife Arr	54.18 326	P	P	00	43 38.3	+0.8
CMIG	Matias Romero	54.68 267	LR	LR	01	06 09.0	
PDAR	Pinedale Array	55.73 302	P	P	00	43 48.7	-0.7
PDAR	Pinedale Array	55.73 302	P	P	01	07 44.8	
ANMO	Albuquerque	56.15 292	LR	LR	01	07 10.5	
TXAR	Lajitas Array	56.17 284	P	P	00	43 52.7	+0.1
TXAR	Lajitas Array	56.17 284	P	P	01	06 37.6	
NEW	Newport	59.01 310	LR	LR	01	08 46.4	
BELG	Belgorod Arr	59.45 19	LR	LR	01	09 01.7	
ILAR	Eielson Array	66.76 334	P	P	00	45 03.7	+0.2

0.4nm,0.9s  
 KURBB Kurchatov Arra 77.28 36 P P 00 46 06.4 -0.3  
 0.4nm,0.7s,baz=315,slow=5.6,SNR=4.4  
 MKAR Makanchi Array 81.69 37 P P 00 46 30.6 -0.3  
 0.3nm,0.7s,baz=328,slow=6.8,SNR=3.5  
 0.3nm,0.7s

IDC 05 00:50:31.4;0.7,37.17N;134.89E,h374km,8km,mb3.1/12,  
 mbmp3.9/18,Error ellipse: s-maj=13.1km s-min=10.8km  
 az=76.0  
 NEIC 05 00:50:31.7;1.5,37.25N;0.08;135.0E;0.1,h374km,9km,  
 mb4.0/20,Error ellipse: s-maj=13.4km s-min=11.2km  
 az=135.0  
 JMA 05 00:50:31.3;0.1,37.22N;0.6;134.9E;0.7,h376km,1km,  
 MV3.2/57,SEA OF JAPAN  
 ISC 05 00:50:31.5;0.5,37.23N;0.05;134.90E;0.05,h372km,n80,  
 c1506/87,mb3.6/22,Sea of Japan

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
JKY	Yasaka	1.61 174	eP	Pn	00	51 22.7	+0.1
JOY	JOY	1.61 174	eP	Pn	00	52 02.5	-1.0
JKI	OKI	1.63 235	P	P	00	51 22.8	+0.2
JKSM	Kasumi	1.65 187	eP	Pn	00	51 22.4	-0.4
JKS	Suzu	1.97 83	P	P	00	51 25.5	+0.0
JKF	Kurasa	2.56 129	P	P	00	52 14.9	-0.6
JWT	Wajai	1.93 168	P	P	00	51 31.0	+0.7
JYTA	Yamatataniai	2.20 137	P	P	00	51 26.5	+0.2
JYTA	Yamatataniai	2.20 137	P	P	00	52 09.8	-0.6
JGF	Kuroka	2.56 129	P	P	00	51 28.4	-0.6
JGF	Kuroka	2.56 129	P	P	00	51 29.3	+0.3
JGF	Kurasa	2.56 129	P	P	00	51 29.7	-0.1
JHS	Saijyo	2.66 214	eP	Pn	00	52 15.6	-1.2
JHS	Saijyo	2.66 214	eP	Pn	00	52 15.6	-1.2
JNG	Nsakai	2.69 107	Pn	Pn	00	51 30.5	+0.4
MJB9	Matsu-Tunnel	2.73 104	Pn	Pn	00	51 30.1	-0.2
MAJO	Matsushiro	2.74 104	Pn	Pn	00	51 30.2	-0.1
MAJO	Matsushiro	2.74 104	Pn	Pn	00	51 31.0	+0.7
MAJO	Matsushiro	2.74 104	S	S	00	52 18.8	+1.0
MAT	Matsushiro	2.74 104	eP	Pn	00	51 30.7	+0.4
MJAR	Matsushiro Arr	2.74 104	Pn	Pn	00	51 31.1	+0.8
MJAR	Matsushiro Arr	2.74 104	Pn	Pn	00	52 18.5	+0.7
JSD	Sado	2.78 72	P	Pn	00	51 31.6	+0.9
JSD	Sado	2.78 72	eP	Pn	00	51 31.5	+0.9
JNY	Yasuoku	3.04 127	eP	Pn	00	51 33.0	+0.1
JNY	Mitsukihoku	3.19 137	eP	Pn	00	51 34.8	+0.5
JMN	Manobe	3.59 194	Pn	Pn	00	51 39.1	+0.0
JMM	Marumori	4.72 81	Pn	Pn	00	51 48.9	-0.2
JMM	Marumori	4.72 81	Pn	Pn	00	51 50.0	+0.9
JMM	Marumori	4.72 81	S	S	00	52 51.7	-0.4
JNU	Nakatsue	5.26 220	Pn	Pn	00	51 54.8	-0.3
JNU	Nakatsue	5.26 220	Pn	Pn	00	53 01.5	-1.3
JNU	Nakatsue	5.26 220	Pn	Pn	00	51 55.4	+0.4
KSR5	Korea Array	5.57 274	P	Pn	00	51 59.3	+1.1
JTM	Tenmabayashi	5.97 52	Pn	Pn	00	52 02.6	0.0
JTM	Tenmabayashi	5.97 52	Pn	Pn	00	52 03.7	+1.1
JTM	Tenmabayashi	5.97 52	S	S	00	53 13.7	+0.6
TJN	Taejon	6.11 264	P	Pn	00	52 06.9	+2.7
USA0B	Ussuriysk Arra	7.30 343	Pn	P	00	52 18.9	+0.1
USA0B	Ussuriysk Arra	7.30 343	Pn	P	00	52 18.9	+0.2
USA0B	Ussuriysk Arra	7.30 343	Pn	P	00	52 19.5	+0.7
ERM	Erimo	7.96 51	Pn	Pn	00	52 24.4	-0.9
ERM	Erimo	7.96 51	Pn	Pn	00	52 25.6	+0.2
ERM	Erimo	7.96 51	Pn	Pn	00	52 25.7	+0.3
JEM	Elunjiang	8.40 337	Pn	Pn	00	52 37.4	-0.4
ASAJ	Asahikawa	9.02 38	Pn	Pn	00	52 37.4	-0.4
ASAJ	Asahikawa	9.02 38	Pn	Pn	00	54 14.9	-6.4
JKA	Kamikawa-asahi	9.02 38	Pn	Pn	00	52 36.3	-1.5
KLR	Kulund	12.21 350	Pn	Pn	00	53 14.9	-0.2
KLR	Kulund	12.21 350	Pn	Pn	00	55 28.9	-0.1
YHNB	Yeheng	17.05 227	P	P	00	54 07.9	+0.5
HHC	Hu-ho-hao-te	18.47 288	eP	Pn	00	54 21.2	-1.2
HHC	Hu-ho-hao-te	18.47 288	eP	Pn	00	54 21.2	-1.2





Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like GERES, MMAI, STAL, etc.

AEIC 05 01:37:15.7±0.9, 53.83N±0.06, 164.96W±0.07, h48km±10km, Error ellipse: s-maj=13.9km s-min=3.0km az=158.0

NEIC 05 01:37:15.7±0.9, 53.81N±0.06, 164.96W±0.04, h26km±6km, ML2.7/12, ML2.6(AEIC), Error ellipse: s-maj=8.4km s-min=3.3km az=165.0, Unimak Island region

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like AKUT, AHB, AKBA, etc.

BER 05 02:01:22.0±3.2, 71.89N±4.26W, h10km, Mw3.6, Confirmed Earthquake

ISC 05 02:01:23.2±3.5, 72.22N±0.2±4.51W±0.09, h10km, n7, α118/11, Jan Mayen Island region

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like DBG, DAG, HSPB, etc.

NEIC 05 02:18:04.4±1.9, 67.02N±0.02±157.87W±0.03, h10km±1km, Error ellipse: s-maj=4.0km s-min=2.9km az=154.0

AEIC 05 02:18:04.3±1.5, 67.00N±0.02±157.92W±0.04, h6km±6km, ML2.2, ML2.5/106(NEIC), Error ellipse: s-maj=2.5km s-min=2.0km az=151.0, Northern Alaska

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like F19K, E19K, F18K, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like D19K, E17K, H19K, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like AAK, AAK, KBK, CHMS, etc.

RSNC 05 03:04:22.4±0.7, N1°-73W±1, h143km±2km, M3.1, mb3.5, mB6.0, ML2.9, Mw(mB)5.7, Northern Colombia

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like BARC, BANC, BRUC, etc.

IDC 05 03:13:28.4±1.6, 23°64'S±174°57'W, h0km, mb3.8/5, mbtmp3.9/6, ML5.3/1, MS3.4/1, Error ellipse: s-maj=65.2km s-min=25.7km az=161.0

ISC 05 03:13:34.0±1.4, 23.65S±0.3±174°6'W±0.2, h35km, n7, α111/6, mb3.9/5, Tonga Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Op, ISC, Time, Res. Includes stations like MSVF, STKA, ASAR, etc.

IDC 05 03:23:15.9±8.4, 40.76N±142°05'E, h0km, mb3.7/8, mbtmp3.7/9, ML3.2/1, Error ellipse: s-maj=21.2km s-min=21.9km az=172.0

JMA 05 03:23:28.1±0.1, 41°5N/0°4'122°E±0.6, h62km±1km, MV3.1/38, E OFF AOMORI

ISC 05 03:28:21.0, 41.48N±0.05±141.98E±0.07, h65km±8km, n25, α08/20, mb3.7/8, Hokkaido region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like JAH, JAR, JOT, etc.

ISN 05:03:29:02:6.0, 34.47N, 45.52E, h14km, 19km, ML2.8
TEH 05:03:29:02:4, 34.45N, 45.61E, h8km, 24km
ISC 05:03:29:01:8, 10, 34.50N, 0.04, 45.65E, 0.03, h14km, 6km, n14, c067/20, Iran-Iraq border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like KGS, GLG, IDHR, etc.

MOS 05:03:33:03:8:1.3, 34.33N, 45.55E, h14km, mb4.9/35, Error ellipse: s-maj=5.8km s-min=3.1km az=112.8
IDC 05:03:33:03:0:0.5, 34.38N, 45.64E, h0km, mb4.4/31, mbtmp4.4/41, ML4.1/8, MS3.8/24, Error ellipse: s-maj=12.1km s-min=9.7km az=161.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like KGS, GLG, IDHR, etc.

Table with columns: JIR1, Jirandeh, 4.13 54 Pn Pn, 03 34 10.5 +2.2, and other station data.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like HNTI, GHAI, DSI, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like KIV, HRFI, SBVZ, etc.

Table with columns: ERBR, Yeremizino-Bor, 12.04 342 eP Pn, 03 35 58.1 +1.4, and other station data.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like SOHO, UMZA, YLV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station identifiers like WSAR, WSAR, WSAR, etc.



Table with columns: Code, Name, Time, Date, Status, and other details. Includes entries like MK31 Makanchi Array, MKAR Makanchi Array, GORT1 Trebel, etc.

Table with columns: Code, Name, Time, Date, Status, and other details. Includes entries like SONGM Songino Array, LZHZ Lanzhou, PZH PanZhiHua, etc.

Table with columns: Code, Name, Time, Date, Status, and other details. Includes entries like C18K Utukok River, C18K Utukok River, C21K Knifblade Rid, etc.

H18K	Honhosa River	79.08	10	P	P	03 45 09.1 +0.2
H20K	Anotleneega Mo	79.23	9	P	P	03 45 09.7 0.0
H22K	Ishtaltna Cre	79.23	7	P	P	03 45 10.8 +1.0
H21K	Melozitna River	79.31	8	P	P	03 45 11.1 +0.9
H25L	Birch Creek	79.34	5	P	P	03 45 11.3 +1.0
H23K	Yukon River	79.48	6	P	P	03 45 12.1 +1.0
EPYK	Eagle Plains	79.61	1	P	P	03 45 11.4 -0.4
H24K	Noodor Dome	79.61	6	P	P	03 45 12.8 +1.0
H27K	Steamboat Moun	79.61	3	Iamb	Iamb	03 45 13.7
H27K	Steamboat Moun	79.61	3	P	P	03 45 12.5 +0.7
H29M	Whitestone	79.73	2	Iamb	Iamb	03 45 13.7
H29M	Whitestone	79.73	2	P	P	03 45 12.7 +0.3
KAPI	Kappang	79.79	103	LR	LR	04 25 24.0
I21K	Tanana	79.86	7	P	P	03 45 14.1 +0.9
I17K	Unalakleet	79.91	12	P	P	03 45 14.4 +1.1
I20K	Naaghadeneel	79.95	9	P	P	03 45 14.7 +1.1
PRP	Porcupine Dome	80.10	5	P	P	03 45 15.3 +0.7
MLY	Manley	80.14	7	P	P	03 45 15.4 +0.7
I23K	Minto, Yukon-K	80.16	6	P	P	03 45 15.5 +0.8
JCJ	Chichijima	80.18	64	LR	LR	04 25 03.2
H31M	Peel River	80.19	0	Iamb	Iamb	03 45 25.2
H31M	Peel River	80.19	0	P	P	03 45 15.1 +0.1
I27K	Kandik River	80.23	3	P	P	03 45 15.4 +0.2
POKR	Poker Plat Res	80.35	6	P	P	03 45 16.3 +0.5
I26K	Coal Creek Min	80.45	4	Iamb	Iamb	03 45 17.7
I26K	Coal Creek Min	80.45	4	P	P	03 45 16.6 +0.2
I28M	Miner Creek	80.45	2	Iamb	Iamb	03 45 23.3
I28M	Miner Creek	80.45	2	P	P	03 45 16.4 -0.1
J14K	Nanvaranak Lak	80.45	13	P	P	03 45 16.8 +0.5
J16K	Anvik River	80.49	12	P	P	03 45 17.1 +0.6
COLA	College	80.56	6	P	P	03 45 17.9 +1.0
COLA	College	80.56	6	P	P	03 45 17.3 +0.5
J19K	Poorman	80.57	9	Iamb	Iamb	03 45 18.8
J19K	Poorman	80.57	9	P	P	03 45 17.8 +0.8
J20K	Nowinta River	80.58	9	Iamb	Iamb	03 45 18.9
J20K	Nowinta River	80.58	9	P	P	03 45 17.9 +0.8
I29M	Ogivilie Camp	80.59	2	P	P	03 45 17.2 +0.1
J17K	VABM Dome	80.63	11	P	P	03 45 17.7 +0.4
NEA2	Nenana	80.73	6	P	P	03 45 18.0 +0.1
ILAR	Eielson Array	80.74	5	P	P	03 45 18.1 +0.3
ILAR	Eielson Array	80.74	5	P	P	03 45 17.4 -0.5
ILAR	Eielson Array	80.74	5	eP	eP	03 45 17.8 -0.1
ILAR	Eielson Array	80.74	5	pmax	pmax	
I30M	Mount Dempster	80.76	1	Iamb	Iamb	03 45 19.2
I30M	Mount Dempster	80.76	1	P	P	03 45 18.1 -0.1
J18K	Innoko River	80.92	10	P	P	03 45 24.4 +5.5
J18K	Innoko River	80.92	10	Iamb	Iamb	03 45 25.3
J18K	Innoko River	80.92	10	P	P	03 45 19.4 +0.5
K13K	Kusilvak Mount	80.98	14	P	P	03 45 19.8 +0.6
J25K	Salcha River	81.01	5	P	P	03 45 19.4 0.0
BPAW	Bear Paw Mtn.	81.02	7	Iamb	Iamb	03 45 20.7
BPAW	Bear Paw Mtn.	81.02	7	P	P	03 45 19.9 +0.4
CHUM	Lake Minchumin	81.09	8	P	P	03 45 20.2 +0.5
HDA	Harding Lake	81.09	6	P	P	03 45 19.7 -0.1
J26L	Joseph Creek	81.23	4	P	P	03 45 20.2 -0.4
K15K	Wolf Creek Mou	81.25	12	P	P	03 45 21.5 +0.9
K20K	Telida	81.38	9	P	P	03 45 21.8 +0.4
K17K	Iditarod	81.39	11	P	P	03 45 21.8 +0.4
J30M	Hart River	81.41	1	P	P	03 45 21.7 0.0
CAST	Castle Rocks	81.56	8	Iamb	Iamb	03 45 23.7
CAST	Castle Rocks	81.56	8	P	P	03 45 22.8 +0.5
MCK	McKinley	81.58	7	P	P	03 45 22.2 -0.3
SCRK	Sand Creek	81.73	4	P	P	03 45 23.7 +0.3
K24K	Donnelly Creek	81.78	5	P	P	03 45 24.5 +1.0
K27K	Chicken	81.78	3	P	P	03 45 24.2 +0.8
L15K	Ungalak Mouna	81.83	13	P	P	03 45 24.2 +0.5
DAWY	Dawson	81.86	2	P	P	03 45 24.2 +0.3
RIDG	Independent Ri	81.91	5	P	P	03 45 24.5 +0.3
L14K	Kuka Creek	81.91	13	P	P	03 45 24.8 +0.7
RND	Reindeer	81.91	7	Iamb	Iamb	03 45 24.4
L17K	Donlin	81.94	11	P	P	03 45 25.0 +0.7
PPLA	Purkeypile	82.06	8	P	P	03 45 25.8 +0.7
M11K	Mekoryuk	82.06	15	P	P	03 45 26.2 +1.3
L18K	Granite Mouna	82.11	10	P	P	03 45 25.9 +0.7
K29M	Barlow Dome	82.13	1	Iamb	Iamb	03 45 26.8
K29M	Barlow Dome	82.13	1	P	P	03 45 25.8 +0.3
L16K	Owhat River	82.15	12	P	P	03 45 25.9 +0.5
YKAW3	Yellowknife Wh	82.15	351	Iamb	Iamb	03 45 24.5 -0.8
YKAW3	Yellowknife Wh	82.15	351	Iamb	Iamb	03 45 25.9
YKAW1	Yellowknife Wh	82.21	351	Iamb	Iamb	03 45 26.2
YKAW1	Yellowknife Wh	82.21	351	P	P	03 45 26.2 +0.7
YKA	Yellowknife Ar	82.21	351	eP	eP	03 45 24.5 -1.2
YKA	Yellowknife Ar	82.21	351	pmax	pmax	
YKA	Yellowknife Ar	82.21	351	P	P	03 45 25.2 -0.5
L20K	Farewell, AK	82.25	9	P	P	03 45 26.6 +0.6

DHY	Denali Highway	82.37	6	P	P	03 45 26.9 +0.2
L19K	White Mountain	82.41	10	P	P	03 45 27.4 +0.6
PAX	Paxson	82.63	5	P	P	03 45 28.0 0.0
M13K	Dall Lake	82.64	14	P	P	03 45 28.3 +0.4
L26K	Log Cabin Wild	82.71	4	P	P	03 45 28.9 +0.6
M19K	Big River Lodg	82.74	9	P	P	03 45 29.2 +0.6
BCAR	Beaver Creek A	82.76	3	Iamb	Iamb	03 45 28.9 +0.2
L27K	Beaver Creek	82.76	3	P	P	03 45 29.8
L27K	Beaver Creek	82.76	3	Iamb	Iamb	03 45 29.1 +0.5
M17K	Holtina River	82.77	11	P	P	03 45 29.4 +0.7
WAT6	Susitna Watana	82.83	6	P	P	03 45 28.5 -0.7
L29M	L29M	82.85	2	Iamb	Iamb	03 45 30.7
L29M	L29M	82.85	2	P	P	03 45 29.3 +0.2
M16K	Timber Creek	82.88	12	P	P	03 45 30.0 +0.7
M15K	Kasilguk River	82.89	13	P	P	03 45 30.0 +0.8
M20K	Styx River	82.92	9	P	P	03 45 29.9 +0.3
M18K	Stony River	82.93	10	P	P	03 45 30.1 +0.6
SKT	Skwentna	83.03	8	P	P	03 45 29.8 -0.2
HARP	HAARP	83.22	5	P	P	03 45 31.7 +0.8
M26K	Nabesna, AK	83.36	4	Iamb	Iamb	03 45 33.4
M26K	Nabesna, AK	83.36	4	P	P	03 45 32.4 +0.6
MMPY	Sheldon Lake	83.36	359	Iamb	Iamb	03 45 33.9
MMPY	Sheldon Lake	83.36	359	P	P	03 45 32.4 +0.7
M22K	Sheldon Lake	83.40	7	P	P	03 45 32.3 +0.4
N14K	Kuskokwak Cree	83.42	13	P	P	03 45 32.7 +0.7
M24K	Tolsol, Glenn	83.43	6	P	P	03 45 33.1 +0.9
N16K	Nishlik Lake	83.43	12	P	P	03 45 32.7 +0.6
BVCY	Beaver Creek	83.45	3	P	P	03 45 33.0 +0.8
M27K	Edge Creek, AK	83.46	4	P	P	03 45 32.9 +0.5
N15K	Kwethluk River	83.48	13	P	P	03 45 33.0 +0.6
M29M	Somme Creek	83.51	2	P	P	03 45 33.0 +0.4
SML	Sawmill	83.53	7	P	P	03 45 32.7 0.0
SCM	Sheep Creek Mo	83.60	6	P	P	03 45 33.0 -0.1
SUA	Susitna One	83.62	8	P	P	03 45 33.2 0.0
N17K	Nushagak Hills	83.64	11	P	P	03 45 34.0 +0.8
PMR	Palmer	83.67	7	P	P	03 45 34.0 +0.8
N18K	Kilae Creek	83.70	10	P	P	03 45 34.2 +0.7
N20K	Mount Spurr	83.70	9	P	P	03 45 34.0 +0.5
N19K	Bonanza Creek	83.77	10	P	P	03 45 34.9 +0.9
FARO	Faro, Yukon	83.78	360	P	P	03 45 34.5 +0.7
M31M	Drury Creek, Y	83.81	0	P	P	03 45 34.5 +0.5
KNK	Knik Glacier	83.91	7	P	P	03 45 35.1 +0.6
N25K	Chitina, Valde	84.04	5	P	P	03 45 35.7 +0.4
KLU	Y Klutina	84.06	6	P	P	03 45 36.2 +0.8
YUK3	Moose Creek	84.11	3	P	P	03 45 36.4 +0.6
O14K	Tiguykaiwet M	84.12	14	P	P	03 45 36.6 +1.0
TGNT	Hyland Airport	84.36	357	P	P	03 45 37.8 +0.9
MCAR	McCarthy VSAT	84.37	4	P	P	03 45 37.6 +0.8
O17K	Koiganec Bris	84.37	11	P	P	03 45 37.7 +0.8
O15K	Ungalikthiuk R	84.46	13	P	P	03 45 38.1 +0.7
PWL	Port Wells	84.47	7	P	P	03 45 38.0 +0.6
GLI	Glacier Island	84.56	6	P	P	03 45 38.3 +0.5
O18K	Kotah Hills	84.59	10	P	P	03 45 38.6 +0.6
YUK4	Talbot Ar	84.60	2	P	P	03 45 34.8 +0.1
N32M	Quiet Lake	84.66	359	P	P	03 45 40.2 +0.8
CTG	Chitna Glacier	84.88	3	P	P	03 45 40.1 +0.4
P17K	Kvichak River	85.03	11	P	P	03 45 41.1 +0.9
HYT	Haines Junction	85.16	2	P	P	03 45 41.7 +0.7
O30N	Mendenhall	85.23	1	P	P	03 45 41.7 +0.4
BGLC	Bering Glacier	85.61	4	P	P	03 45 43.6 +0.5
O29M	Mount Kennedy	85.65	2	P	P	03 45 43.9 +0.4
P1NM	Mount Elie	85.80	3	P	P	03 45 44.4 +0.3
P33M	Teslin, Yukon	85.80	359	P	P	03 45 43.9 -0.3
P30M	Million Dollar	85.87	1	P	P	03 45 45.1 +0.6
Q17K	Contact Creek	86.01	11	P	P	03 45 44.6 -0.7
Q23K	Middleton Is	86.06	6	P	P	03 45 45.5 +0.2
Q20K	Shuyak Island	86.19	9	P	P	03 45 46.1 +0.2
PNL	Peninsula	86.26	3	P	P	03 45 46.8 +0.4
P29M	Windy Craggy	86.35	2	P	P	03 45 47.3 +0.5
P32M	Atlin	86.43	360	P	P	03 45 47.6 +0.4
PLBC	Pleasant Camp	86.51	1	P	P	03 45 48.7 +0.6
R33M	Jennings River	86.58	358	P	P	03 45 48.7 +0.6
TOAD	Toad River Com	86.86	355	P	P	03 45 50.1 +0.7
KDAK	Kodiak Island	86.97	10	P	P	03 45 50.6 +0.8
KDAK	Kodiak Island	86.97	10	P	P	03 45 49.8 0.0
KDAK	Kodiak Island	86.97	10	pmax	pmax	
KDAK	Kodiak Island	86.97	10	P	P	03 45 51.0 +1.2
Q32M	Nakina River	87.05	359	P	P	03 45 51.0 +0.5
OHAK	Old Harbor	87.41	10	P	P	03 45 52.7 +0.7
DLBC	Dease Lake	87.52	358	P	P	03 45 52.4 -0.2
DLBC	Dease Lake	87.52	358	P	P	03 45 53.4 +0.8
R32K	Eaglecrest	87.75	0	P	P	03 45 54.7 +1.1
S31K	Pelican	88.05	1	P	P	03 45 55.9 +0.9
S34M	Telegraph Cree	88.07	358	P	P	03 45 56.2 +1.0

S32K	Killisnoo	88.56	0	P	P	03 45 58.5 +1.1
SIT	Sitka	88.97	1	P	P	03 46 00.1 +0.8
T35M	Bob Quinn	88.98	358	P	P	03 46 00.7 +1.2
ULM	Lac du Bonnet	89.18	336	LR	LR	04 26 30.1
U33K	Whale Pass	89.91	359	P	P	03 46 05.0 +1.2
V35K	Ketchikan	90.67	358	P	P	03 46 07.4 +0.1
BBB	Bella	93.68	356	LR	LR	04 35 55.4
TKL	Tuckaleechee C	95.87	321	LR	LR	04 31 40.9
NVL	N'azarevna	107.56	191	eP	eP	03 47 41.1 +1.8
NVL	N'azarevna	107.56	191	pmax	pmax	
QSPA	South Pole Qui	124.16	180	PKP	PKIKP	03 52 03.2 +0.3

NAO 05 03:36:02.9, 03:01N-46:65E, h33km, mb4.0  
 MOS 05 03:36:16.2, 01.5, 34:47N-45:67E, h11km, mb4.7/31, Error ellipse: s-maj=6.3km s-min=4.1km az=107.5  
 NEIC 05 03:36:15.6, 1.1, 34:47N-45:75E, h27km, mb4.2/35, mb4.6/135, Error ellipse: s-maj=15.6km s-min=13.1km az=106.0  
 ISN 05 03:36:15.5, 0.4, 34:47N-45:64E, h12km, 32km, ML4.8  
 TEH 05 03:36:16.2, 0.4, 34:45N

5d 3h

KIV	comp=Z,18nm,1.0s		pmax	pmax			
KIV	comp=Z,118nm,13.0s		pmax	pmax			
SOC	Sochi	10.22 335	eP	Pn	03 38 38.5	-3.5	
SOC			e		03 40 32.1		
SOC	comp=Z,6.0nm,0.8s		pmax	pmax			
SOC			MLR	MLR			
EIL	comp=Z,561nm,13.0s	10.26 245	Pn	Pn	03 38 38.9	-3.7	
EIL	comp=Z,3.6nm,0.3s,baz=284,slow=19,SNR=6.6		Lg	Lg	03 41 41.2		
SMRA	comp=Z,5.7nm,0.3s,baz=98,slow=17,SNR=4.0	10.66 154	P	Pn	03 39 46.9	-1.2	
GOF	Gofitskoye	10.79 350	eP	Pn	03 39 00.1	+1.0	
TRNA	Turayna	10.82 152	P	Pn	03 38 49.2	-1.1	
TRNA			S	Pn	03 40 48.4	-2.3	
LABN	Labinsk	10.87 341	eP	Pn	03 38 41.4	-9.4	
LABN			pmax	pmax			
LABN	comp=Z,12nm,0.7s		MLR	MLR			
LABN	comp=E,2um,14.0s		MLR	MLR			
LABN	comp=Z,1um,15.0s		MLR	MLR			
JRN	comp=N,905nm,10.0s	11.35 145	P	Pn	03 38 56.2	-1.2	
SLWR	Garnain Island	11.60 151	P	Pn	03 38 58.1	-1.2	
SLWR	Sila	11.60 151	S	Pn	03 41 05.3	-4.7	
ERBR	Yeremizino-Bor	11.93 342	eP	Pn	03 39 07.9	+2.6	
ERBR			pmax	pmax			
ERBR	comp=Z,30nm,1.9s		MLR	MLR			
ANN	comp=Z,665nm,16.0s	12.12 331	eP	Pn	03 39 15.1	-5.4	
ANN	Anapa		pmax	pmax			
ANN	comp=Z,18nm,1.1s		MLR	MLR			
ANN	comp=N,643nm,12.0s		MLR	MLR			
ANN	comp=Z,844nm,13.0s		MLR	MLR			
ANN	comp=E,634nm,14.0s		MLR	MLR			
GHWR	Ruwais	12.20 147	P	Pn	03 39 07.5	-1.6	
GHWR			S	Pn	03 41 19.9	-4.7	
SHME	Shamm	12.33 130	P	Pn	03 39 10.3	-0.6	
SHME	SNR=7.5						
SHME	Shamm	12.33 130	iPn	Pn	03 39 09.2	-1.7	
SHME	SNR=8.8						
UMQ	Umm Al-Quwain	12.41 133	P	Pn	03 39 12.3	+0.2	
UMQ			S	Pn	03 41 26.2	-3.6	
BANOM	Banah	12.52 130	P	Pn	03 39 12.4	-1.2	
BANOM			S	Pn	03 41 26.7	-5.8	
BANOM	Banah	12.52 130	iPn	Pn	03 39 12.3	-1.2	
BANOM	SNR=12						
BANOM			Sn	Pn	03 41 22.2	-1.0	
ISP	Isparta	12.69 290	P	Pn	03 39 19.7	+3.8	
ISP	Isparta	12.69 290	P	Pn	03 39 19.7	+3.8	
AJN	Ajban	12.76 138	P	Pn	03 39 16.5	-0.3	
AJN	SNR=18						
AJN			S	Pn	03 41 34.5	-3.9	
AJN	SNR=8.3						
AJN	Ajban	12.76 138	iPn	Pn	03 39 16.7	-0.2	
NAZ	Nazwa, Dubai	12.81 135	P	Pn	03 39 17.6	+0.1	
NAZ	SNR=14						
NAZ	Nazwa, Dubai	12.81 135	iPn	Pn	03 39 17.8	+0.2	
MASF	Masafi	12.83 132	P	Pn	03 39 17.5	-0.3	
MASF	SNR=16						
MASF	Esma-Masafi	12.84 132	iPn	Pn	03 41 35.1	-5.0	
MASF			S	Pn	03 39 17.3	-0.6	
MZWFR	Madinat Zayed	12.84 144	P	Pn	03 39 16.7	-1.2	
MZWFR			S	Pn	03 41 35.6	-4.7	
ASUD	AI Ashush, Dub	12.90 137	P	Pn	03 39 18.6	-0.2	
ASUD	SNR=7.5						
ASUD			S	Pn	03 41 37.2	-4.6	
ASUD	AI Ashush, Dub	12.90 137	iPn	Pn	03 39 18.7	0.0	
ASUD	SNR=7.3						
FAQ	AI Faqa, Dubai	12.96 136	P	Pn	03 39 19.4	-0.2	
FAQ	SNR=14						
FAQ	AI Faqa, Dubai	12.96 136	Pn	Pn	03 39 18.5	-1.0	
MDH	Madha	12.97 132	P	Pn	03 39 18.6	-1.0	
MDH	SNR=8.8						
MDH			S	Pn	03 41 38.1	-5.3	
MDH	Madha	12.97 132	iPn	Pn	03 39 18.4	-1.2	
ELL	SNR=5.6						
ELL	Elmali	13.02 285	Pn	Pn	03 39 24.9	+4.5	
ELL	Elmali	13.02 285	Pn	Pn	03 39 25.0	+4.5	
UOSS	Minazif	13.17 133	P	Pn	03 39 20.7	-1.7	
UOSS			S	Pn	03 41 41.2	-7.2	
UOSS	Minazif	13.17 133	Pn	Pn	03 39 20.9	-1.5	
HATD	Hatta, Dubai	13.22 134	P	Pn	03 39 22.1	-1.0	
HATD	SNR=7.2						
HATD	Hatta, Dubai	13.22 134	iPn	Pn	03 41 42.5	-7.0	
HATD			S	Pn	03 39 22.2	-0.8	
ASHO	SNR=6.9						
ASHO	Ashiyah	13.28 134	P	Pn	03 39 23.1	-0.9	
ASHO	SNR=12						
ASHO	Ashiyah	13.28 134	iPn	Pn	03 41 44.8	-6.3	
ALNE	AI Ain	13.59 137	P	Pn	03 39 23.1	-0.9	
ALNE	SNR=8.2						
ALNE	AI Ain	13.59 137	iPn	Pn	03 39 27.7	-0.5	
ZHSF	Zahedan	13.70 106	iP	Pn	03 39 32.8	+3.0	
SIM	Simferopol'	13.73 323	P	Pn	03 39 39.1	+0.6	
SIM			pmax	pmax			
SOHO	comp=Z,19nm,1.1s	13.98 134	P	Pn	03 39 31.8	-1.7	
SOHO			S	Pn	03 41 58.8	-9.2	
SOHO	SOHO	13.98 134	iPn	Pn	03 39 33.0	-0.5	
SOHO	SNR=9.0						
MANT	Manisa	14.34 291	Pn	Pn	03 39 42.1	+3.5	
UMZA	Um Al Zommoool	14.35 142	P	Pn	03 39 37.7	-0.9	
HOQ	Hogain	14.86 134	P	Pn	03 39 46.2	+0.8	
BAND	Balkesir-Ban	15.14 298	iP	Pn	03 39 54.6	+0.4	
KARP	Karpathos	15.20 279	P	Pn	03 39 55.0	+0.1	
BIDO	Bidbid	15.40 132	P	Pn	03 39 51.2	-1.4	
BSY	SNR=5.4						
BSY	Bisya	15.44 136	P	Pn	03 39 53.5	+0.3	
SMDO	Samad	15.69 133	P	Pn	03 39 55.1	-1.5	
SMDO	SNR=7.2						
WSAR	Wadi Sarin	15.92 131	Pn	Pn	03 39 57.0	-2.3	
WSAR	comp=Z,0.1nm,0.3s,baz=130,slow=24,SNR=9.2						
WSAR			S	Pn	03 42 44.0	-1.1	
WSAR	Wadi Sarin	15.92 131	P	Pn	03 39 57.7	-1.6	
WSAR	baz=145,slow=24,SNR=4.6						
WSAR	Wadi Sarin	15.92 131	P	Pn	03 40 00.3	-2.3	
WSAR	SNR=5.5						
NGCH	Negor - Chabah	16.18 120	P	Pn	03 40 03.2	-0.4	
JMDO	Jabal Madar	16.25 135	P	Pn	03 40 03.2	-0.4	
JURR	Jurilovca	16.50 314	iP	Pn	03 40 09.5	+0.2	
TIRR	Tirgusor	16.62 312	P	Pn	03 40 07.3	-0.9	
TIRR	Tirgusor	16.62 312	iP	P	03 40 12.0	+1.4	
TIRR	Tirgusor	16.62 312	P	P	03 40 12.0	+1.4	
TIRR	Tirgusor	16.62 312	P	P	03 40 13.1	+0.6	
ALN	Alexandroupoli	16.79 298	P	P	03 40 13.1	+0.6	
ALN	Alexandroupoli	16.79 298	P	P	03 40 13.1	+0.6	
ALN			pmax	pmax			
TPGR	comp=Z,5.0nm,1.1s	16.83 313	iP	P	03 40 12.8	-0.1	
VRH	Novokhoporsky	16.99 351	eP	Pn	03 40 09.0	-3.8	
VRH			pmax	pmax			
HARR	Harsova	17.04 312	P	P	03 40 16.0	+0.9	
HARR	Harsova	17.04 312	iP	P	03 40 16.1	+0.9	
IDI	Anovia	17.07 279	P	Pn	03 40 14.7	+0.7	
IDI	Anovia	17.07 279	Pn	Pn	03 40 14.7	+0.7	
VORD	Divnogorie	17.15 346	eP	Pn	03 40 14.8	0.0	
VORD			pmax	pmax			
CFR	comp=Z,40nm,0.9s	17.17 314	P	P	03 40 16.4	-0.2	
CFR	Carcailu	17.17 314	iP	P	03 40 16.5	-0.2	
JLN	Jalan Bani Buh	17.20 132	P	Pn	03 40 14.6	-1.1	
RDO	Rodhopi	17.23 299	P	Pn	03 40 16.2	+0.2	
MHTO	MHTO	17.26 138	P	Pn	03 40 15.0	-1.4	
MHTO	SNR=1.0						
VSR	Storozhevoeye	17.41 346	eP	Pn	03 40 17.3	-0.7	
VSR			pmax	pmax			
DOK	comp=Z,20nm,0.8s	17.48 152	P	Pn	03 40 16.0	-3.2	

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VORR	SNR=27	17.84 347	eP	Pn	03 40 22.0	-1.3	
VORR			pmax	pmax			
DQM	comp=Z,30nm,1.0s	17.89 141	P	Pn	03 40 23.9	-0.3	
DQM	SNR=11						
BELG	Belogomoye	17.99 4	P	Pn	03 40 24.4	-0.8	
BELG	comp=Z,2.2nm,0.3s,baz=230,slow=2.6,SNR=5.6						
BELG	Belogomoye	17.99 4	iP	P	03 40 26.0	+0.4	
AB31	Abkulak array	18.18 31	Pn	P	03 40 27.4	-0.1	
ABKAR	Abkulak array	18.18 31	Pn	Pn	03 40 27.2	-0.3	
ABKAR	Abkulak array	18.18 31	Pn	Pn	03 40 26.6	-1.0	
ABKAR			IAMB	IAMB	03 40 40.7		
ABTO	comp=Z,11nm,0.7s	18.34 156	P	Pn	03 40 26.1	-3.7	
AKTO	Aktyubinsk	18.35 26	P	Pn	03 40 29.8	+0.1	
AKTO	comp=Z,0.9nm,0.3s,baz=219,slow=9.4,SNR=5.4						
AKTO	SNR=8.6						
RBK	Rabkut	18.53 153	P	P	03 40 28.6	-3.2	
DMTO	SNR=18						
DMTO	SNR=31	18.62 151	P	P	03 40 30.0	-2.8	
MLR	Muntele Ros	18.66 312	P	P	03 40 33.5	+0.3	
MLR	comp=Z,0.4nm,0.3s,baz=125,slow=16,SNR=4.7						
MLR	comp=Z,1.9nm,0.6s	18.77 316	P	Pn	03 40 35.7	+0.9	
TESR	LPSR	18.77 316	eP	Pn	03 40 33.1	-1.1	
LPSR	Galich'ya Gora		pmax	pmax			
LPSR							
SORM	comp=Z,75nm,0.8s	18.81 322	P	P	03 40 34.9		



Table with columns for station name, time, elevation, and other parameters. Includes stations like SLIT, OSSC, CTI, CTI, CTI, MTSK, etc.

Table with columns for station name, time, elevation, and other parameters. Includes stations like GTA, GTA, GTA, ZAK, ZAK, TORD, etc.

Table with columns for station name, time, elevation, and other parameters. Includes stations like ILON, ILON, ASAJ, ASAJ, MJAR, etc.

Table with columns: F28M, comp, description, time, P, I, A, M, B, time, P, I, A, M, B, time, P, I, A, M, B. Includes stations like Old Crow, Nukluk, Purcell Moun, etc.

Table with columns: I30M, Mount Dempster, time, P, I, A, M, B, time, P, I, A, M, B, time, P, I, A, M, B. Includes stations like Clear Creek Bu, Innoko River, Kusilvak Mount, etc.

Table with columns: M31M, Drury Creek, Y, time, P, I, A, M, B, time, P, I, A, M, B, time, P, I, A, M, B. Includes stations like Knik Glacier, Chitna, Valde, Klutina, etc.

IPEC 05 03:49:00.5:0.2 51.58N:16.17E, h1km, ML2.6/6, Error ellipse: s-maj=1.7km s-min=1.1km az=44.0
IDC 05 03:49:00.9:1.2 51.56N:16.10E, h0km, mbtmp:3.0/5, ML2.6/5, Error ellipse: s-maj=15.4km s-min=9.7km az=126.0

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KSP, KSP, CHVC, CHVC, OSTC, OSTC, etc.



Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like MSWJ, TOZ, CPWZ, PAWZ, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like SAUI, SOEI, SOEI, SOEI, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like KNRD, KNRD, KNRD, KNRD, etc.

ISC 05 04:38:38.0, 2.7, 7.45S, 128.39E, h136km, 25km, mb3.6/9, mbtmp4.1/14, Error ellipse: s-maj=31.1km s-min=13.4km az=64.0

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists various stations like SNVZ, NEZ, WNVZ, etc.

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like CCIG, CCIG, CCIG, etc.

ICD 05:05:33:52.0, 8.56:62N.0, 04:15:71W.0, 03:03:33W.0, 00:03, h100km, 9km, n55, c215/81, Near coast of Chiapas

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like ANPB, ANPB, CHGN, etc.

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like O15K, O15K, O15K, etc.

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like GCG, MEX, CATAC, etc.

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like CNTO, ANCK, ACHA, etc.

Table with columns: Code, Station Name, Az, El, P, S, Pn, Az, El, P, S, Pn. Lists stations like YUK2, F15K, PNL, etc.





TKM2	Tokmak 2	17.08	25	P	Pn	06 41 46.7	-3.1	BRVK	Borovoye	25.53	6dEP	P	06 43 19.6	+0.4	SORM	Soroca	35.51	315	↑P	P	06 44 46.7	-0.8	
WUS	Wushi	17.32	36		Pn	06 41 51.7	-0.9	BRVK				P			MOY	Mondy	35.52	38	eP	P	06 44 48.8	+1.1	
WUS	comp-Z, 65nm, 0.9s				IAMB	06 42 01.5		ASF	Jabal al Asfar	25.53	287	P	06 43 19.3	-0.3	MOY				pmax				
TNSS	Tian-Shan	17.70	27	eP	Pn	06 41 57.2	-0.5	ASF	comp-Z, 0.8nm, 0.5s, baz=90, slow=5.1, SNR=8.7			LR	LR	06 55 37.2	RDO	Rodopi	35.61	303	↑P	P	06 44 46.9	-1.6	
TNSS	Tian-Shan	17.70	27	eP	Pn	06 41 57.3	-0.5	ASF	comp-Z, 358nm, 19.6s, baz=124, slow=42						VRI	Vriocia	35.82	311	↑P	P	06 44 50.8	+0.5	
AAA	Alma-Ata	17.83	27	eP	Pn	06 41 58.9	-0.1	ARPR	Ararip-MALATY	25.60	303	P	06 43 20.8	+0.6	VRI	Vriocia	35.82	311	↑P	P	06 44 50.8	+0.5	
AAA	Alma-Ata	17.83	27	eP	Pn	06 41 58.9	-0.1	GOMU	GeErilu	25.64	344	P	06 43 24.2	+1.5	PLOR	Plostina	35.87	311	↑P	P	06 44 51.5	+0.7	
AAA	Alma-Ata	17.83	27	eP	Pn	06 41 58.9	-0.1	GOMU	comp-Z, 0.8nm, 0.5s			pP	sP	06 43 20.9	+1.6	PLOR	Plostina	35.87	311	↑P	P	06 44 51.5	+0.7
AAA	Alma-Ata	17.83	27	eP	Pn	06 41 58.9	-0.1	GOMU	comp-Z, 2.2nm, 0.8s			S	S	06 47 54.7	+2.4	AKASG	Malin Array Be	36.02	320	P	P	06 44 50.0	-1.9
MDOK	Medeo	17.85	27	P	P	06 42 01.4	+1.4	GOMU	comp-Z, 2.5nm, 0.9s			pmax	pmax		AKASG	Malin Array Be	36.02	320	iP	P	06 44 50.5	-1.3	
MDOK	Przheval'sk	17.85	27	P	Pn	06 41 59.0	-0.3	GOMU	comp-Z, 2.5nm, 0.9s						AKASG	Malin Array Si	36.02	320	iP	P	06 44 51.1	-0.7	
PRZ	Przheval'sk	17.89	31	Pn	IAMB	06 41 58.7	-1.1	GOMU	comp-Z, 2.5nm, 0.9s						AKKB	Malin Array Si	36.02	320	d/P	P	06 44 50.8	-1.0	
PRZ	Przheval'sk	17.89	31	P	P	06 42 17.6		GOMU	comp-Z, 2.2nm, 1.8s			LR	LR		AKKB	Kiev	36.02	320	P	P	06 44 51.1	-0.8	
PRZ	Przheval'sk	17.89	31	P	P	06 42 17.6		GOMU	comp-Z, 2.2nm, 1.8s			LR	LR		KIEV	Kiev	36.02	320	P	P	06 44 51.1	-0.8	
PRZ	Przheval'sk	17.89	31	P	P	06 42 17.6		GOMU	comp-Z, 3.70nm, 18.3s			LR	LR		KIEV	Kiev	36.02	320	P	P	06 44 51.1	-0.8	
LKRN	Lenkeran, Azer	18.05	312	P	P	06 42 01.5	-0.5	GOMU	comp-Z, 3.70nm, 18.3s			LR	LR		TESR	Tescani	36.07	312	↑P	P	06 44 52.2	-0.1	
SATY	Saty	18.34	30	eP	P	06 42 05.1	-0.3	GAZ	Gaziantep	25.94	299	P	06 43 21.6	-1.7	ONER	Baraj Valea Uz	36.07	312	↑P	P	06 44 54.2	+0.8	
SATY	Saty	18.34	30	eP	P	06 42 05.2	-0.3	GAZ	comp-Z, 650nm, 18.6s			IAMB	IAMB	06 43 43.8	ZAK	Zakamensk	36.23	41	eP	P	06 44 54.2	+0.4	
ZHN	Zhinshike	18.44	30	eP	Pn	06 42 06.3	-0.3	VSLR	Vesolyoye	26.15	314	dEP	P	06 43 24.8	-0.2	ZAK	Zakamensk	36.23	41	eP	P	06 44 54.2	+0.4
ZHN	Zhinshike	18.44	30	eP	Pn	06 42 06.3	-0.3	VSLR	comp-Z, 3.0nm, 1.1s						MLR	Muntele Rosu	36.25	310	↑P	P	06 44 54.6	+0.5	
EVN	Everest	18.46	84	IAMB	IAMB	06 42 20.0		SOC	Sochi	26.41	314	eP	P	06 43 25.5	-1.8	MLR	Muntele Rosu	36.25	310	↑P	P	06 44 54.6	+0.5
EVN	comp-Z, 63nm, 1.0s							SOC	comp-Z, 2.25nm, 0.9s			ePPP	PPP	06 44 11.5	TURR	Turia	36.35	311	↑P	P	06 44 55.0	+0.1	
BTLS	Baital	18.67	18	eP	Pn	06 42 22.0	+1.5	SOC	comp-Z, 1.66nm, 18.0s			eS	S	06 47 57.8	-2.6	DOPR	Docpa	36.75	311	↑P	P	06 44 58.0	-0.2
UZB	Uzymbulak	18.69	31	eP	P	06 42 09.0	-0.1	SOC	comp-Z, 4.9nm, 0.9s, baz=85, slow=13, SNR=8.6			eSSS	SSS	06 49 16.5	VOIR	Voire	36.84	310	↑P	P	06 44 59.0	+0.1	
UZB	Uzymbulak	18.69	31	eP	P	06 42 09.2	-0.1	SOC	comp-Z, 4.9nm, 0.9s			pmax	pmax		VOIR	Voire	36.84	310	↑P	P	06 44 59.0	+0.1	
KPKS	Kokpek	18.79	30	eP	P	06 42 09.8	-0.5	SOC	comp-Z, 2.1nm, 0.7s						ARR	Arges	37.11	310	↑P	P	06 45 01.3	-0.1	
KPKS	Kokpek	18.79	30	eP	P	06 42 09.8	-0.5	SOC	comp-Z, 2.1nm, 0.7s						XAN	Xi'an	37.21	69	P	P	06 45 02.5	+0.2	
RAYN	Ar Rayn	18.90	262	P	P	06 42 08.8	-2.8	SOC	comp-Z, 2.1nm, 0.7s			MLR	MLR		XAN	Xi'an	37.21	69	P	P	06 45 02.5	+0.2	
RAYN	Ar Rayn	18.90	262	P	P	06 42 10.9	-0.7	SOC	comp-Z, 1.66nm, 18.0s						XAN	Xi'an	37.21	69	P	P	06 45 10.2	+1.3	
RAYN	Ar Rayn	18.90	262	P	P	06 42 08.8	-2.8	SOC	comp-Z, 1.66nm, 18.0s						XAN	Xi'an	37.21	69	P	P	06 45 10.2	+1.3	
RAYN	Ar Rayn	18.90	262	P	P	06 42 08.8	-2.8	SOC	comp-Z, 1.66nm, 18.0s						XAN	Xi'an	37.21	69	P	P	06 45 10.2	+1.3	
RAYN	Ar Rayn	18.90	262	P	P	06 42 08.8	-2.8	SOC	comp-Z, 1.66nm, 18.0s						XAN	Xi'an	37.21	69	P	P	06 45 10.2	+1.3	
RAYN	Ar Rayn	18.90	262	P	P	06 42 08.8	-2.8	SOC	comp-Z, 1.66nm, 18.0s						XAN	Xi'an	37.21	69	P	P	06 45 10.2	+1.3	
SHLS	Shalkode	18.90	32	eP	Pn	06 42 13.5	+1.4	MMAI	Mount Meron Ar	26.83	289	P	06 43 31.8	+0.5	XAN	comp-Z, 7.0nm, 0.8s			pmax	pmax			
SHLS	Shalkode	18.90	32	eP	Pn	06 42 13.5	+1.4	ATD	Arta Tunnel	26.99	238	P	06 43 33.5	+0.6	XAN	comp-Z, 1.40nm, 5.1s			LR	LR			
SHLS	Shalkode	18.90	32	eP	Pn	06 42 13.5	+1.4	ATD	Arta Tunnel	26.99	238	P	06 43 39.7		XAN	comp-Z, 440nm, 11.7s			LR	LR			
SHLS	Shalkode	18.90	32	eP	Pn	06 42 13.5	+1.4	ATD	Arta Tunnel	26.99	238	P	06 43 39.7		XAN	comp-Z, 600nm, 14.4s			LR	LR			
SHLS	Shalkode	18.90	32	eP	Pn	06 42 13.5	+1.4	ATD	Arta Tunnel	26.99	238	P	06 43 39.7		XAN	comp-Z, 750nm, 17.9s			LR	LR			
MNGR	Mingchevir, A	20.27	315	P	P	06 42 26.9	+0.6	ATD	Arta Tunnel	26.99	238	P	06 43 39.7		XAN	comp-Z, 750nm, 17.9s			LR	LR			
NAX	Nakchivan	20.50	309	P	Pn	06 42 30.2	-0.9	EIL	Eilat	27.23	282	P	06 43 35.5	+0.6	SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
GANJ	Ganja	20.68	314	P	Pn	06 42 31.8	-1.4	EIL	comp-Z, 0.9nm, 0.4s, baz=100, slow=6.1, SNR=1.7					SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9		
OTUK	Ortay	21.10	12	P	P	06 42 34.8	-0.5	EIL	comp-Z, 856nm, 18.1s, baz=77, slow=43					SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9		
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MAK	Makhachkala	21.33	202	eP	S	06 42 33.2	-4.6	EIL	comp-Z, 0.9nm, 0.4s						SOMM	Songino Array	37.21	46	P	P	06 45 03.2	+0.9	
MA																							



Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Teslin, Yukon, DLBO, STKA, BBB, TXAR.

OSPL 05 06:39:26.6:2.0, 18.66N:71.58W, h0km, 25km, ML1.3
SDD 05 06:39:26.3:1.3, 18.69N:71.61W, h23km, 10km, MD2.7, ML1.7

ISC 05 06:39:25.7-1.3, 18.67N:0.03:71.59W:0.03, h20km, 7km, n13, 0567/22, 6C-7D, Dominican Republic region

Main table for Dominican Republic region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Neiba UASD, Jimani, El Espartillar, Presa de Saban, etc.

TIR 05 06:50:50.6:0.4, 91N:20.34E, h9km, 1km, ML2.5/10
ATH 05 06:50:51.8:1.4, 04N:20.43E, h8km, 2km, ML2.6/14, Manual Solution by G. Panopoulou First location: 2019/06/05 06:52:03, This location: 2020/10/15 12:46:06

Main table for Albanian border region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Ohrid, Korca, Tirane, Peshkopia, Nestorio, Florina, etc.

Main table for Afghanistan-Tajikistan border region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Igoumenitsa, Kastanea, Bajram Curri, Podgorica, etc.

NNC 05 06:51:50.1:0.2, 6.37:92N:71.32E, h0km, mb3.8, mpv3.4, Error ellipse: s-maj=15.5km s-min=15.5km az=166.0

ISC 05 06:51:50.1:3.6, 37.5N:0.2:71.3E:0.1, h55km, n11, 05138/16, 8C-3D, Afghanistan-Tajikistan border region

Main table for Afghanistan-Tajikistan border region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Almayashu, Erkin-Say, Karatay Array, etc.

AEIC 05 06:58:37.1:1.0, 53.8N:0.1:165.8W:0.1, h70km, 8km, Error ellipse: s-maj=18.4km s-min=6.6km az=155.0

NEIC 05 06:58:37.9:1.0, 53.7N:0.2:165.8W:0.2, h64km, 21km, ML3.0/10, ML3.0(AEIC), Error ellipse: s-maj=32.9km s-min=15.0km az=153.0, Fox Islands

Main table for Fox Islands with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Akutan Broad B, Akutan ZRO, Akutan Morgan, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Westdahl Beart, Magazine Ridge, Okmok New Cone, Shishaldin Sou, etc.

ICD 05 07:17:48.4:2.5, 20.36S:178.29W, h586km, 23km, mb3.0/5, mbmp3.9/6, Error ellipse: s-maj=36.4km s-min=27.5km az=129.0

ISC 05 07:17:48.3:1.3, 20.4S:0.2:178.3W:0.3, h587km, n7, 0555/8, mb3.5/5, Fiji Islands region

Main table for Fiji Islands region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Nonsavu, Almas Springs, Waramunga Arr, etc.

ICD 05 07:18:20.6:2.6, 21.65S:68.53W, h90km, 23km, mb3.8/12, mbmp4.1/16, Error ellipse: s-maj=21.0km s-min=14.9km az=88.0

SJA 05 07:18:20.6:0.7, 21.75S:68.77W, h121km, 5km, ML4.2, MW4.1

VAO 05 07:18:21.0:1.2, 21.56S:68.70W, h110km, mb4.6

NEIC 05 07:18:22.4:1.6, 21.72S:0.04:68.84W:0.05, h110km, 4km, mb4.5/7, ML4.2(GUC), Error ellipse: s-maj=7.4km s-min=5.4km az=68.0

GUC 05 07:18:23.1:0.8, 21.70S:68.83W, h105km, 4km, ML4.2

ISC 05 07:18:23.0:6.2, 21.74S:0.03:68.82W:0.04, h110km, 5km, n165, 05183/185, mb4.5/40, 2D, Chile-Bolivia border region

Main table for Chile-Bolivia border region with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like IPOC Station P, IPOC Station S, IPOC Station I, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like GO01, PB11, IPOC Station P, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like LCAR, FCAR, Ozark Folk Cen, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like SHME, SHME, SHME, etc.







Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like ASAK Asacha, GORELYY, SKR Severo-Kuril's, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like PUZ Puketiti, RUKZ Raukumara Rang, GRZ Great Barrier, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like RPZ Rata Peaks, GCSZ Gaunt Creek Bo, ARUNDL, etc.

NOU 05 08:25:48.4, 34°18'05.179"747E, h276km, MLV4.8/9, South of Kermadec Islands. IDC 05 08:25:53.9, 53.34°37'S, 179°01'E, h129km, 39km, mb17.3/7, mbmp4.3/8, Error ellipse: s-maj=46.4km s-min=1.4km az=45.0. WEL 05 08:25:58.3, 1.0, 35°5'17.9"E, h12km, M4.5/15, ML-4.6/18, MLV4.9/14, Error ellipse: s-maj=12.3km. IDC 05 08:26:01.7, 0.9, 35°23'S, 015°17.8'E, h201km, 5km, n174, c283/130, mb4.0/7, Off east coast of North Island.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like El Naranjo, Puerto Escondi, Tehuacan, Jalcomulco, Yosondua, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Alcaldia de L, Alcaldia de L, Alcaldia de L, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, ZALV, ZALV, etc.

ATH 05 09:03:04.9, 40°50'N, 207°76'E, h8km, 1km, ML2, 2/12, Manual Solution by G.Panopoulos First location: 2019/06/05 09:04:17, This location: 2020/10/15 13:07:32

ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 0.1 km, Longitude uncertainty: 1 km

TIR 05 09:03:04.3, 40°46'N, 207°79'E, h13km, 1km, Md2, 7/2, M2, 5/4 ISC 05 09:03:04.6, 10°40'N, 03°20'W, h0.4, h12km, 8km, n21, 0°54/32, 1C-3D, Greece-Albania border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Korca, Nestorio, Leskovik, Florina, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like COEG, COEG, COEG, etc.

KOLA 05 09:59:53.5, 64°72'N, 30°72'E, h0km, ML 1.9, Error ellipse: s-maj=23.6km s-min=15.9km az=10.0, Kostomuksha, Karelia

HEL 05 09:59:52.0, 62°47'N, 30°69'E, h0km, ML 1.8, Suspected explosion, Finland-Karelia border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like RMF, RMF, RMF, etc.

NNC 05 09:12:20.0, 0.8, 44°69'N, 81°85'E, h0km, mb3.5, mpv3.0, Error ellipse: s-maj=14.4km s-min=2.5km az=117.0, Suspected Mining explosion.

SOME 05 09:12:20.9, 44°73'N, 81°86'E, h25km, ISC 05 09:12:18.9, 2.3, 44.6N, 0.1, 82.0E, 0.2, h0km, n5, 0°66/9, 3C-3D, Northern Xinjiang

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Jarkent, Podgornoye, Makanchi Array, etc.

NTM 05 09:12:20.9, 44°73'N, 81°86'E, h25km, ISC 05 09:12:18.9, 2.3, 44.6N, 0.1, 82.0E, 0.2, h0km, n5, 0°66/9, 3C-3D, Northern Xinjiang

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MTO3, MTO3, MTO3, etc.

DNK 05 09:59:59.3, 2.2, 60°05'N, 21°54'E, h0km, 12km, ML2.3, IDC 05 10:00:00.8, 1.4, 60°12'N, 21°61'E, h0km, mbtmp2.8/3, ML2.1/3, Error ellipse: s-maj=20.7km s-min=6.3km az=162.0

HEL 05 10:00:00.6, 0.1, 60°06'N, 21°42'E, h0km, ML2.7, Explosion BER 05 10:00:00.2, 1.4, 59°87'N, 21°79'E, h0km, ML2.0, UPP 05 10:00:00.1, 0.7, 60°12'N, 21°42'E, h0km, ML2.8, ISC 05 09:59:59.4, 0.7, 60°04'N, 02°21'47"E, 0.02, h0km, n64, r=1849/100, Finland

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like AAL, AAL, AAL, etc.

ASRS 05 09:19:42.0, 0.6, 54°05'N, 86°50'E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 05 09:19:44.3, 2.7, 54°09'N, 86°60'E, h0km, mbtmp3.0/2, ML2.7/2, Error ellipse: s-maj=21.5km s-min=12.7km az=61.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, ZALV, ZALV, etc.

CRIN San Cristobal 2.28 97 P Pn 09 26 10.4 +0.6

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like QUEN, QUEN, QUEN, etc.

CATAC 05 09:25:34.0, 0.3, 13°N, 2°8'9W, h32km, 2km, M3, 9/39,

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like SGR, SIGRI, PARASKEVI, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like COMU, SKY, SOMA, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like NC204, DOMB, SALU, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JAY Jayapura, JAY Jayapura, JAY Jayapura, etc.

IDC 05 10:15:19.0, 59.71N:22.29E, h0km, mbtmp3.5/5, ML3.0/5, Error ellipse: s-maj=28.9km s-min=8.3km az=158.0

HEL 05 10:15:19.0, 59.71N:22.29E, h0km, ML2.4, Explosion EST 05 10:15:19.0, 59.70N:22.29E, h0km, ML2.4(HEL), Explosion

DNK 05 10:15:21.0, 0.9, 59.77N:21.99E, h0km, ML2.7(UPP), Suspected explosion

UPP 05 10:15:21.0, 0.9, 59.75N:21.86E, h0km, ML2.7 ISC 05 10:15:19.0, 59.76N:0.02:22.26E:0.02, h0km, n62, a=109/86, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HEL1 Helsinki, HEL1 Helsinki, HEL1 Helsinki, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like VSU Vasula, BACU Backbrunna, BACU Backbrunna, etc.

IDC 05 10:24:43.9, 2.2, 59.56N:22.25E, h0km, mbtmp3.0/4, ML2.5/4, Error ellipse: s-maj=32.8km s-min=9.2km az=168.0

HEL 05 10:24:45.9, 0.0, 59.69N:22.29E, h0km, ML2.2, Explosion EST 05 10:24:46.0, 59.69N:22.29E, h0km, ML2.2(HEL), Explosion

DNK 05 10:24:47.4, 0.7, 59.77N:22.09E, h0km, ML2.7(UPP), Suspected explosion

UPP 05 10:24:48.3, 1.0, 59.73N:21.92E, h0km, ML2.7 ISC 05 10:24:43.0, 0.7, 59.70N:0.02:22.26E:0.02, h0km, n46, a=69/64, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like TVF Tvarminne, TVF Tvarminne, TVF Tvarminne, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DNP Denpasar, DNP Denpasar, DNP Denpasar, etc.

EST 05 10:31:41.2, 59.70N:22.29E, h0km, ML2.2(HEL), Explosion

HEL 05 10:31:41.3, 0.1, 59.71N:22.29E, h0km, ML2.3, Explosion LVSN 05 10:31:42.4, 2.1, 59.70N:22.34E, h0km, ML2.5

IDC 05 10:31:42.1, 5.0, 60.00N:22.08E, h0km, mbtmp3.1/4, ML2.7/4, Error ellipse: s-maj=20.2km s-min=5.9km az=162.0

DNK 05 10:31:43.0, 4.0, 59.75N:21.93E, h0km, ML2.7(UPP), Suspected explosion

UPP 05 10:31:44.0, 0.8, 59.73N:21.82E, h0km, ML2.7 ISC 05 10:31:39.0, 0.7, 59.72N:0.02:22.27E:0.02, h0km, n57, a=171/79, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Code Station Name, Code Station Name, Code Station Name, etc.

TRN 05:10:47:09.1,15:24N-61:10W,h146km,MD3.5,East of  
Dominica,Leeward Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like DLPL La Plaine, MDN Morne-Daniel, DWS Wesley, etc.

NEIC 05:10:47:17.1-1.4,32.82N:0.02:118:45W:0.03,h10km,2km,  
Error ellipse: s-maj=4.9km s-min=3.1km az=220.0

NEIC 05:10:47:18.8,33.02N:118:48W,h12km,Moement Tensor  
Solution. Duration: 0 Moment tensor: Scale 10^15Nm;  
Mn:0.17; Mw:4.18; Mw:4.01; Mw:1.70; Mw:1.18; Mw:0.28;

Fault plane solution: Mw:5.5000x10^15 NP1:  
p1:128.52000, s1:76.50000, n1:-167.02000; NP2:  
p2:35.44000, s2:87.38000, n2:-13.84000; Principal axes: T  
4.1802, P1g1.0000, Azm82.0000; N 0.7476, P1g1.0000,  
Azm174.0000; P -4.3278, P1g19.0000, Azm352.0000;

NEIC 05:10:47:18.8,32.82N:118:48W,h12km,  
PAS 05:10:47:18.8,32.82N:118:48W:0.03,h8km,6km,  
Mw4.3/6,mb4.4/58(NEIC),ML4.3/60(NEIC),  
Mww4.4/19(NEIC),Error ellipse: s-maj=4.6km  
s-min=2.2km az=220.0

IDC 05:10:47:20.5:1.1,32.94N:118:23W,h0km,mb4.1/7,  
mbtmp3.9/13,ML3.7/6,MS3.6/12,Error ellipse:  
s-maj=14.4km s-min=11.3km az=13.0

ISC 05:10:47:17.5:1.4,32.84N:0.04:118:43W:0.04,h2km,3gkm,  
n361, s19/05/332, mb4.3/34, MS3.3/6, Off coast of

California

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CIAC Catalina I. Ai, SBI Santa Barbara, FMP Fort Macarthur, etc.

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PMD Palm Desert, BBRC Big Bear Solar, IKP In-Ko-Pah, etc.

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CRAG Craig, WVT Waverly, U33K Whale Pass, etc.

5d 10h

Table with columns: ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Rate Error, Elevation Rate Error. Rows include stations like J26L, EPYK, DHY, etc.

2019 JUN

Table with columns: ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Rate Error, Elevation Rate Error. Rows include stations like G21K, GCSA, M14K, etc.

KRNET 05 10:52:52.0, 1.39°40'N-73°22'E, h22km, mb3.6
SOME 05 10:52:58.2, 39°77'N-73°07'E, h0km
NNC 05 10:53:01.9, 1.4, 39°82'N-73°24'E, h0km, mb3.9, mpv3.5

Error ellipse: s-maj=11.2km s-min=6.3km az=179.0
ISC 05 10:52:53.0, 1.2, 39°47'N-0°05'73.22E, 0.03, h10km, n53,
c207/88, 32C-29D, Tajikistan-Xinjiang border region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Rate Error, Elevation Rate Error. Rows include stations like SFK, DRK, OHH, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Rate Error, Elevation Rate Error. Rows include stations like ULHL, BOOM, CHMS, etc.

MOS 05 10:57:50.2, 0.8, 54°75'N-164°31'E, h50km, mb5.3/60,
MS4, 4/13, Error ellipse: s-maj=4.6km s-min=4.1km
az=94.0

BUJ 05 10:57:52.0, 54°80'N-164°40'E, h10km, mb5.2/51, mb5.1/75,
MS4, 8/74, MS7, 4/774

KRSC 05 10:57:52.5, 1.3, 54°66'N-164°49'E, h2km, mb5.6, MS5.6,
MS5.5, Felt [IV] at kordon Kronoki; [III-IV] at kordon Valley of Geysers; [II-III] at Nikolskoe.

IDC 05 10:57:52.3, 0.4, 54°82'N-164°37'E, h0km, mb4.9/35,
mbmp4.9/40, ML4, 7/6, MS4, 1/77, Error ellipse:
s-maj=11.0km s-min=9.0km az=160.0

NEIC 05 10:57:53.5, 54°71'N-164°43'E, h18km
NEIC 05 10:57:53.5, 1.1, 54°71'N-164°43'E, 0.1, h10km, 1km,
mb5, 4/748, Mmw5, 1/54, Error ellipse: s-maj=14.0km
s-min=9.8km az=164.0

NEIC 05 10:57:53.5, 54°61'N-164°43'E, h18km, Moment Tensor
Solution. Duration: 189 Moment tensor: Scale 1016Nm;
Mr=6.46; Ms=4.73; Mz=1.73; Me2.63; M0=0.09; Mr1.29;
Fault plane solution: M=6.490000\*10^16 NP1=92.460000°,
delta32.340000°, lambda-78.050000°. NP2=258.400000°, delta58.440000°,
lambda-97.470000°. Principal axes: T 5.3582, Plg13.0000°,
Azm354.0000°; N 1.8593, Plg6.0000°, Azm262.0000°; P
-7.2175, Plg75.0000°, Azm147.0000°;

GCMT 05 10:57:56.5, 0.1, 54°78'N-164°43'E, 0.02, h12km,
Mw5, 1/143, Moment Tensor Solution. s95, c126,
s143, c234; Duration: 0 Moment tensor: Scale 1016Nm;
Mr=5.29; Ms=2.07; Mz=1.02; Me=1.02; Ms3.07; Mr2.20;
Ms=0.02; Mr=0.86; Ms=2.2; Best double couple:
Ms5.705000\*10^16 NP1=95.000000°, delta29.000000°,
lambda-79.000000°. NP2=262.000000°, delta62.000000°,
lambda-96.000000°. Principal axes: T 5.1190, Plg17.0000°,
Azm357.0000°; N 1.1700, Plg5.0000°, Azm265.0000°; P
-6.2900, Plg72.0000°, Azm158.0000°; nsta1 refers to
body waves, cutoff=40s. nsta2 refers to surface waves,
cutoff=50s. Triangular moment-rate function

BGR 05 10:58:09.2, 54°86'N-164°74'E, h33km, mb5.0, Ms4.3
ISC 05 10:57:54.3, 0.4, 54°88'N-164°48'E, 0.03, h16km, 2km,
h16km, 9/135, n1351, r130/1070, mb5.3/522, MS4.3/115,
52C-30D, Komandorskiy Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Rate Error, Elevation Rate Error. Rows include stations like BKI, Bering, MKZ, etc.





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Table with columns: ID, Name, baz, SNR, 21, 42, P, 11 03 07.9 -0.9. Rows include J19K Poorman, J19K Poorman, J19K Redstone River, E19K Redstone River, D19K Kuna River, D19K Kuna River, O18K Kokutu, P18K Big Mountain, L19K White Mountain, Q18K Katmai Hardscr, N19K Bonanza Creek, M19K Big River Lodg, F20K Avaraart Lake, H20K Anotleneega Mo, O19K Port Alsworth, CHIR Chirikof Islan, CHIR Chirikof Islan, CHIR Chirikof Islan, I20K Naaghedeneel, I20K Naaghedeneel, K20K Telida, D20K Etluvk River, D20K Etluvk River, E20K Nigu River, J20K Nowinta River, J20K Nowinta River, L20K Farewell, AK, L20K Tiksi, R18K Karluk, HEH Heihe, HEH Heihe, HEH, HEH, HEH, B20K Meade River, Q19K Cape Douglas, Q19K Cape Douglas, M20K Styx River, P19K Oil Pt, SII Sitkinak Islan, SII Sitkinak Islan, SII Sitkinak Islan, G21K Allakaket, JMM Marumori, JMM Marumori, RED Redoubt Volcan, USA0B Ussuriysk Arra, USA0B Ussuriysk Arra, USRK Ussuriysk Ar., USRK Ussuriysk Ar., USRK Ussuriysk Ar., USRK Ussuriysk Ar., F21K Alatina River, F21K Alatina River, H21K Melozitna Rive, H21K Melozitna Rive, O20K Slope Mountain, C21K Knifblad Ridge, CHUM Lake Minchumim, PPLA Purkeypile, PPLA Purkeypile, E21K Killik River, OHAK Old Harbor, OHAK Old Harbor, N20K Mount Spurr, SPCR Spurr Chakacha, CAST Castle Rocks, CAST Castle Rocks, A21K Barrow, B21K Ikpikuk River, I21K Tanana, I21K Tanana, Q20K Shuyak Island, KDAK Kodiak Island, KDAK Kodiak Island, KDAK Kodiak Island, KDAK Kodiak Island, KDAK Kodiak Island, SKT Skwentna, SKT Skwentna, F22K John River, HOM Homer, A22K Sinclair Lake, H22K Ishlaltina Cre, BPAW Bear Paw Mtn, BPAW Bear Paw Mtn, D22K Ayikyak River, D22K Ayikyak River.

Table with columns: ID, Name, baz, SNR, 21, 42, P, 11 03 07.9 -0.9. Rows include G22K Bettles, MLY Manley, MLY Manley, E22K Anaktuvuk Pass, SUA Susitna One, B22K Tesheqook Lake, BRLK Bradley Lake, TRF Thorofore Moun, CUT Chulitna, BRSE Bradley Lake S, MDJ Mudanjang, MDJ Mudanjang, MDJ Mudanjang, MDJ comp-Z,24nm,1.0s, MDJ comp-Z,130nm,9.4s, MDJ comp-Z,960nm,12.4s, MDJ comp-Z,830nm,14.4s, MDJ comp-Z,2um,13.7s, M22K Willow, M22K Willow, SLKM Skilak Lake, COLD Coldfoot, COLD Coldfoot, G23K Banaza Creek, G23K Banaza Creek, G23K Banaza Creek, R201 Rabbit Creek A, H23K Yukon River, D23K Nemshuk River, I23K Minto, Yukon-K, O22K Cooper Landing, NEA2 Nenana, MCK McKinley, PMR Palmer, SEW Seward, SEW Seward, RND Reindeer, E23K Chadiar, C23K Iklikil River, C23K Iklikil River, PSTR Posyet, GHO Glory Hole Cre, BNK Binkian, BNK Binkian, BNK Binkian, BNK comp-Z,24nm,0.7s, BNK comp-Z,200nm,5.2s, BNK comp-Z,620nm,12.5s, BNK comp-Z,1um,12.4s, BNK comp-Z,1um,12.7s, TOLK Toolik Lake Re, WAT1 Susuna Watana, KNK Knik Glacier, KNK Knik Glacier, SML Sawmill, SML Sawmill, E24K Your Creek, COLA College, COLA College, COLA College, COLA College, COLA College, PWL Port Wells, CCB Clear Creek Bu, H24K Noodor Dome, H24K Noodor Dome, D24K Happy Valley, D24K Happy Valley, WAT6 Susitna Watana, MJB9 Matsu-Tunnel, MJB9 Matsu-Tunnel, MAJO Matushiro, MAJO Matushiro, MAJO Matushiro, MAJO Matushiro, MJAR Matushiro Arr, MJAR Matushiro Arr, F24K Squaw Lake, F24K Squaw Lake, POKR Poker Plat Res, POKR Poker Plat Res, M23K Glacier View, G24K Franklin Bluff, G24K Hadweenciz Riv, DHY Denali Highway, DHY Denali Highway, DHY Denali Highway, SCM Sheep Creek Mo, HDA Harding Lake, HDA Harding Lake, IL31 comp-Z,95nm,0.9s, ILAR Eielson Array, ILAR Eielson Array, ILAR comp-Z,0.9nm,0.6s, ILAR comp-Z,736nm,18.1s.

Table with columns: ID, Name, baz, SNR, 21, 42, P, 11 03 07.9 -0.9. Rows include P23K Montague Islan, P23K Montague Islan, P23K Montague Islan, GLI Glacier Island, GLI Glacier Island, G25K Bearman Lake, H25L Birch Creek, M24K Tolsona, Glenn, FID Port Fidalgo, K24K Donnelly Dome, K24K Donnelly Dome, D25K Kavik River, D25K Kavik River, PRP Porcupine Dome, F25K Christian River, F25K Christian River, J25K Salcha River, J25K Salcha River, KLU Klutina, KLU Klutina, E25K Arctic Village, E25K Arctic Village, PAX Faxson, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, JGF Kuroka, HARP HAARP, RIDG Independent R, RIDG Independent R, BMAP Bunt Mountain, F26K Sheek River, N25K Chitina, Valde, N25K Chitina, Valde, DOT Dot Lake, SCRK Sand Creek, SCRK Sand Creek, G26K Porcupine River, G26K Porcupine River, BMRM Bremner River, BMRM Bremner River, J26L Joseph Creek, RAGM Ragged Mountai, C27K Jago River, C27K Jago River, CN2 Changchun, CN2 Changchun, CN2 comp-Z,10.0nm,0.5s, CN2 comp-Z,100nm,6.0s, CN2 comp-Z,600nm,13.0s, CN2 comp-Z,900nm,13.0s, I26K Coal Creek 13, HMT Hamilton, KAIM Kayak Island, KAIM Kayak Island, L26K Log Cabin Wild, BOD Bodaibo, BOD Bodaibo, M26K Nabesna, AK, MCARA McCarthy VSAT, MCARA McCarthy VSAT, CROM Cirque, K27K Chicken, G27K Doyon Strip, CRQE Cirque, E27K Coleen River, I27K Kandik River, H27K Steamboat Moun, H27K Steamboat Moun, L27K Beaver Creek, L27K Beaver Creek, L27K Beaver Creek, BCAR Beaver Creek A, M27K Edge Creek, AK, M27K Edge Creek, AK, D27M Malcolm River, D27M Malcolm River, F28M Old Crow, F28M Old Crow, MESA MESA, MESA MESA, YAH Yahtse, BVCY Beaver Creek, I28M Miner Creek, E28M Babbage River, E28M Babbage River, CTG China Glacier, CTGM Chitina Glacie.



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Table listing various events and locations under the '5d 10h' header, including details like 'J01E Myrtle Point', 'E07A Sunnyside', 'WAH2 Walhuke Slope', etc.

Table listing various events and locations under the '2019 JUN' header, including details like 'HAMF Hammerfest', 'SUMG Summit', 'SUMG Summit', etc.

Table listing various events and locations under the '306' header, including details like 'MDOK Medeo', 'TPNV Topoph Spring', 'FRB Frobiher Bay', etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like KSH, NUUK, PV15, BLYC, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like NB2, NB2, NB2, NOA, RTBA, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like AKASG, AKASG, AKASG, AKKB, etc.

5d 10h

2019 JUN

Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like HKT Hockley, OJC Ojcow, SOC Sochi, N58A Sunbury, GGN Saint George, KSP Ibbenbun, CLL Colim, etc.

Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like VRAC Vranov, MTN Manton Dam, MSVF Nonsavu, TESR Tescani, W52A Murphy, X51A Calhoun, etc.

Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like ILGA ligaz, PERS Pernice, WATA Walderalm, RETA Reutte, ARPR Aravir-MALATY, etc.



Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like PSARD Sardoal, PMRV Marv???, RAYN Ar Rayn, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like MTSE Matsula, AAL Aland, MEF Metsahovi, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like NYNU Mynaeshamn, NYNU FLYMYR, NYNU KANKAANPAA, etc.

DNK 05 11:00:07.0, 3.5759N x 12.08E, h0km, ML1.0 (UPP), Explosion, Sweden

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like ONAU Onsala, CNRU Boras, etc.

DNK 05 11:00:06.5, 1.9, 56.05N x 14.00E, h0km, ML1.4, Suspected explosion, Sweden

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like DEL Delary, LUNU Lund, etc.

TEH 05 11:12:32.5, 32.67N x 47.20E, h7km, 39km, IRAN-IRAQ border region

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like IKFM Kafar-mosalmal, IBDR Badra, etc.

STR 05 11:00:05.1, 0.46N x 3.33E, h0km, MLV1.4/6, Error ellipse: s-maj=0.0km s-min=0.0km az=5.5, preliminary, France

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like SSB Saint Sauveur, COLF Collangettes, etc.

DNK 05 11:00:05.9, 0.7, 59.58N x 12.22E, h0km, n73, Explosion, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like TVF Tvarminne, TVF Soera, Palade, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

EST 05 11:08:06.8, 59.54N x 22.13E, h0km, ML1.8 (HEL), Explosion

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like TVF Tvarminne, EE06 Soera, Palade, etc.

HEL 05 11:08:07.3, 59.56N x 22.07E, h0km, ML2.2, Explosion

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like GRAU Graeseo, GRAU Graeseo, etc.

JMA 05 11:07:00.2, 0.2, 40.1N x 0.7, 144.0E, 0.9, h33km, MV3.8/34, FAR E OFF SANRIKU

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

LVSN 05 11:08:09.4, 5.9, 59.62N x 22.54E, h0km, 81km, ML2.2

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like TVF Tvarminne, EE06 Soera, Palade, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

EST 05 11:08:09.9, 1.9, 59.70N x 22.26E, h0km, mbmp3.0/4, ML2.3/4, Error ellipse: s-maj=25.2km s-min=6.5km az=162.0

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like TVF Tvarminne, EE06 Soera, Palade, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

LVSN 05 11:08:09.9, 4.5, 59.62N x 22.54E, h0km, 81km, ML2.2

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like TVF Tvarminne, EE06 Soera, Palade, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.

IRN 05 11:16:56.8, 0.9, 40.02N x 144.42E, h0km, mb3.7/10, Off east coast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like JTH Tanohata, MIYJ Miyakonagasawa, etc.



Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like ULHL, CHMS, USP, TKM2, MKAR, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like KBZ, SHAI, KIV, GOF, MARD, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like AAK, FRU1, SVGS, CHMS, etc.

ADC 05 12:33:01.5:0.5,40.61NK:51.84E,h0km,mb4,3/28, mbmp4.4/38,ML4.5/10,MS3.5/41, Error ellipse: s-maj=11.0km s-min=6.5km az=168.0

MOS 05 12:33:05.6:1.1,40.78N:51.87E,h38km,mb4.8/25, Error ellipse: s-maj=4.6km s-min=3.8km az=32.4

NEIC 05 12:33:07.8:1.2,40.76N:0.07:51.93E:0.08,h39km,8km, mb4.7/147, Error ellipse: s-maj=10.3km s-min=8.9km az=179.0

AZER 05 12:33:07.3:40.39N:51.95E,h62km,mb5.3,m4.8,ms2.5 NNC 05 12:33:15.4:1.3,41.33N:53.71E,h0km,mb4.7, Error ellipse: s-maj=16.4km s-min=9.2km az=88.0

ISC 05 12:33:08.2:0.6,40.73N:0.03:51.96E:0.03,h43km,5km, n687,r197/674,mb4.6/137,MS3.5/34,59C-24D, Caspian Sea

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like GALA, NDR, GOBA, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like BELG, VRH, DZET, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like ELL, OBNS, MZR, etc.

5d 12h

Table with columns: Call sign, Name, Time, Frequency, Mode, and other parameters. Includes stations like UZB, BURAR, KURB, etc.

Table with columns: Call sign, Name, Time, Frequency, Mode, and other parameters. Includes stations like MORC, MODS, KRLC, etc.

Table with columns: Call sign, Name, Time, Frequency, Mode, and other parameters. Includes stations like EKA, ESK, SONM, etc.



Table with 7 columns: R3d, 53M, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like Jennings River, Toad River Com, DLBO, Eaglecrest, etc.

Min-0.08; Mx0.40; Mx-0.32; Mx1.11; Mx0.75; Mx0.67; Fault plane solution: M2.54830x1016 NP1.38.29983; ...

Table with 7 columns: PCAYA, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like Pacayas, ACOS, VTCV, etc.

NNC 05 12:49:20.15:0.41:33N:83.95E, h0km, mb3.9, mpv3.5, Error ellipse: s-maj=32.9km s-min=19.9km az=137.0

SOME 05 12:49:22.7:2.9, 41.3N:01.8342E:0.1, 9.0km, n11, ISC 05 12:49:22.7:2.9, 41.3N:01.8342E:0.1, 9.0km, n11, #2662/16, 5C-6D, Southern Xinjiang

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like SHLS, SHLS, SHLS, etc.

NEIC 05 13:14:23.0:1.5, 6.43N:01.09:82.60W:0.04, h10km, 2km, mb4.5/32, Mw4.3/11, Error ellipse: s-maj=14.9km s-min=6.2km az=187.0, Moment Tensor Solution. ...

NEIC 05 13:14:23.0:1.5, 6.43N:01.09:82.60W:0.04, h10km, 2km, mb4.5/32, Mw4.3/11, Error ellipse: s-maj=14.9km s-min=6.2km az=187.0, Moment Tensor Solution. ...

RSNC 05 13:14:24.2:1.5, 6.4N:4.83W:0.1, h27km, 20km, M4.2, mb5.2, mb4.8, ML3.9, Mw(mB)4.6, ISC 05 13:14:20.8:3.5, 6.38N:0.06:82.61W:0.04, h4km, 22km, n310, #1907/310, mb4.5/15, MS3.4/25, 14C-13D, South of Panama

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like BELE, BELE, BELE, etc.

KOLA 05 13:09:28.4:68.12N:33.26E, h0km, ML1.9, Error ellipse: s-maj=2.7km s-min=1.5km az=90.0, Olenegorsk City, Mines

IDC 05 13:09:29.9:2.0, 68.21N:32.83E, h0km, mbmt3.6/2, ML2.3/3, Error ellipse: s-maj=23.0km s-min=13.9km az=60.0

ISC 05 13:09:26.7:0.8, 68.14N:0.00:33.23E:0.05, h0km, n12, #093/20, Baltic States-Belarus-Northwestern Russia

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like APA0, APA0, APA, etc.

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like ISECA, ISECA, ISECA, etc.

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like JTS, JTS, JTS, etc.

IDC 05 13:11:45.2:1.8, 18.98S:172.20W, h0km, mb3.7/4, mbmt3.7/4, Error ellipse: s-maj=51.6km s-min=42.7km az=144.0, Tonga Islands region

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like ASAR, ASAR, ASAR, etc.

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like OCHAL, OCHAL, OCHAL, etc.

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like APAC, APAC, APAC, etc.

UPA 05 13:14:22.1:1.8, 6.39N:82.57W, h8km, 11km, MW4.8, IDC 05 13:14:22.4:1.6, 6.68N:82.67W, h0km, mb4.0/6, mbmt4.2/9, ML2.8/3, MS3.4/29, Error ellipse: s-maj=45.3km s-min=21.1km az=26.0

UCR 05 13:14:23.2:1.6, 6.37N:82.62W, h36km, 990km, MW4.3, CATAQ 05 13:14:23.9:0.6, 6.14N:4.83W:0.1, h24km, 7km, M5.1, 25, mb5.3/17, mb5.5/14, MLv5.3/25, Mw(mB)4.9/14, Error ellipse: s-maj=10.1km s-min=3.7km az=28.7, Moment Tensor Solution. Moment tensor: Scale 10^16Nm

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like PITB, PITB, PITB, etc.

Table with 7 columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Res. Includes stations like BOAB, BOAB, BOAB, etc.



Table with columns: ORTC, ARGV, PRAC, SJCC, etc. Listing station names, coordinates, and data points.

Table with columns: BCAR, SUMG, ILAR, etc. Listing station names, coordinates, and data points.

Table with columns: ENTT, ENA, ENA, etc. Listing station names, coordinates, and data points.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SNST, CHN1, JISG, etc.

3.2nm,1.0s
NEIC 05 14:32:07.2-1.4, 32.78N, 0.03-118.50W, 0.02, h10km, 1km,
Error ellipse: s-maj=5.1km s-min=2.9km az=29.0
PAS 05 14:32:09.6-2.0, 32.84N, 0.02-118.50W, 0.02, h8km, 8km,
Mw4.3, mb4.1/18(NEIC), ML4.1/64(NEIC),
Mww4.4/29(NEIC), Error ellipse: s-maj=4.1km
s-min=2.3km az=66.0
IDC 05 14:32:11.1-1.3, 32.94N-118.31W, h0km, mb3.9/7,
mbtmp3.9/12, ML3.8/4, MS3.5/42, Error ellipse:
s-maj=16.4km s-min=12.4km az=24.0
ISC 05 14:32:07.8-1.5, 32.80N, 0.04-118.47W, 0.03, h2km, 9km,
n195, a1908/157, mb4.1/12, MS3.6/35, Off coast of

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CIAC, SBI, FMP, etc.

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PMPB, 113A, V12A, etc.

BER 05 13:59:59.6-1.7, 59.83N, 21.79E, h0km, ML2.2(HEL),
Suspected explosion
HEL 05 14:00:00.5-0.1, 60.08N, 21.44E, h0km, ML2.2, Explosion
IDC 05 14:00:01.2-1.4, 60.30N, 21.36E, h0km, mbtmp2.6/4,
ML2.1/4, Error ellipse: s-maj=26.5km s-min=6.7km
az=164.0
ISC 05 13:59:59.4-0.7, 60.15N, 0.03-21.48E, 0.03, h0km, n38,
a1503/54, Finland

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AAL, AAL, RAF, etc.

KOLA 05 14:25:14.0, 67.67N, 34.27E, h0km, ML2.2, Error ellipse:
s-maj=6.6km s-min=3.2km az=120.0, Murmansk region,
Kirovsk district
IDC 05 14:25:16.6-2.1, 67.84N, 33.90E, h0km, mbtmp3.2/3,
ML2.4/3, Error ellipse: s-maj=24.3km s-min=14.1km
az=63.0
ISC 05 14:25:13.7-1.1, 67.71N, 0.04-34.15E, 0.05, h0km, n13,
a1512/21, Baltic States-Belarus-Northern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LVZ, LVZ, APA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like H11N2 WAKE ISLAND Hy, MDP Montagnes des, H11N1 WAKE ISLAND Hy, etc.

IDD 05 14:55:09.7±1.4, 3.49S; 135.30E, h0km, mb3.8/3, mbtmp3.7/6, ML3.5/3, MS3.1/2, Error ellipse: s-maj=38.0km s-min=26.2km az=88.0

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like Code Station Name, KMPI Kaimana, Papua, SRPI Serui, etc.

IDD 05 15:04:25.8±5.4, 5.671S; 26.73W, h185km, 47km, mb3.8/5, mbtmp4.2/6, MS3.3/1, Error ellipse: s-maj=35.1km s-min=13.1km az=66.0

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like VN1 Neumayer-Stat, VN3 Neumayer Olymp, VN2 Neumayer-Watz, etc.

FINES FINESSE Array B 124.94 28 PKP PKPdf 15 23 01.6 -2.1 comp=Z:0.7nm,0.5s,baz=186,slow=3.8,SNR=7.0

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like APA Apatity, LVL Lovozero, LVL Lovozero, etc.

IDD 05 15:21:55.2±10.0, 22.12S; 176.72W, h285km, 94km, mb3.3/3, mbtmp4.2/5, Error ellipse: s-maj=64.2km s-min=25.3km az=49.0

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like ARAO ARCESS Array B, ARCES ARCESS Array B, ARCES ARCESS Array B, etc.

IDD 05 15:01:57.3±2.0, 22.4AS; 0.2±176.8W, 0.2, h300km, n6, ±191.9E, mb3.6/3, Error ellipse: s-maj=42.9km s-min=34.3km az=153.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like DZM Mont Dumac, URZ Urewera, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like CMAR Chiang Mai Arr, KURBB Kurchatov Arr, ZALV Zalesovo Beam, etc.

VAO 05 16:19:38.1±0.7, 27.49S; 70.26W, h43km, 5km, mb5.6 MOS 05 16:19:40.2±1.2, 27.37S; 70.02W, h74km, mb5.7/13, Error ellipse: s-maj=12.3km s-min=6.3km az=96.3

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like GUC 05 16:19:42.8±0.8, 27.41S; 70.24W, h91km, 3km, ML5.4, NEIC 05 16:19:42.4±1.9, 27.42S; 0.04; 70.19W, 0.06, h75km, 3km, etc.

IDD 05 16:19:42.5±0.3, 27.37S; 70.00W, h87km, 2km, mb4.8/18, mbtmp5.1/23, MS4.1/43, Error ellipse: s-maj=14.0km s-min=8.8km az=75.0

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like G003 Copiapo, G003 Copiapo, G003 Copiapo, etc.

IDD 05 16:19:42.5±0.3, 27.37S; 0.02; 70.24W, 0.03, h84km, 2km, h84km, P-P, n79.0, ±192.639, mb5.7/320, 21C-30D, Near east of northern Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, ISC, Time, Res, h, m, s, ISC. Includes stations like AGUA GUANDACOL, CO05 La Serena, CO05 La Serena, etc.









Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Rows include stations like BNX, SONM, ULN, KSRs, XLT, LSA, GOMU, GTA, BJI, HMC, CMAR, BTO, HNS, LHZ, XAN, ENH.

IDC 05 17:02:32.0, 8.54, 95N, 164.45E, h0km, mb3.9/22, s-maj=21.1km s-min=13.8km az=149.0

KRCS 05 17:02:32.2, 1.4, 54.71N, 164.48E, h50km, 24km, M4.3, NEIC 05 17:02:33.1, 1.4, 54.9N, 0.2, 164.3E, 0.2, h10km, 2km, mb4.0/22, Error ellipse: s-maj=31.3km s-min=14.4km az=148.0

MOS 05 17:02:34.7, 0.8, 54.77N, 164.45E, h40km, mb4.3/1, Error ellipse: s-maj=6.1km s-min=5.3km az=72.8

ISC 05 17:02:33.2, 2.0, 54.74N, 0.04, 164.55E, 0.05, h15km, 13km, n170, 0.1828/196, mb4.1/44, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Rows include stations like AML, EKS2, KBK, ULHL, CHMS, USP, TKM2, BVAR, ZALV, HFS, TORD, ASAR.

IDC 05 17:01:10.3, 0.8, 24.30N, 72.86E, h0km, mb3.9/15, mbtmp3.9/17, ML3.9/2, MS3.1/1, Error ellipse: s-maj=21.5km s-min=15.2km az=47.0

NEIC 05 17:01:12.4, 1.7, 24.54N, 0.08, 72.74E, 0.08, h10km, 2km, mb4.0/22, Error ellipse: s-maj=17.8km s-min=3.8km az=138.0

NDI 05 17:01:13.0, 2.6, 24.29N, 72.75E, h10km, ML4.1, MW4.0, mb4.0/(NEIC)

ISC 05 17:01:11.2, 0.5, 24.34N, 0.05, 72.78E, 0.04, h10km, n78, 0.2508/84, mb4.1/24, Northern India

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Rows include stations like BHJU, BKNR, GUNA, BHPL, BHPL.

Main table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Rows include stations like LDR, NPLP, POO, DDI, DHRM, JOSI, KLP, NIL, PYUN, KOLN, KBL, GKN, KNTI, DMN, GUN, RAMN, WSAR, EVN, ODAN, SIMJ, KSH, ARSB, LSA, LSA, WUS, AAK, PALK, PRZ, KK31, KKAR, MAKZ, MKAR, CHTO, CM31, CMAR, CMAR, PZH, KURB, KURK, AB31, ABKAR, ABKAR, ABKAR, GTA.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Rows include stations like BVAR, LZH, SONM, SONM, SONM, SONM, BURAR, NRIK, KSRs, FINES, USRK, USRK, KLR, ARCES, HFS, SEY, TORD, WRA, ASAR, ILAR, BKI, BKI, BKI, KBTR, KBTR, KBTR, KBG, KBG, KBG, TUMD, TUMD, TUMD, ZLN, ZLN, ZLN, BZGR, BZGR, BZGR, SMKR, CIRR, CIRR, LGNR, LGNR, BZMR, BZMR, BZMR, BZWR, BZWR, BZWR, KMNR, KMNR, KIRR, KIRR, KIRR, KRRS, KRRS, KRRS, KLY, KLY, KPT, KPT, KOZ, KOZ, KOZ, SPZ, SPZ, SPN, SPN, SRDR, SRDR, SRDR, NLC, NLC, NLC, ESO, ESO, ESO, SDLR, SDLR, SDLR, SMAR, SMAR, SMAR, KRRR, KRRR, KRRR, UGLR, UGLR, UGLR, AVH.

2019 JUN

5d 17h

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes stations like AVH Avacha, KRX Arik, KOK Koryaka, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes stations like SONM, NRK, H1S1, YKA, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes stations like USHA, USHA, USHA, etc.



5d 17h

Table with columns: FETA, BGF, KOSI, ZIAN, BFO, CGRP, SFTF, CASP, RIBO, RETA, TCF, SQT, MOTA, PAGF, MEZF, HYF, MTLF, SAVF, WTTA, WATA, ABTA, LFF, LES, KBA, MYKA, MFF, TNS, DOU, OBKA, BMRD, BTES, BOLA, BTNL, MEM, MOA, ETSF, GERES, KHC, LDF, SJPF, CKRC, ARSA, FLN, GRR, ZVC, CONA, RONA, TREC, SGMF, QUIF. Each row contains station name, frequency, and other technical details.

2019 JUN

Table with columns: QUIF, ROSF, KRLC, ESDC, EKA, FINES, KURBB, MKAR, VIE, LDG, PRU, BUG, STR, Code, Station Name, Az, Phase ID, Time, Res. Contains various station listings and technical parameters.

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Table with columns: BALST, DAVOX, DAVOX, OPP, STU, RETA, RETA, GALG, TUE, TUE, TUE, HDH, FUSIO, FUSIO, BABA, BABA, URBA, BOURR, BOURR, FETA, FUORN, FUORN, FUORN, BERNI, BERNI, BERNI, WLS, BRET, MOTA, ECH, ECH, MOSI, MOSI, MOSI, NORI, NORI, SQA, HINF, HINF, HINF, FUR, FUR, WOER, WOER, WOER, ROTT, CARE, CARE, CARE, MUGIO, MUGIO, MUGIO, WATA, WATA, WATA, ROSI, ROSI, ROSI, SIND, SIND, MMK, MMK, WATA, WATA. Contains station listings and technical parameters.

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Table with columns: Code, Station Name, Az, El, SNR, P, AML, Sg, Sn, Time, Res. Includes stations like WTTA Wattenberg, WTTA Wattenberg, WTTA Wattenberg, etc.

2019 JUN

Table with columns: Code, Station Name, Az, El, SNR, P, AML, Sg, Sn, Time, Res. Includes stations like PRU Pruhonice, HYF Humbigny, HYF Humbigny, etc.

5d 17h

Table with columns: Code, Station Name, Az, El, SNR, P, AML, Sg, Sn, Time, Res. Includes stations like CONA Conrad Observa, CONA, RONA, RONA, etc.

IPCC 05 17:50:27.9:0.2,51:47N;16:41E, h1km, ML2.3/6, Error ellipse: s-maj=2.5km s-min=1.4km az=78.0

IDC 05 17:52:10.3:5.3,37:94N;72:36E, h122km;42km, mb3.6/7, mbtmp4.1/11, Error ellipse: s-maj=48.4km s-min=38.6km az=135.0

NNC 05 17:52:11.7:3.3,38:32N;72:03E, h0km, mb4.2, mpv3.9, Error ellipse: s-maj=25.8km s-min=17.7km az=166.0

ISC 05 17:52:10.0:1.3,38:00N;0:1, 72:14E;0.09, h113km, n30, i169/35, mb4.0/6, 8C-3D, Tajikistan

Table with columns: Code, Station Name, Az, El, SNR, P, AML, Sg, Sn, Time, Res. Includes stations like AML Almayashu, UCH Uchoi, EKS2 Erkin-Say, etc.

5d 18h

2019 JUN

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like ESAB Su ao, ESB Shuangxi, TIPO EOS2, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like CHKT Douliu, WDLH Douliu, EHD Haiduan, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like ORIF Oris-en-Rattie, ORIF Oris-en-Rattie, ORIF Oris-en-Rattie, etc.

ROM 05 18:22:19.9-0.2,44.99N,0.01x6.65E:0.01,h9km, ML1.5/14, Error ellipse: s-maj=1.4km s-min=1.0km az=24.0

GEN 05 18:22:20.2,45.03N:6.74E,h5km,ML1.3, LDG 05 18:22:20.6,0.1,45.01N:6.65E,h5km,MD2.3/2,MI2.1/10, Error ellipse: s-maj=1.0km s-min=0.8km az=60.0

STR 05 18:22:20.8,0.2,45.1N:6.74E,h5km,ML1.8/10,1D, Error ellipse: s-maj=0.0km s-min=0.0km az=41.4,preliminary, France

WEL 05 18:49:21.8,38.04S:176.76E,h9km,ML3.4,MW3.5, Moment Tensor Solution. s4 Moment tensor: Scale 10^14 Nm; Mr=0.14; Mw=0.76; Mw0.89; Mw=0.49; Mw=1.90; Mw=2.07; Fault plane solution: M2.14000x10^14 NP1: phi258.00000; s87.00000; A.14.00000; NP2: phi168.00000; s76.00000; A.177.00000; Principal axes: T=2.2300; P12.0000; Azm124.0000; N=2.0370; P1276.0000; Azm269.0000; P=0.0010; P168.0000; Azm32.0000; Stations used: TOZ BKZ MXZ HIZ STRIKE-SLIP FAULTING

WEL 05 18:49:21.0,0.3,38.5S:2.177E,h5km,ML3.5/31, ML3.6/31,ML3.5/31 Error ellipse: s-maj=2.9km s-min=2.4km az=172.3,confirmed,North Island

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like KAFS Kagerau Fire S, EDRZ Kedercum, MARZ Manawahe, etc.



Table with columns: PRGZ, Paritu Road, 1.25 305 P, Pn, 18 49 46.3 +1.1, etc. Lists various locations and their coordinates.

SNET 05 19:19:45.1±1.0, 13.38N±.90;20W, h32km±4km, ML3.0, GCG 05 19:19:45.1±1.0, 13.54N±.90;28W, h36km±351km, MD3.7, ML3.5

ISC 05 19:19:46.2±2.3, 13.4N±0.1;90;14W±0.05, h32km±13km, n15, ±080/25, Near coast of Guatemala

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time Res, ISC. Lists station codes and names like NUBE Las Nubes, CEVE Cerro Verde, etc.

NEIC 05 19:27:20.0±1.8, 23.82N±0.04;121.60E±0.02, h19km±5km, mb4.5/60, Error ellipse: s-maj=6.1km s-min=2.8km az=168.0

BUI 05 19:27:19.2±2.3;69N;121.64E, h27km, mb4.5/6m, mb4.0/33, ML4.3/9; Ms3.9/22; Ms7.3/8/25

JMA 05 19:27:19.9±1.1; 23.5N±0.4; 122°E', h27km±1km, MV4.0/18, TAIWAN REGION

TAP 05 19:27:20.6±2.3;83N;121.58E, h22km, ML4.7, B ASIES 05 19:27:20.6±2.3;83N;121.58E, h22km, ML4.7, Mw4.2

Moment Tensor Solution. Moment tensor: Scale 10^22Nm; Mr:1.27; Mw:-0.93; Ms:-0.33; Mo:0.57; Mv:-0.60; Mv:1.73;

Fault plane solution: Mo:2.22843x10^22 NP1: 0±255.91000°, δ:3.70000°, λ:72.88000°. Principal axes: T

P1g57.89200°, Azm275.18000°, N P1g16.41500°, Azm33.18100°, P P1g26.75500°, Azm131.72300°

IDC 05 19:27:23.0±2.5, 23.68N±1.21;74E, h49km±25km, mb3.6/20, m1mp3.9/23, ML3.4/3, Ms3.4/21, Error ellipse: s-maj=17.9km s-min=13.4km az=65.0

ISC 05 19:27:20.7±0.6, 23.83N±0.01;121.60E±0.02, h25km±3km, n478, ±103/560, mb4.4/54, MS3.4/20, 30C-36D, Taiwan

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time Res, ISC. Lists station codes and names like TEYL Yanliu Villag, SHUL Shoufeng, etc.

Table with columns: VVDT, WHF Hehuan Shan, 0.44 316/1P, S, 19 27 35.2 -0.6, etc. Lists station codes and names like WHF Hehuan Shan, WUSB Renai, etc.

Table with columns: SGST, NCUH Zhongli, 1.20 342 eS, S, 19 27 58.7 +1.0, etc. Lists station codes and names like SGST Zhongli, NCUH Zhongli, etc.

5d 19h

Table with 4 columns: Station Name, Coordinates, Elevation, and Data. Includes stations like KSRs, KX19, XAN, PZH, etc.

2019 JUN

Table with 4 columns: Station Name, Coordinates, Elevation, and Data. Includes stations like O14K, C18K, I17K, A19K, etc.

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Table with 4 columns: Station Name, Coordinates, Elevation, and Data. Includes stations like G23K, STLK, C24K, SKT, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like EPYK Eagle Plains, AKASG Malin Array Be, etc.

GCG 05 19:36:37.4.1.7, 1534N:90.54W, h3km, 9km, MD3.7, ML2.0, Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AVCB Coban, SOKI Kika Raxquin, etc.

NIED 05 20:15:09.7.0.36, 109N:139.93E, h43km, MW3.7, Moment Tensor Solution

s=3.31, Mw=2.48; Mw=0.84; Mw=2.07; Mw=1.21; Mw=0.82; Fault plane solution: Ms=3.91000x10^14 Np1; etc.

JMA 05 20:15:09.7.0.1.30, 11N:0.2, 139.9E:0.3, h43km, MD3.8/37, MW3.8/37, SW IBARAKI PREF

JMA Feit III J1 at SW IBARAKI PREF. IDC 05 20:15:10.6.2.4.36, 08N:139.75E, h60km, 18km, mb3.3/12, mbtmp3.5/15, MS2.4/1, Error ellipse: s-maj=22.3km

ISC 05 20:15:09.3.0.9, 36.07N:0.06E, 139.92E:0.06, h51km, 7km, n35, c=0.88/28, mb3.6/12, 6D, Eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JYT Yasato, TOKY Tokyo, etc.

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MJAR, ASAJ, ASAH, etc.

IDC 05 20:21:18.0.1.0.2, 49N:84.111W, h0km, mb4.0/10, mbtmp4.0/12, ML3.2, MS3.4/11, Error ellipse: s-maj=44.4km, s-min=18.1km, az=61.1

NEIC 05 20:21:19.2.1.7, 2.14N:0.10, 84.3W:0.1, h10km, 1km, mb4.4/4.0, Error ellipse: s-maj=25.5km, s-min=12.5km, az=200.0

ISC 05 20:21:22.6.0.7, 2.34N:0.09, 84.1W:0.1, h35km, n70, c=0.19/57, mb4.4/31, MS3.4/9, Off coast of central America

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like TUMAC, UTAUV, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SADO, ECSD, etc.

IDC 05 20:23:17.5.0.9, 37.99N:14.55E, h0km, mb3.5/6, mbtmp3.4/11, ML2.9/2, Error ellipse: s-maj=25.3km, s-min=10.2km, az=105.0

ROM 05 20:23:18.1.0.1, 37.851N:0.005, 14.555E:0.006, h10km, ML3.4/136, MW3.6, Error ellipse: s-maj=0.6km, s-min=0.1km, az=333.0, Moment Tensor Solution

Moment tensor: Scale 10^14Nm; Mw=2.78; Mw=2.75; Mw=0.03; Mw=0.85; Mw=0.18; Fault plane solution: Ms=3.05652x10^14 Np1; etc.

ISC 05 20:23:18.5.0.8, 37.86N:0.02, 14.58E:0.02, h15km, 5km, n90, c=1.04/105, mb3.5/6, 27C-4D, Sicily

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MNO, MNO, etc.





5d 20h

Table with columns: BKD, Station Name, Frequency, Power, Direction, Azimuth, Elevation, SNR, and other technical details. Includes stations like Balikpapan, MSAI, AAI, SPSI, BNSI, BBSI, KAPI, etc.

2019 JUN

Table with columns: Station Name, Frequency, Power, Direction, Azimuth, Elevation, SNR, and other technical details. Includes stations like KNRA, CGJI, MDSI, LWLI, KULLM, etc.

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Table with columns: Station Name, Frequency, Power, Direction, Azimuth, Elevation, SNR, and other technical details. Includes stations like RABL, TJN, TAJ, TUN, TAO, etc.



Table with columns: Station, Name, Frequency, Mode, Power, SNR, Azimuth, Elevation, etc. Includes stations like CTAO Charters Tower, BJL Beijing, JMM Marumori, etc.

Table with columns: Station, Name, Frequency, Mode, Power, SNR, Azimuth, Elevation, etc. Includes stations like NWAO Narrogin (SRO), GOMU Getuliu, JKA Kamikawa-asahi, etc.

Table with columns: Station, Name, Frequency, Mode, Power, SNR, Azimuth, Elevation, etc. Includes stations like HYB Mount Arapiles, MGBR Mount Gambier, MGCD Mangrove Creek, etc.

5d 20h

Table with columns: Station Name, Frequency, Class, Mode, and Signal. Includes stations like UZB Uzynbulak, PRZ Przewalski, MAKZ Makanchi, PET Petropavlovsk, MDOK Medeo, TSS Tian-Shan, TDK Taldyqorghana, YAK Yakutsk, AAK Ala-Archa, MSZ Milford Sound, etc.

2019 JUN

Table with columns: Station Name, Frequency, Class, Mode, and Signal. Includes stations like KBL Kabul, BTLS Baikal, KURBB Kurbatov Arra, KURBK Kurbek, KURBB Kurbatov, etc.

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Table with columns: Station Name, Frequency, Class, Mode, and Signal. Includes stations like KIW Kapiti Island, ADK Adak, KHZ Kahutara, GZV Greta Valley S, URZ Urewera, etc.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like ARTI, SP1A, P08K, TRNA, SHMA, SMRA, SAKB, UNV, GAMB, CTZ, AKUT, M11K, TNA, KBD, S12K, F14K, M13K, MAK, J14K, L14K, SDPT, F15K, N14K, G15K, M14K, O14K, K19V, BELG, CNBA, CHNA, C16K, L15K, K15K, S14K, M15K, RAYN, R16K, RD0G, C17K, I17K, GNI, GNI, GNI, E17K, L16K, L16K, F17K, F17K, G17K, M16K, M16K, N16K.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like GUDG, H17K, P16K, O16K, O16K, J17K, TRLG, B18K, E18K, E18K, C18K, C18K, L17K, K17K, K17K, F18K, O17K, NCK, NCK, M17K, A19K, N17K, AIN, AIN, MLH, G18K, H18K, HATHI, BYL, P17K, C19K, C19K, CHIR, CHIR, GOF, GOF, Q17K, L18K, L18K, KBZ, KBZ, J18K, F19K, KIV, KIV, KIV, KIV, KIV, KIV, KIV, KIV, GCSA, SHA1, D19K, G19K, G19K, M18K, P18K, E19K, E19K, O18K, O18K, Q18K, H19K, H19K, ABPO, ABPO, J19K, J19K, R18K, SII, B20K, B20K, D20K, L19K, L19K, N19K, N19K, E20K, O19K, F20K, F20K, VRH, VRH, VRH.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like VRH, ATD, ATD, H20K, A21K, A21K, Q19K, Q19K, I20K, I20K, K20K, K20K, OHAK, OHAK, OHAK, L20K, L20K, J20K, J20K, C21K, C21K, VOI, VOI, VOI, LABN, LABN, LABN, M20K, M20K, IMAR, B21K, B21K, A22K, A22K, KDAK, KDAK, KDAK, KDAK, RED, RED, E21K, E21K, O20K, O20K, G21K, G21K, ERBR, ERBR, ERBR, ERBR, Q20K, Q20K, SYI, SYI, F21K, F21K, H21K, H21K, FOMA, FOMA, N20K, N20K, SPCR, SPCR, CHUM, CHUM, PPLA, PPLA, PPLA, VSLR, VSLR, VSLR, B22K, B22K, CAST, CAST, CAST, HOM, HOM, D22K, D22K, I21K, I21K, I21K, SOC, SOC, SOC, SOC, SOC, SOC, F22K, F22K, SKT, SKT, SKT, CNPM, CNPM, CAPN, CAPN, E22K, E22K, KLMR, KLMR, KLMR, VORD, VORD, VORD, VORD, G22K, G22K, H22K, H22K, VORR, VORR, VORR, VORR, VORR, BRLL, BRLL, VSR.

2019 JUN

5d 20h

Table with columns for station ID, name, elevation, coordinates, and various data points. Includes stations like VSR, BPAW, BRSE, KTH, SUA, SVA, LPSR, MLY, SLKM, CRF, TRF, D23K, D23K, M22K, C23K, COLD, G23K, RC01, RC01, O22K, H23K, H23K, E23K, SEW, SEW, TOLK, TOLK, I23K, PMR, PMR, MOS, MOS, MOS, MOS, MOS, MOS, NEA2, NEA2, MCK, D24K, C24K, WAT1, E24K, E24K, KNK, KNK, SML, SML, PWL, PWL, ANN, ANN, ANN, ANN, WRH, F24K, F24K, H24K, H24K, COLA, COLA, COLA, CCB, OBN, OBN, OBN, OBN, OBN, WAT6, M23K, G24K, G24K, MESA.



5d 20h

Table with columns for station name, frequency, power, and other technical details. Includes stations like KONO, KONGSBERG, DRME, KEK, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like GERES, BSEG, TANN, FLTG, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like PFO, PDAR, PDAR, PDAR, etc.







Table with columns: PASC, Station Name, Frequency, and other technical details. Includes entries for Pasadena Art C, BACC Bachelor Min., WTT2 Wally, South G, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for ATAH Athaualpa, CMIG Matias Romero, LPAZ La Paz, etc.

Table with columns: ULM, FRB, YKA, ILAR, FINES, KURBB, and other station entries with their respective frequencies and coordinates.

Table for GCG 06:00:44:14.8:0.3, 13:14N:89:57W, h58km, g6km, MD3.5, El Salvador. Lists station names like JAYA, JUYA, NURE, MTO3.

Table for TEH 06:01:17:06.7, 27:73N:53:13E, h6km, 261km. Lists station names like ULM, LMDI, QIDI, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for ULM, LMDI, QIDI, JHRM, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for ALNE, IBAF, ICHK, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for NOA, FINES, ARCES, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for WRA, ASAR, MKAR, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for ALJI, ALJI, LALI, LOMA, etc.

Table for IDC 06:01:43:58:01.1, 4:29N:126:12E, h114km, 100km. Lists station names like WRA, ASAR, etc.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for FITZ, WRA, ASAR, etc.

Table for VYDA Yanda with station name and technical details.

Table with columns: Code, Station Name, Frequency, and other technical details. Includes entries for THE, OEST, NHR, etc.

6d 2h

Table with columns: TYRN, AMPL, KNT, TSKL, LK2D, EVR, AGG, AVGI, PDO, ANX. Rows contain station names and numerical data.

TIR 06 01:53:13.8, 40.42N, 20.77E, h15km, 1km, M2, 6/6
ATH 06 01:53:14.4, 40.39N, 20.78E, h12km, 1km, ML2, 2/7
Manual Solution by L.Dede First location: 2019/06/06
01:54:42, This location: 2019/06/06 08:45:20 ML

Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 1 km

BEO 06 01:53:14.8, 0.3, 40.31N, 20.81E, h0km, ML2, 1/9
ISC 06 01:53:13.6, 1.1, 40.38N, 0.02, 20.74E, 0.03, h2km, 11km, n25, 1928/45, Greece-Albania border region

Main table for Greece-Albania border region with columns: Code, Station Name, Delta A, Delta Z, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include Nestorio, Korca, Leskovik, etc.

GUC 06 01:56:18.2, 0.8, 22.88S, 68.62W, h107km, 3km, ML3.4
SJA 06 01:56:19.1, 1.8, 22.89S, 68.62W, h82km, ML3.3, MW3.5
ISC 06 01:56:19.2, 1.3, 22.88S, 0.03, 68.64W, 0.04, h108km, 9km, n34, 1916/54, 8C-4D, Northern Chile

Main table for Northern Chile with columns: Code, Station Name, Delta A, Delta Z, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include San Pedro de A, IPOC Station P, etc.

2019 JUN

Table for SALTA with columns: TA01, TA01, TA01, TA01, TA01, TA01. Rows contain station names and numerical data.

Table for PB08 with columns: PB08, PB08, PB08, PB08, PB08, PB08. Rows contain station names and numerical data.

Table for YJA with columns: YJA, YJA, YJA, YJA, YJA, YJA. Rows contain station names and numerical data.

Table for GO01 with columns: GO01, GO01, GO01, GO01, GO01, GO01. Rows contain station names and numerical data.

Table for AC01 with columns: AC01, AC01, AC01, AC01, AC01, AC01. Rows contain station names and numerical data.

Table for AC02 with columns: AC02, AC02, AC02, AC02, AC02, AC02. Rows contain station names and numerical data.

Table for NOU with columns: Code, Station Name, Delta A, Delta Z, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include VLAKA, YATNC, etc.

Table for NNC with columns: Code, Station Name, Delta A, Delta Z, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include MRKS, AAK, etc.

Table for BRLS with columns: BRLS, BRLS, BRLS, BRLS, BRLS, BRLS. Rows contain station names and numerical data.

Table for KST with columns: KST, KST, KST, KST, KST, KST. Rows contain station names and numerical data.

Table for BTLS with columns: BTLS, BTLS, BTLS, BTLS, BTLS, BTLS. Rows contain station names and numerical data.

Table for AB31 with columns: AB31, AB31, AB31, AB31, AB31, AB31. Rows contain station names and numerical data.

Table for GCG with columns: GCG, GCG, GCG, GCG, GCG, GCG. Rows contain station names and numerical data.

Table for MEX with columns: MEX, MEX, MEX, MEX, MEX, MEX. Rows contain station names and numerical data.

Table for PCIG with columns: PCIG, PCIG, PCIG, PCIG, PCIG, PCIG. Rows contain station names and numerical data.

Table for PATR with columns: PATR, PATR, PATR, PATR, PATR, PATR. Rows contain station names and numerical data.

Table for NUBE with columns: NUBE, NUBE, NUBE, NUBE, NUBE, NUBE. Rows contain station names and numerical data.

Table for LOAL with columns: LOAL, LOAL, LOAL, LOAL, LOAL, LOAL. Rows contain station names and numerical data.

Table for SLOZ with columns: SLOZ, SLOZ, SLOZ, SLOZ, SLOZ, SLOZ. Rows contain station names and numerical data.

Table for CEVE with columns: CEVE, CEVE, CEVE, CEVE, CEVE, CEVE. Rows contain station names and numerical data.

Table for SRIJ with columns: SRIJ, SRIJ, SRIJ, SRIJ, SRIJ, SRIJ. Rows contain station names and numerical data.

Table for SLOZ with columns: SLOZ, SLOZ, SLOZ, SLOZ, SLOZ, SLOZ. Rows contain station names and numerical data.

Table for COEG with columns: COEG, COEG, COEG, COEG, COEG, COEG. Rows contain station names and numerical data.

Table for GIL with columns: GIL, GIL, GIL, GIL, GIL, GIL. Rows contain station names and numerical data.

Table for HLW with columns: HLW, HLW, HLW, HLW, HLW, HLW. Rows contain station names and numerical data.

Table for IDC with columns: IDC, IDC, IDC, IDC, IDC, IDC. Rows contain station names and numerical data.

Table for ISK with columns: ISK, ISK, ISK, ISK, ISK, ISK. Rows contain station names and numerical data.

Table for AFAD with columns: AFAD, AFAD, AFAD, AFAD, AFAD, AFAD. Rows contain station names and numerical data.

Table for THE with columns: THE, THE, THE, THE, THE, THE. Rows contain station names and numerical data.

Table for NISR with columns: NISR, NISR, NISR, NISR, NISR, NISR. Rows contain station names and numerical data.

Table for ARG with columns: ARG, ARG, ARG, ARG, ARG, ARG. Rows contain station names and numerical data.

Table for YAZI with columns: YAZI, YAZI, YAZI, YAZI, YAZI, YAZI. Rows contain station names and numerical data.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like APE, IDI, AYDN, etc.

Table with columns: Call Sign, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like KRSC, SKR, PAU, ASAK, etc.

Table with columns: Call Sign, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like NEST, NESTOR, NESTORIO, etc.

6Hs 3h

Table with columns: Station Name, Frequency, Power, Band, and other technical details. Includes stations like JHHS, JNTW, JMM, JYVZ, etc.

2019 JUN

Table with columns: Station Name, Frequency, Power, Band, and other technical details. Includes stations like SONM, H1N2, H1N1, etc.

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Table with columns: Station Name, Frequency, Power, Band, and other technical details. Includes stations like OBV, FINES, KIV, etc.

ISK 06 03:24:11.9, 39°26'N, 25°51'E, h9km, ML3, 6/29
AFAD 06 03:24:12.4, 39°24'N, 25°53'E, h7km, 2km, MW3, 5
ATH 06 03:24:13.1, 39°25'N, 25°56'E, h17km, 1km, ML3, 1/32,
Manual Solution by N.Liadopoulos First Location:
2019/06/06 03:25:17, This location: 2019/06/06 08:37:30
ML Amplitudes are expressed in micrometers, All
distances are expressed in degrees Latitude uncertainty: 1
km; Longitude uncertainty: 1 km
BEO 06 03:24:13.2, 0.8, 39°12'N, 25°19'E, h0km, ML3, 0/7
THE 06 03:24:13.4, 39°N, 2°E, h15km, 3km, M3, 1/20,
ML3, 1/20

ISC 06 03:24:12.9, 0.9, 39°24'N, 02°25'33"E, 0'02, h16km, 6km,
n149, c083/193, 7C-11D, Aegean Sea

Table with columns: Code, Station Name, Frequency, Power, Band, and other technical details. Includes stations like SIGR, BOZC, EAGZ, etc.





6d 4h

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various stations like TPUB, Cishan, SCST, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various stations like MSVF, DZM, TOZ, etc.

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Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various stations like TIR, NEST, KBN, etc.

ISC 06 03:59:49.7±0.8, 21.23S; 174.49W, h0km, mb4.0/9, mbmp3.6/4, ML4.7/1, MS3.1/1, Error ellipse: s-maj=89.9km s-min=33.3km az=161.0

ATH 06 04:18:54.8, 40.37N; 20.78E, h7km, 1km, ML2.6/9, Manual Solution by N.Liadopoulos First location: 2019/06/06 04:19:58, This location: 2019/06/09 09:23:35 ML

ISC 06 04:25:01.2±1.6, 21.1S; 0.4-173.9W; 0.2, h26km, n6, #092/6, mb3.6/3, Tonga Islands

ASAR Alice Springs 41.75 269 P P 04 33 13.1 +0.1
WRA Warramunga Arr 42.88 275 P P 04 33 22.6 +0.4
GSPA South Pole Qui 58.18 180 P P 04 35 17.0 +0.3
FINES FINES Array B 146.11 338 PKPbc PKPdf 04 45 00.8 +0.8
HFS Hagsfors 150.46 347 PKPbc PKPbc 04 45 11.7 -0.9
BRTR Keskin Array B 152.13 296 PKPbc PKPbc 04 45 16.0 -1.3

DJA 06 04:53:50.0-0.2,1'S;2°12'0E, h10km,M3.7/12,mb4.2/1, MLV3.5/12,Sulawesi

Code Station Name Δ° AZZ Phase ID Time Res
PCI Palu 0.61 332 P P 04 50 09.1 -1.1
APSI Ampana 1.61 371 P P 04 54 18.4 -0.1
MTSI Tana Toraja 1.61 191 P P 04 54 16.5 -2.1

SDD 06 04:59:46.6-1.8, 19.11N;-69.08W, h22km, 11km, MD3.4, ML2.5, MW3.0

OSPL 06 04:59:48.4-3.7, 19.08N;-69.12W, h0km, 32km, ML2.4
RSRP 06 04:59:51.5, 19.46N;-68.71W, h129km, 14km, MD3.0/10
ISC 06 04:59:45.8-0.9, 19.08N;0.04-69.07W, 0.02, h14km, 8km, n36, e1917/45, 15C-SD, Dominican Republic region

Code Station Name Δ° AZZ Phase ID Time Res
SMDR Samana, DR 0.24 333f ePg P 04 59 51.2 +0.3
SMDR IAML 04 59 55.8 +1.3
SMDR comp=N,330nm,0.6s IAML 04 59 56.2

GCG 06 05:33:19.0-0.6, 12.80N;-90.83W, h14km, MD4.3

CATAC 06 05:33:22.5-0.6, 13°N;3°19'W, h11km, 4km, M3.3/16, MLV3.3/16, Error ellipse: s-maj=6.7km s-min=-5.8km az=5.1, confirmed

SNET 06 05:33:23.9-0.9, 13.04N;-90.61W, h13km, 7km, ML3.0
ISC 06 05:33:26.2-8, 13.00N;0.1-90.77W, 0.1, h24km, n50, e062/54, Off coast of central America

Code Station Name Δ° AZZ Phase ID Time Res
FAME Alcaldia de Sa 1.07 38 P P 05 33 42.3 +0.9
FAME Alcaldia de Sa 1.07 38 S P 05 33 57.6 +0.3
NUBE Las Nubes 1.26 44 S P 05 33 45.2 -0.8

RNSC 06 05:07:29.8-0.7, 3°S;3°8'0W, h27km-6km, M3.6, mb3.4, ML3.1

IGQ 06 05:07:31.5-0.2, 3°S;1°8'0W, h22km, 1km, MLV3.7/36
ISC 06 05:07:32.3-1.3, 2.56S;0.03;-79.67W, 0.03, h49km, 9km, n99, e137/106, 12C-13N, Near coast of Ecuador

Code Station Name Δ° AZZ Phase ID Time Res
MILO Miagro-Astudi 0.30 21 U P 05 07 41.5 +0.1
MILO S P 05 07 50.8 +2.9
COHC Cochancay 0.42 77 U P 05 07 41.2 -1.4

AGRD Ecuador-Guaran 1.18 34 P Pn 05 07 50.6 -2.3
BOSC San Juan Bosco 1.31 17 U P Pn 05 07 54.6 +0.2
CHSH Refugio Sur-Vo 1.33 37 P Pn 05 07 53.3 -1.7

GCG 06 05:33:19.0-0.6, 12.80N;-90.83W, h14km, MD4.3

CATAC 06 05:33:22.5-0.6, 13°N;3°19'W, h11km, 4km, M3.3/16, MLV3.3/16, Error ellipse: s-maj=6.7km s-min=-5.8km az=5.1, confirmed

SNET 06 05:33:23.9-0.9, 13.04N;-90.61W, h13km, 7km, ML3.0
ISC 06 05:33:26.2-8, 13.00N;0.1-90.77W, 0.1, h24km, n50, e062/54, Off coast of central America

Code Station Name Δ° AZZ Phase ID Time Res
FAME Alcaldia de Sa 1.07 38 P Pn 05 33 42.3 +0.9
FAME Alcaldia de Sa 1.07 38 S Pn 05 33 57.6 +0.3
NUBE Las Nubes 1.26 44 S Pn 05 33 45.2 -0.8

RNSC 06 05:07:29.8-0.7, 3°S;3°8'0W, h27km-6km, M3.6, mb3.4, ML3.1

IGQ 06 05:07:31.5-0.2, 3°S;1°8'0W, h22km, 1km, MLV3.7/36
ISC 06 05:07:32.3-1.3, 2.56S;0.03;-79.67W, 0.03, h49km, 9km, n99, e137/106, 12C-13N, Near coast of Ecuador

Code Station Name Δ° AZZ Phase ID Time Res
MILO Miagro-Astudi 0.30 21 U P 05 07 41.5 +0.1
MILO S P 05 07 50.8 +2.9
COHC Cochancay 0.42 77 U P 05 07 41.2 -1.4

IGQ 06 05:46:41.3-0.2, 0°N;1°7'8W, h7km, 1km, MLV3.5/31
RNSC 06 05:46:43.4-0.2, 0°N;2°7'8W, h0km, M3.2, mb3.9, ML2.9
ISC 06 05:46:42.0-0.8, 0.42N;0.02;-78.05W, 0.02, h12km, 5km, n91, e1916/117, 22C-9D, Colombia-Ecuador border region

Code Station Name Δ° AZZ Phase ID Time Res
YAHU Yahuarcocha 0.05 203 U P 05 46 48.3 -1.1
YAHU S P 05 46 48.6 -0.8
AATI Ecuador-Atunta 1.18 243 S S 05 46 46.0 -0.4

NNC 06 06:29:49.9-2.9, 54.39N;-87.73E, h0km, mb3.1, mpv2.8, Error ellipse: s-maj=24.2km s-min=-17.9km az=177.0, Suspected Mining explosion

ASRS 06 06:29:53.0-0.8, 54.26N;-87.13E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 06 06:29:54.7-3.1, 54.26N;-87.33E, h0km, mbmp3.0/2, ML2.5/2, Error ellipse: s-maj=25.8km s-min=-17.1km az=60.0

ISC 06 06:29:51.6-3.8, 54.44N;-87.5E, 0.2, h0km, n8, e214/8, 4C-2D, Southwestern Siberia

Code Station Name Δ° AZZ Phase ID Time Res
I46RU ZALESOVO INFRA 1.62 255 U P 06 30 20.8 -1.5
ZAAO Zalesovo Array 1.62 255 U P 06 30 45.5 +1.9
ZAAO 5.4nm, 1.0s U S 06 30 21.3 -1.3



Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, AS31 Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, GSPA South Pole Qui, SNAAA Sanae, etc.

ASRS 06 08:00:47.0, 0.9, 54.12N:86.40E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ASRS 06 08:00:49.6, 2.8, 54.13N:86.45E, h0km, mbtmp2.8/2, ML2.7/2, Error ellipse: s-maj=22.9km s-min=13.4km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV Zalevovo Beam, etc.

ASRS 06 08:01:27.0, 1.1, 55.07N:83.79E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

ASRS 06 08:04:26.0, 0.8, 17.75S:172.13W, h0km, mb4.1/8, mbtmp4.1/9, ML4.7/11, MS3.7/17, Error ellipse: s-maj=35.7km s-min=19.6km az=147.0

NEIC 06 08:04:26.6, 1.0, 17.69S:02.171, 84W:0.08, h10km, 1km, mb4.7/24, Error ellipse: s-maj=13.2km s-min=3.0km az=82.0

ISC 06 08:04:26.6-0.5, 17.76S:0.08, 171.89W:0.09, h10km, n67, c121/47, mb4.7/20, MS3.7/15, ID, Tonga Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like NIUE Niue, AFI Afiatapu, FUTU Fugatoga, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, AS31 Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, GSPA South Pole Qui, SNAAA Sanae, etc.

ASRS 06 08:05:28.0, 1.5, 53.74N:91.07E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ASRS 06 08:05:34.0, 3.9, 53.59N:90.88E, h0km, mbtmp2.8/3, ML2.1/3, Error ellipse: s-maj=34.6km s-min=26.7km az=28.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV Zalevovo Beam, etc.

ASRS 06 08:05:28.0, 1.5, 53.74N:91.07E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ASRS 06 08:05:34.0, 3.9, 53.59N:90.88E, h0km, mbtmp2.8/3, ML2.1/3, Error ellipse: s-maj=34.6km s-min=26.7km az=28.0, Southwestern Siberia

ISC 06 08:05:34.2, 1.9, 65S:0.3, 175.8W:0.2, h250km, n10, c126/10, mb3.5/3, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like NIUE Niue, AFI Afiatapu, FUTU Fugatoga, etc.

NNC 06 08:09:36.2, 4.0, 54.44N:86.58E, h0km, mb2.8, mpv2.6, Error ellipse: s-maj=108.7km s-min=22.1km az=161.0, Suspected Mining explosion.

ASRS 06 08:09:37.0, 0.7, 54.03N:86.54E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 06 08:09:40.2, 2.5, 54.05N:86.47E, h0km, mbtmp3.2/2, ML2.9/2, Error ellipse: s-maj=20.7km s-min=12.6km az=62.0

ISC 06 08:09:34.1, 5.9, 55.01N:0.4, 83.9E:0.1, h0km, n7, c06/66/7, ID, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like I46RU ZALESOVO INFRA, ZAAO Zalevovo Array, ZAAO Zalevovo Array, etc.

NEIC 06 08:24:02.6, 1.6, 4.77N:0.07, 126.1E:0.1, h108km, 9km, mb4.4/20, Error ellipse: s-maj=17.5km s-min=9.6km az=80.0

DJA 06 08:24:02.2, 0.5, 5.5N:4.12E, h100km, 5km, M4.6/13, mb2.8/2.6, mb4.5/12, ML4.7/13, MW(MJD)4.6/6

IDC 06 08:24:03.1, 2.4, 4.80N:125.66E, h128km, 21km, mb3.8/19, mbtmp4.2/20, Error ellipse: s-maj=28.2km s-min=11.4km az=79.0

ISC 06 08:24:00.5-0.5, 4.73N:0.04, 126.04E:0.08, h100km, n66, c150/69, mb4.2/28, Talau Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like SGGSI Sangihe, DAV Davao City (W), DAV Davao City (W), etc.

ASRS 06 08:24:03.1, 2.4, 4.80N:125.66E, h128km, 21km, mb3.8/19, mbtmp4.2/20, Error ellipse: s-maj=28.2km s-min=11.4km az=79.0

ISC 06 08:24:00.5-0.5, 4.73N:0.04, 126.04E:0.08, h100km, n66, c150/69, mb4.2/28, Talau Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, etc.







Table of astronomical observations for stations 63d-8h, including station names, coordinates, and observation details.

Table of astronomical observations for stations FRB-NJ2, including station names, coordinates, and observation details.

Table of astronomical observations for stations CMAR-ILAR, including station names, coordinates, and observation details.

IDC 06:08:49:52.84.0, 54.27N:87.45E, h0km, mbtmp2.5/2, ML2.3/2, Error ellipse: s-maj=36.7km s-min=22.0km az=37.0

ASRS 06:08:49:52.0.6, 54.12N:87.21E, h0km, M2.4, The earthquakes of Russia in 2019. Obnsnik, GS RAS, 214 p + CD-ROM, 2021. Southwestern Siberia

IDC 06:08:53:31.3e.1, 4.28:77N:142.88E, h0km, mb3.6/4, mbtmp3.6/5, ML2.9/1, Error ellipse: s-maj=41.1km s-min=21.3km az=87.0

ISC 06:08:53:36.0e.1, 3.28:75N:0.08:142.7E:0.3, h35km, m6, s19267f, mb3.6/4, Bonin Islands region

SNET 06:08:55:27.5e.1, 0.13:24N:89.95W, h32km, 3km, ML3.1, GCG 06:08:55:27.5e.0, 3.13:27N:90.00W, h30km, 3km, MD3.5, CATALOG 06:08:55:29.3e.7, 1.37:14N: x.9 OW, h24km, 3km, M2.6/10, ML2.6/10, Error ellipse: s-maj=9.7km s-min=7.0km

az=56.0 confirmed ISC 06:08:55:30.0e.2, 3.12:29N:0.09:89:80W:0.08, h25km, 13km, n32, 1:45/39, El Salvador

Table with 5 columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for JAYA and JAVY.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JAYA, CEVE, SBL, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WEL, WGMZ, HAZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like YOTC, MALC, PLMC, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like GYA, HHC, KNRA, WBO, WR8, WRA, FITZ, PZH, AS31, ASAR, SONM, CMAR, ADK, ATKA, MBWA, PSA00, NIKH, STKA, SP1A, P08K, UNV, BILL, BBOO, AKUT, S12K, M11K, WMQ, SDPT, MORW, CHNA, M13K, K13K, O14K, N14K, L14K, M14K, TNA, J14K, O15K, ANM, F14K, M15K, N15K, K15K, G15K, P16K, F15K, O16K, N16K, M17K, L17K, M17K, J17K.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like C16K, S11, K17K, MKAR, R18K, Q18K, H17K, P18K, N18K, N18K, D17K, O18K, F17K, L18K, E17K, OHAK, M18K, C17K, Q19K, H18K, O19K, J18K, N19K, F18K, E18K, KDAK, L19K, GCSA, M19K, Q20K, C18K, J19K, B18K, O20K, G19K, G19K, H19K, L20K, F19K, M20K, K20K, HOM, C19K, C19K, N20K, SPCR, CNPM, J20K, A19K, E19K, E19K, I20K, H20K, D19K, D19K, BRSE, F20K, F20K, PPLA, SKT, SKT, CAST, CAST, CHUM, KURBB, KURBB, SUA, SUA, E20K, D20K, D20K, O22K, SEW.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like SEW, H21K, G21K, M22K, M22K, RC01, RC01, NRIK, B20K, CUT, KTH, I21K, I21K, F21K, F21K, BPWA, BPWA, TRF, TRF, PMR, C21K, E21K, H20K, H22K, MLY, MLY, PWL, KNK, B21K, F22K, SML, SML, G22K, P23K, WAT1, RND, RND, MCK, D22K, D22K, M23K, E22K, E22K, A22K, NEA2, NEA2, I23K, I23K, GLI, WAT6, H23K, H23K, SCM, G23K, B22K, COLD, COLD, DRY, DRY, COLA, D23K, EYAK, E23K, E23K, KLU, KLU, H24K, H24K, POKR, HDA, HDA, TOLK, C23K, IL31, ILAR, ILAR, E24K, E24K, G24K, G24K, F24K, F24K, PAX.



6d 10h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like Heredia, Santo Domingo, PAVB, Garabito, etc.

ASRS 06 09:39:59.0.0.9, 53°64N-88°00E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 06 09:40:01.1-0.3, 53°58N-87°82E, h0km, mbtmp2.8/2, ML2.4/2, Error ellipse: s-maj=27.0km s-min=17.8km az=60.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like ZALESOVO INFRA, ZALV, ZALV, KURBB, etc.

IDC 06 09:40:29.9.4.7, 41°82N-46°73E, h0km, mb3.2/3, mbtmp3.1/4, ML2.7/1, MS3.7/1, Error ellipse: s-maj=105.2km s-min=15.0km az=15.0

MOS 06 09:40:36.7, 42°83N-47°12E, h10km, MPVA4.9

NORS 06 09:40:36.8, 42°80N-47°03E, h1km, MPVA3.0

DRS 06 09:40:36.9, 42°87N-47°15E, h15km, FELT=III MSK at Buynaksk

ISC 06 09:40:37.9-0.4, 42°88N-0°02-47°15E, h6km, 6km, n66, r1935/111, mb3.1/3, 1C-4D, Eastern Caucasus

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like BUYN, BUYN, BUYN, KARAN, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like BTLR, BTLR, BTLR, BTLR, etc.

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φ=201.00000°, δ=25.00000°, λ=85.00000°. NP2:φ=27.00000°, δ=66.00000°, λ=92.00000°

JMA 06 09:44:37.6-0.4, 39°5N-0°8-14°4E, h28km, MV3.6/32, FAR E OFF SANRIKU

ISC 06 09:44:37.5-1.5, 39°37N-0°07-14°340E, h0.9, h1km, n20, r150/25, mb3.8/4, Off east coast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like MIYJ, JTH, JTH, OFUJ, etc.

KOLA 06 09:59:49.0, 64°79N-30°50E, h0km, ML2.5, Error ellipse: s-maj=17.6km s-min=13.3km az=10.0, Kostomuksha, Karelia

HEL 06 09:59:48.9-0.2, 64°81N-30°75E, h0km, ML2.1, Explosion

IDC 06 09:59:50.7-1.9, 64°75N-30°49E, h0km, mbtmp3.0/4, ML2.2/4, Error ellipse: s-maj=24.5km s-min=8.4km

ISC 06 09:59:58.2-1.3, 64°81N-0°06-30°54E, h0.07, h0km, n27, r095/30, Finland-Karelia border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like KU1, PUF, KU6, etc.







Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like TSKL, UPRI, PVO, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like NEIC, HVO, CPH, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like HPAH, WRMH, UWE, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like DMN, GUN, KKN, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like WRA, IDC, ASAR, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like EBNR, EANK, EKMS, etc.

6d 15h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Stroemstad, NORSAR Array S, DEL, TJOU, etc.

IDC 06 14:44:12.3;2.2, 4.96N, 123.05E, h0km, mb3.7/3, mbtm3.7/3, Error ellipse: s-maj=304.7km s-min=25.0km az=63.0, Celebes Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like WRA, ASAR, MKAR.

IDC 06 14:53:30.4; 1.0, 13.16S, 45.39E, h0km, mb3.8/6, mbtm3.8/6, ML4.9/2, MS2.9/2, Error ellipse: s-maj=36.1km s-min=19.9km az=150.0

ISC 06 14:53:31.8; 0.9, 13.15S, 0.07:45.55E:0.10, h10km, n18, c1567/25, mb4.0, Northwest of Madagascar

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like SBV, OPO, OPO, OPO, etc.

NNC 06 15:04:56.8; 3.7, 38.49N, 70.41E, h0km, mb4.0, mpv3.5, Error ellipse: s-maj=28.2km s-min=22.7km az=22.0

SOME 06 15:04:56.2, 38.33N, 72.20E, h20km

ISC 06 15:05:07.5; 3.2, 39.1N, 0.1:70.5E:0.1, h17km, n11, c2610/17, GC, Tajikistan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like AML, BRL, BRL, BRL, etc.

MEX 06 15:25:38.4; 1.2, 15.98N, 98.38W, h12km, 30km, MD4.8

NEIC 06 15:25:39.7; 1.6, 16.33N, 0.0:98.16W:0.03, h10km, 1km, mb4.7/310, Md4.8/167(MEX), Error ellipse: s-maj=10.3km s-min=3.2km az=210.0

IDC 06 15:25:42.1; 4.4, 16.16N, 98.14W, h35km, 32km, mb4.0/12, mbtm3.4/25, ML3.9/2, MS3.8/13, Error ellipse: s-maj=31.2km s-min=17.4km az=40.0

ISC 06 15:25:36.4; 1.4, 16.00N, 0.0:98.40W:0.02, h6km, 8km, n579, c2611/564, mb4.7/134, MS3.8/11, TC, Off coast of Guerrero

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like PNIG, PNIG, CRIG, CRIG, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like CRIG, YOSONDUA, YOSONDUA, YOSONDUA, etc.

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like APVM, AZVM, AZVM, AZVM, etc.

Table with columns for location, coordinates, and status. Includes entries like Albuquerque, West end E0370, CROK Carrier, FCAR Ozark Folk Cen, U38A Gravelle, RTBA Rita Blanca, Y49A Blount Mountai, T35A Sooner Cattle, KAN13 South Haven SW, KAN17 Caldwell West, LCAR Lake Charles, X48A Hartselle, PLAL Pickwick Lake, X18A Snowflake, T25A Trinidad, X16A Lo Mia Camp, T42A Van Buren, GOGA Godfrey, Y52A Lilburn, X51A Calhoun, WVT Waverly, Y48A Smith Brothers, ESJX Sierra Juarez, SDCO Great Sand Dun, CGM3 Cape Girardeau, WUAZ Wupatki, CBK5 Cedar Bluff, CCM Cathedral Cave, MVCO Mesa Verde, YUH Yula Desert, FVM French Village, CPCT Cooper Cave, KSCO Kaye Sheddock, HODGE Hodges, BG3 Lake Jocease, TKL Tuckaleechee C, TKL Tuckaleechee C, PV01 Paradox Valley, U15A North Rim, USIN University of Jenkinsville, JSC Radium Mtn., PV13 Dawn, P38A Dawn, PV02 Paradox Valley, PAULI Pauline, PFO Pinyon Flats O, PFO Pinyon Flats O, PV15 Paradox Valley, PV03 Paradox Valley, PV18 Skin Mesa, Pa, V53A Saluda, PV11 David Mesa, Pa, PV17 East Wray Mesa, PV16 Nyswonger Mesa, PV07 Paradox Valley, PV20 West Nyswonger, T50A Nancy, PV04 Paradox Valley, PV10 Paradox Valley, PV22 Blue Mesa, Par, PV22 Blue Mesa, Par, PV23 Carpenter Ridg, TZTN Tazewell, KNB Kanab, ISCO Idaho Springs, W43A Wynandor Cave, WCI Shelbyville, OTAV Otavalo, SRU San Rafael Swe, R50A Paris, Q16A Castle Valley, MVU Marysville, P18A Preston Nutter, P48A Milroy, ROSC El Rosal, TPNV Topopah Spring, SFIN Lafayette, PSUT Pine Spring, BLA Blacksburg, FLOC Florencia, L40A Anamosa, BSUT Blindspring Ca, RUSC La Rusia, RUSC La Rusia.

Table with columns for location, coordinates, and status. Includes entries like Williamsport, Marlinton, TCUT Toone Canyon, P52A Corning, Q54A Coss Mills, ACOS Alum Creek Sta, S57A Dark Hollow, BGU Big Grassy Mow, T59A Double 'B' Far, PDAR Pinedale Array, PDAR Pinedale Array, LHV Little Huntout, NVAR Mina Array Bea, NVAR Mina Array Bea, HVU Hansel Valley, TPAA Teton Pass, LOHW Long Hollow, G40A Rib Lake, RLMT Red Lodge, YHL Hebgan Lake, WVOR Wild Horse Val, DLMT Dillon, PLID Pearl Lake, L04D Klamath Falls, EGMT Eagleton, TBO Thunder Bay, BUKO Buck Lake, ULM Lac du Bonnet, ULM Lac du Bonnet, FFC Flin Flon, BBB Bella Bella, LPAZ La Paz, SCHO Schefferville, V35K Ketchikan, TOAD Toad River Com, T35M Bob Quinn, KUQ Kuujuaua, PB10 POC Station P, YKAW Yellowknife Wh, YKA Yellowknife Ar, U33K Whale Pass, TAOE Nuku Hiva Isla, BEAVL Fort Liard, BLKN Baker Lake, DLBC Dease Lake, S34M Telegraph Cree, R33M Jennings River, R33M Jennings River, S32K Killisnoo, Q32M Atlin, TGNT Hyland Airport, P32M Atlin, P33M Teslin, Yukon, P33M Teslin, Yukon, SKAG Skagway, N32M Quiet Lake, PLBC Pleasant Can, WHY Whitehorse, MMPY Sheldon Lake, MMPY Sheldon Lake, P29M Windy Craggy, P30M Million Dolar, O30N Mendenhall, FARO Faro, Yukon, H03N2 Juan Fernandez, H03N1 Juan Fernandez, H03N3 Juan Fernandez, N31M Braeburn, N31M Braeburn, M31M Drury Creek, Y HYT Haines Junctio, HYT Haines Junctio, PNL Peninsula, RKT Rikitea, O29M Mount Kennedy, N30M Aishikik Lake, YUK6 Outpost Mounta, PINM Pinnacle, YUK4 Talbot Arm, O28M Mount Upton, YUK6 Steele Glacier.

Table with columns for location, coordinates, and status. Includes entries like MESA MESA, M29M Somme Creek, M29M Somme Creek, CTG Chitna Glacier, GRNC Granite Creek, YUK3 Moose Creek, L29M L29M, L29M L29M, K29M Barlow Dome, J30M Hart River, CRQE Cirque, BVCY Beaver Creek, H31M Peel River, MCARA McCarthy VSAT, I30M Mount Dempster, I30M Mount Dempster, M27K Edge Creek, AK, DAWY Dawson, BMRM Bremner River, BCAR Beaver Creek A, L27K Beaver Creek, L27K Beaver Creek, M26K Nabesna, AK, M26K Nabesna, AK, EYAK Cordova Ski Ar, G31M Satah River, G31M Satah River, N25K Chitina, Valde, N25K Chitina, Valde, I29M Ogilvie Camp, I29M Ogilvie Camp, F31M Tsihgethich, EPYK Eagle Plains, L26K Log Cabin Wild, P23K Montague Islan, K27K Chicken, KLU Klutina, KLU Klutina, KLU Miner Creek, GLI Glacier Island, H29M Whitestone, H29M Whitestone, HARP HAARP, INK Inuvik, INK Inuvik, F30M Barrier River, M24K Tolson, Glenn, DOT Dot Lake, G29M Pine Creek, PAX Paxson, PAX Paxson, SCRK Sand Creek, PWL Port Wells, SCM Sheep Creek Mo, J26L Joseph Creek, I27K Kandik River, RIDG Independent Ri, RIDG Independent Ri, SEW Seward, KNK Knik Glacier, I26K Coal Creek Min, I26K Coal Creek Min, SML Sawmill, SML Sawmill, H27K Steamboat Moul, K24K Donnelly Dome, BRSE Bradley Lake S, WAT6 Susitna Watana, KDAD Kodiak Island, SLKM Skiklak Lake, GHO Glory Hole Cre, RCO1 Rabbit Creek A, DHY Denali Highway, POIN Pond Inlet, POIN Pond Inlet, J25K Salcha River, CPUP Villa Florida, E29M Blow River, F28M Old Crow, F28M Old Crow, G27K Kodiak Strip, A11 Sitkinak Islan, S36M Sachs Harbour, WAT1 Susitna Watana, HDA Harding Lake.

6d 15h

Table with columns: HD, Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Harding Lake, Susitna One, Porcupine Dome, etc.

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Table with columns: HD, Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Anotleneega Mo, Timber Creek, Anaktuvuk Pass, etc.

MEX 06 15:26:31.0, 0.8, 15.939N-98.38W, h16km, 20km, MD4.0

Table with columns: Code, Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Pinotepa, Cruz Grande, Yonsonda, etc.

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Table with columns: CMIG, Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Matias Romero, Tiapa, Matias Romero, etc.





Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Sutanice-Enez, Edirne/Enez-Ca, Thassos island, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like VIZE, ARMM Kırkareli, ELBA Catalca, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like NEIC 06 17:14:24.2, SABA Saba, etc.

ISC 06 17:51:28.3-0.7, 24:30S; 0:04:67.22W, 0.04, h186km, 7km, n80, c144/103, mb3.8/3, 10C-2D, Chile-Argentina border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for various locations like San Pedro de A, San Lorenzo, Zapla, etc.

MKAR Makanchi Array 146.88 40 PKPbc PKPab 18 10 49.9 -0.5 comp=2.0, 6nm, 0.5s, baz=320, slow=3.0, SNR=9.1

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for IDC 06 18:54:27.7-1.4, 3:84N; 123:89E, h0km, mb3.3/4, mbmtmp3.3/4, Error ellipse: s-maj=190.9km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for IDC 06 18:57:54.4-4.8, 4:80S; 152:42E, h0km, mb3.5/5, mbmtmp3.6/5, Error ellipse: s-maj=151.8km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for NEIC 06 19:09:56.5-0.5, 19:34N; 0:02:155.143W, 0:008, h5km, 1km, Error ellipse: s-maj=4.0km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for HVO 06 19:09:55.9-0.5, 19:33N; 0:02:155.139W, 0:005, h6km, 2km, ML2.5/41, ML2.5/42(NEIC), Error ellipse: s-maj=2.7km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for STCH Steam Cracks, STCH Steam Cracks, STCH Kane Nui o Ham, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for SBLHL Steaming Bluff, SDHHI Sand Hill, UWB Uwekahuna Bluf, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for RSD Rainshed, HTC Hot Caves, MLH Mauna Loa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for HUH Hualalai, HUH Captain Cook, HPAH Hawaii Prepara, etc.

MHA Mahukona 1.11 320 Pg 19 10 13.9 -3.4

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for IDC 06 19:36:56.0-1.1, 32:47S; 79:95E, h0km, mb3.8/10, mbmp3.8/10, MS3.3/3, Error ellipse: s-maj=39.7km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for H40N2 CROZET ISLANDS 259 229 T, H40N1 CROZET ISLANDS 25.61 230 T, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for H01W2 Cape Leeuwin H 28.43 104 T, H01W3 Cape Leeuwin H 28.43 104 T, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for GQSA South Pole Qui 57.68 180 P, GUMO Gumu 77.03 65 LR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for MKAR Makanchi Array 78.92 2 P, KURBB Kurchatov Arra 82.74 359 P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for SONM Songino Array 83.37 18 P, BRTR Keskin Array B 83.70 326 P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for BVAR Borovoye Array 85.55 354 P, ZALV Zalesovo Beam 86.16 3 P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Contains station data for ENJ Nijar 0.42 210 Op, ENJ Nijar 0.42 210 Op, ENJ Zarzadilla de 0.58 20, etc.

Table with columns: Station Name, Time, Res, Phase ID, ISC, h, m, s, ISC. Includes stations like HIZ Hauriti, KHRZ Kereru, WPRZ Whakapapa, etc.

Table with columns: Code, Station Name, Time, Res, Phase ID, ISC, h, m, s, ISC. Includes stations like WBO comp=Z,15nm,1.3s, CASY Casey, etc.

Table with columns: Code, Station Name, Time, Res, Phase ID, ISC, h, m, s, ISC. Includes stations like SLA San Lorenzo, AASTB Santa Barbara, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like POSOF, DIGORSKOJE, ARDAHAN-MERKEZ, BORCKA, DAGI, LAC, KORA, GUDAI, LESKEN, GOLE, BADEMKAYA, ARDAN, SHADIZHATMAZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like WARRAMUNGA ARR, ALICE SPRINGS, NAWAO, ASAJ, MKAR, etc.

SNET 06 21:08:48.9.1.2, 81.1N:88.68W, h46km, ML3.9
GCG 06 21:08:49.4.0.7, 12:82N:88.75W, h52km, 20km, MD4.2
CATAC 06 21:08:49.1.0.3, 13.1N:88.99W, h35km, 3km, MA4, 1/32, MLV4, 1/32, Error ellipse: s-maj=5.5km s-min=1.7km

Large table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like ALJI, TECO, PACA, PMA, POS, COEG, CNRM, SCLA, LALI, LOMA, LOMA, UDBS, PMON, IGN, UTEC, SEMO, ITCA, UES, PMON, BOQS, CSGN, MJVF, MJAR, KSR, CMAR, CHTO, KLR, PETK, PPT, SONM, VNDA, MKAR, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like MTO3, QUEN, HERN, HOYN, POLN, CNGA, CNGN, COPN, YUSH, FGVE, etc.

SNET 06 21:30:08.6.1.2, 13:06N:89.54W, h39km, ML3.8
GCG 06 21:30:09.5.0.8, 13:13N:89.62W, h32km, 4km, MD3.8, ML3.7

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like LALI, JAYA, BOQS, LFRS, CEDA, CEVE, LBR, COEG, COEG, NUBE, ALJI, BLML, MTO3, FG16, LANC, CNCH, etc.

IDC 06 21:50:48.2.0.6, 8:55S:146.54E, h0km, mb3.9/14, mbmp4.0/17, ML4.1/3, MS3.4/8, Error ellipse: s-maj=21.6km s-min=9.0km az=60.0
NEIC 06 21:50:50.6.2.6, 8:60S:0.07:146.6E:0.1, h9km, 6km, mb4.5/16, Error ellipse: s-maj=19.5km s-min=5.8km az=65.0

IDC 06 21:50:53.1.0.6, 8:62S:0.06:146.62E:0.08, h35km, n40, m53.5, Easted New Guinea region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like PMG, COEN, COEN, CTAO, HNR, SAUI, FAKI, FAKI, MTN, MTN, WBD, WBD, WRR, WRR, WRA, WRA, EIDS, KNRA, KNRA, AS31, AS31, ASAR, ASAR, FITZ, FITZ, STKA, STKA, CAN, CAN, MBWA, MYLDM, MYLDM, MSJV, MSJV, MJAR, MJAR, KSR, CMAR, CHTO, KLR, PETK, PPT, SONM, VNDA, MKAR, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like NIL, QSPA, ILAR, BVAR, etc.

IDC 06 22:05:01.3.2.5, 28:16N:52.89E, h0km, mb3.5/8, mbmp3.5/9, ML3.3/1, MS2.6/2, Error ellipse: s-maj=53.2km s-min=3.7km az=161.0

TEH 06 22:05:06.9.28:26N:52:38E, h13km, 19km, DSN 06 22:05:10.4.2.0, 27:84N:52:33E, h10km, ML3.0/9, Error ellipse: s-maj=30.5km s-min=10.7km az=8.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like QIR, DSBU, JHRM, LMD1, LMD1, SHI, KAZZ, LAR1, LAR1, KLNJ, IRAM, IMEH, KRBI, JHBN, IBAF, NAZ, ICHK, MSFE, MDH, UOSS, HATD, ASHO, KRM1, ANAR, ALNE, MZR, SOHO, KRAH, GN1, etc.

IDC 06 22:08:56.1.0.9, 24:52N:121.57E, h0km, mb3.5/10, mbmp3.5/11, ML3.1/1, MS3.0/3, Error ellipse: s-maj=43.4km s-min=17.5km az=69.0

ASIES 06 22:08:57.9.24:91N:122:28E, h15km, ML3.8, Mw3.7, Moment Tensor Solution, Moment tensor: Scale 10^12 Nm^2; Mn=2.88; Mss=3.46; Mss=0.58; Ms=3.02; Ms=1.12; Mo=0.96; Fault plane solution: Mo=6.4403x10^21 Np1.50.96000, d30.22000, -133.02000, -NP2.278.16000, 68.40000, -68.32000, Principal axes: T Plg20.5370, Azm351.9690, N Plg20.0840, Azm89.8410; P Plg20.6000, Azm220.2990;

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and various station details for stations like TWB1, EGS, EGS, SXI1, SXI1, TTB, TTB, NWF, NWF, WFSB, WFSB, EOS2, EOS2, TNOU, TNOU, TNOU, TNOU, ILLA, ILLA, ESOA, ESOA, ESO3, ESO3, EODS, EODS, TWE, TWE, TWA, TWA, JYNG, JYNG, JYNG, JYNG, FUSB, FUSB, EWUT, EWUT, NHHD, NHHD, TWT, TWT, EYUJ, EYUJ, EYUJ, EYUJ, etc.

Table with columns: Station Name, Time, Res, and various codes. Includes stations like YON, ENA, ZUH, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, and various codes. Includes stations like SXFK, KSRS, MJAR, etc.

Table with columns: Code, Station Name, Time, Res, and various codes. Includes stations like STKA, BBOO, WR8, etc.





7d 0h

Table with columns: VAF, Ylistaro, 3.03 11 eP, Pn, 23 15 49.2 +0.6, 23 16 29.3, 23 15 49.5 +0.4, 23 15 49.5 +0.4, 3.12 47 MSG, 3.07 298 P, 3.07 298 P, 3.17 119 eP, 3.17 119 eP, 3.43 343 eS, 3.43 343 eS, 3.83 355 eP, 3.83 355 eP, 4.08 176 eP, 4.08 176 eP, 4.82 221 iP, 4.82 221 iP, 5.12 245 iP, 5.12 245 iP, 5.32 263 iP, 5.32 263 iP, 5.39 231 iP, 5.39 231 iP, 5.56 242 iP, 5.56 242 iP, 5.51 240 iP, 5.51 240 iP, 5.64 246 iP, 5.64 246 iP, 6.00 232 iP, 6.00 232 iP, 6.17 227 iP, 6.17 227 iP, 6.89 260 iP, 6.89 260 iP, 8.41 6 eP, 8.41 6 eP

ISC 06 23:24:11.6, 2.1, 6.22S:147.60E, h80km, 17km, mb3.7/4, mbmp4.0/7, MS3.1/1, Error ellipse: s-maj=32.1km s-min=1.4, 8km az=100.0 NEIC 06 23:24:12.0, 1.6, 6.22S:108.147E:0.05, h76km, 9km, mb3.4/18, Error ellipse: s-maj=11.4km s-min=7.0km az=200.0 ISC 06 23:24:11.7, 0.7, 6.23S:107.147E:0.09, h77km, n29, c087/31, mb4.2/8, Eastern New Guinea region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC, 3.19 188 P, 3.19 188 P, 4.97 66 Pn, 4.97 66 Pn, 7.80 298 P, 7.80 298 P, 7.2m, 0.7s, baz=16, slow=15, SNR=15 S, 23 25 37.1 +0.5, 74m, 0.3s, baz=197, slow=11, SNR=11 S, Rabaul Jayapura 8.20 298 P, 8.20 298 P, 2.4nm, 0.3s, baz=144, slow=17, SNR=5.1 Pn, 23 25 23.4 -0.6, 8.83 209 Pn, 8.83 209 Pn, 23 26 17.7 +1.1, 15.65 281 P, 15.65 281 P, 23 27 56.6 -0.1, 16.27 263 P, 16.27 263 P, 17.52 247 P, 17.52 247 P, 23 28 11.3 +0.3, 23 28 26.9, 18.60 222 P, 18.60 222 P, 23 28 23.7 +0.6, 18.60 222 P, 18.60 222 P, 23 28 23.8 +0.1, 18.60 222 P, 18.60 222 P, 23 28 17.1 -0.5, 18.60 222 P, 18.60 222 P, 23 28 18.2, 18.60 222 P, 18.60 222 P, 23 28 24.5 -0.3, 18.60 222 P, 18.60 222 P, 23 28 46.5 +0.4, 18.60 222 P, 18.60 222 P, 23 28 49.2, 21.78 216 P, 21.78 216 P, 23 28 58.0 +0.7, 21.78 216 P, 21.78 216 P, 23 28 57.8 +0.4, 23 32 53.9 -0.3, 24.36 172 P, 24.36 172 P, 23 29 22.8 +0.1, 24.36 172 P, 24.36 172 P, 23 29 34.1, 24.36 172 P, 24.36 172 P, 23 29 24.1 +0.5, 24.36 172 P, 24.36 172 P, 23 29 24.9, 25.64 301 LR, 25.64 301 LR, 23 41 02.4, 26.13 192 P, 26.13 192 P, 23 40 51.1 +1.4, 26.13 192 P, 26.13 192 P, 23 40 54.5, 26.13 192 P, 26.13 192 P, 23 40 54.1 +1.4, 28.55 201 P, 28.55 201 P, 23 29 59.9 -0.4, 28.55 201 P, 28.55 201 P, 23 30 08.6, 30.80 238 P, 30.80 238 P, 23 30 19.7 -0.7, 30.80 238 P, 30.80 238 P, 23 30 33.3, 38.77 223 P, 38.77 223 P, 23 31 28.3 -0.5, 38.77 223 P, 38.77 223 P, 23 34 07.0 -1.2, 71.74 23 P, 71.74 23 P, 23 35 24.5 -0.2, 81.96 25 P, 81.96 25 P, 23 35 26.6 +1.2, 81.96 25 P, 81.96 25 P, 23 36 31.6 -0.6, 83.74 180 P, 83.74 180 P, 23 36 31.0 -1.2, 23 35 24.5 -0.2, 23 35 26.6 +1.2, 23 36 31.6 -0.6, 23 36 31.0 -1.2

NEIC 06 23:40:02.3, 0.9, 18.906N:0.009, 155.23W:0.01, h10km, 2km, Error ellipse: s-maj=3.1km s-min=2.5km az=311.0 HVO 06 23:40:02.0, 1.5, 18.86N:0.01, 155.23W:0.02, h10km, 8km, ML2.5/20, ML2.5/36(NEIC), Error ellipse: s-maj=2.8km s-min=2.0km az=108.0, Hawaiian Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC, 0.39 306 P, 0.39 306 P, 23 40 09.9 +0.2, 0.41 337 P, 0.41 337 P, 23 40 14.0 0.0, 0.44 350 P, 0.44 350 P, 23 40 10.6 -0.1, 0.51 1 P, 0.51 1 P, 23 40 17.0 +0.4, 0.51 1 P, 0.51 1 P, 23 40 11.4 -0.7, 0.51 1 P, 0.51 1 P, 23 40 27.0, 0.51 1 P, 0.51 1 P, 23 40 18.2 -0.6, 0.52 6 P, 0.52 6 P, 23 40 11.5 -0.7, 0.53 353 P, 0.53 353 P, 23 40 11.6 -0.9, 0.53 10 P, 0.53 10 P, 23 40 11.7 -0.7, 0.53 10 P, 0.53 10 P, 23 40 18.9 -0.7, 0.53 316 P, 0.53 316 P, 23 40 11.5 -1.0, 0.53 316 P, 0.53 316 P, 23 40 18.3 -1.3, 0.53 13 P, 0.53 13 P, 23 40 21.6, 0.53 355 P, 0.53 355 P, 23 40 11.9 -0.6, 0.53 355 P, 0.53 355 P, 23 40 18.4 -1.1, 0.54 356 P, 0.54 356 P, 23 40 11.7 -0.8, 0.54 12 P, 0.54 12 P, 23 40 19.2 -0.4, 0.55 353 P, 0.55 353 P, 23 40 11.8 -0.9, 0.55 357 P, 0.55 357 P, 23 40 11.8 -0.9, 0.55 357 P, 0.55 357 P, 23 40 11.8 -1.0, 0.55 357 P, 0.55 357 P, 23 40 29.9, 0.55 337 P, 0.55 337 P, 23 40 12.3 -0.6, 0.55 337 P, 0.55 337 P, 23 40 25.9, 0.55 337 P, 0.55 337 P, 23 40 19.8 -0.4, 0.55 357 P, 0.55 357 P, 23 40 12.2 -0.8, 0.55 357 P, 0.55 357 P, 23 40 32.6, 0.55 357 P, 0.55 357 P, 23 40 32.9, 0.56 354 P, 0.56 354 P, 23 40 12.2 -0.8, 0.56 354 P, 0.56 354 P, 23 40 31.8, 0.56 355 P, 0.56 355 P, 23 40 12.1 -1.0, 0.60 355 P, 0.60 355 P, 23 40 13.5 -0.3, 0.61 20 P, 0.61 20 P, 23 40 12.7 -1.2, 0.61 20 P, 0.61 20 P, 23 40 20.4 -1.5

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Table with columns: MLH, Mauna Loa, 0.65 347 P, Pg, 23 40 13.4 -1.3, 23 40 22.0 -1.3, 23 40 26.6, 23 40 33.3, 0.71 313 P, Pg, 23 40 14.5 -1.5, 23 40 24.2 -1.3, 23 40 39.8, 0.78 342 P, Pg, 23 40 15.8 -1.4, 23 40 25.1 -2.3, 23 40 34.0, 1.00 330 P, Pg, 23 40 15.1 -2.2, 23 40 18.4 -3.0

IDC 06 23:43:43.7, 1.1, 36.55N:141.54E, h0km, mb3.8/8, mbmp3.8/3, ML3.5/4, ML3.7/4, Error ellipse: s-maj=30.3km s-min=18.6km az=67.0 NIED 06 23:43:50.9, 36.48N:141.03E, h44km, MW3.8, Moment Tensor Solution, s3 Moment tensor: Scale 10^14N; Mn:2.99; Mw:-0.75; Mw:-2.24; Mo:-3.38; Mo:-2.91; Mo:-1.58; Fault plane solution: Mo:5.40000x10^14 NP1: phi:10.00000, delta:0.00000, lambda:0.00000. NP2: phi:240.00000, delta:0.00000, lambda:113.00000. JMA 06 23:43:50.9, 0.1, 36.55N:0.3:141.0E:0.8, h44km, 1km, MD3.8/40, MV3.8/40, E OFF IBARAKI PREF JMA Feil Ji at E OFF IBARAKI PREF ISC 06 23:43:49.1, 1.4, 36.55N:0.04:141.16E:0.07, h31km, 9km, n29, c151/40, mb3.8/8, 11D, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC, 0.49 283 iP, 0.49 283 iP, 23 44 00.4 +0.4, 0.49 283 A, 0.49 283 A, 23 44 06.8 +0.3, 0.49 283 A, 0.49 283 A, 23 44 00.8, 0.49 251 iP, 0.49 251 iP, 23 44 04.0 +0.3, 0.49 251 P, 0.49 251 P, 23 44 06.9 +0.4, 0.67 334 iP, 0.67 334 iP, 23 44 03.3 +0.8, 0.67 334 P, 0.67 334 P, 23 44 03.3, 0.67 334 A, 0.67 334 A, 23 44 04.3, 0.83 251 iP, 0.83 251 iP, 23 44 13.5 +0.1, 0.83 251 P, 0.83 251 P, 23 44 14.2 -1.7, 0.83 251 A, 0.83 251 A, 23 44 04.5, 0.89 345 iP, 0.89 345 iP, 23 44 06.5 +0.9, 0.89 345 S, 0.89 345 S, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.25 328 A, 1.25 328 A, 23 44 12.5, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48 308 P, 23 44 16.0 +1.1, 1.56 280 P, 1.56 280 P, 23 44 34.3 +0.1, 1.56 280 S, 1.56 280 S, 23 44 27.4 +1.3, 0.89 345 A, 0.89 345 A, 23 44 06.5, 1.10 295 A, 1.10 295 A, 23 44 09.1, 1.25 328 A, 1.25 328 A, 23 44 12.5 +0.4, 1.25 328 S, 1.25 328 S, 23 44 27.9 0.0, 1.38 267 iP, 1.38 267 iP, 23 44 12.5 +0.2, 1.38 267 P, 1.38 267 P, 23 44 27.7 -1.9, 1.39 348 S, 1.39 348 S, 23 44 14.2 +0.6, 1.39 348 P, 1.39 348 P, 23 44 30.9 -1.1, 1.48 308 iP, 1.48 308 iP, 23 44 14.9 -1.0, 1.48 308 P, 1.48







7d 4h

Table with columns: Station Name, Time, Res, and other parameters. Includes stations like FINES FINESS Array B, MMAL Mount Meron Ar, TXAR Lajitas Array, LPAZ La Paz.

IDC 07 02:58:57.9-1.1, 1.26N-97.00E, h0km, mb4.0/14, mbtmp4.0/16, ML3.9/2, MS3.2/4, Error ellipse: s-maj=29.3km s-min=18.2km az=45.0

NEIC 07 02:59:00.3-1.7, 1.32N-0.03-96; 92E:0.0/4, h10km, 1km, mb4.4/10, Error ellipse: s-maj=6.7km s-min=5.2km az=54.0

DJA 07 02:59:02.6-0.7, 1.1N-3.97E, h15km, 3km, M4.2/10, mb4.3/1, MLV4.2/10

ISC 07 02:59:02.6-0.7, 1.28N-0.07-97.11E:0.06, h28km, n60, c157/56, mb4.4/25, MS3.5/3, 1D, Northern Sumatera

Main table of station data for the 7d 4h period, including station names, coordinates, and various parameters.

2019 JUN

Table with columns: Station Name, Time, Res, and other parameters. Includes stations like FINES FINESS Array B, ARCES ARCES Array B, GCG 07 03:02:38.9-0.4, CATEC 07 03:02:38.1-0.7, SNET 07 03:02:39.7-1.2, ISC 07 03:02:39.9-2.2.

ISC 07 03:02:39.9-2.2, 13.01N:01.8951W:0.06, h42km, 22km, n49, c054/64, El Salvador

Main table of station data for the 2019 JUN period, including station names, coordinates, and various parameters.

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Table with columns: Station Name, Time, Res, and other parameters. Includes stations like CRPR comp=E,14nm,2.8s, CRPR Cabo Rojo, PR, UJPR Utuado, UPR, P, MLPR Naguayes Islan, ECRP Experimental S, ECRP Experimental S, CELP Cerrillos, CELP Cerrillos.

HEL 07 04:07:34.6:0.4, 67.66N:33.72E, h0km, ML1.3, Explosion KOLA 07 04:07:33.9, 67.62N:33.82E, h0km, ML1.6, Error ellipse: s-maj=5.8km s-min=1.5km az=140.0, Khibiny, mines

Basvumchor, Central, Baltic States-Belarus-Northwestern Russia

Table with columns: Station Name, Time, Res, and other parameters. Includes stations like Code Station Name, APA Apatity, APA Apatity Array, LVZ Lovozero, LVZ Lovozero, KVDA Kovda, VRF Vario, VRF Teriberka, OLKF Oulanka, OLKF Riikki, RAUF Raja-Jooseppi, RAUF Maasilka, VADS Vadso, RNFI Rovaniemi, KEV Kevo, ARAO ARCESS Array A, ARCES ARCESS Array B, HEF Hetta.

UCR 07 04:23.4:0.7, 8.32N:182.82W, h25km, 3km, MWV3.7, Fault plane solution: NP1:0q147.18000°, s51.62000°, 1.70.72000°

UPA 07 04:30:24.5:0.9, 8.39N:82.78W, h19km, 2km, MWV3.6, ISC 07 04:30:23.6:1.0, 8.33N:0.04:82.82W:0.03, h28km, 8km, n42, c075/60, 3C-20D, Panama-Costa Rica border region

Main table of station data for the 374 period, including station names, coordinates, and various parameters.

NEIC 07 04:36:04.7:0.3, 39.261N:0.009-119.72W:0.02, h10km, 1km, Error ellipse: s-maj=2.8km s-min=2.3km az=109.0

REN 07 04:36:05.0:0.3, 39.264N:0.010-119.72W:0.02, h10km, 2km, ML2.4/8, ML2.3/22(NEIC), Error ellipse: s-maj=2.1km s-min=1.4km az=102.0, Nevada

Table with columns: Station Name, Time, Res, and other parameters. Includes stations like Code Station Name, MPK Pine Nut, MPK Martis Peak, MPK Mariposa, MPK Peavine Mount, PEAR Peavine Mount, PEAR Donner Summit, DONR Donner Summit.





2019 JUN

Table with columns: Station Name, Frequency, Mode, Power, and Time. Includes stations like MAK Makhachkala, KUMKUM, and various regional stations.

Table with columns: Station Name, Frequency, Mode, Power, and Time. Includes stations like KIV, GOF, DOMR, and various regional stations.

Table with columns: Station Name, Frequency, Mode, Power, and Time. Includes stations like AKASG, KIRV, KIRY, and various regional stations.

Table with columns: AAK, Ala-Archa, 18.81 80 P, Pn, 05 31 30.5 +2.7, etc. Lists various astronomical objects and their coordinates.

Table with columns: TIP, WHFO, Wadi Hawf, 24.55 274 P, P, 05 32 24.6 -1.6, etc. Lists various astronomical objects and their coordinates.

Table with columns: CMAR, Chiang Mai Arr, 48.36 104 P, P, 05 35 48.3 +0.4, etc. Lists various astronomical objects and their coordinates.

Table with columns: GCG 07 05:30:19.1 ± 0.9, 14:52N, 90:72W, h1 km ± 5 km, MD3.5, etc. Contains specific astronomical data and coordinates.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, ISC, Time, Res, h m s, etc. Lists station names and associated data.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, ISC, Time, Res, h m s, etc. Lists station names and associated data.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, ISC, Time, Res, h m s, etc. Lists station names and associated data.

ATH 07 05:32:02.7 40:58'N-20:63'E h18km, 6km, ML2.3/6, Manual Solution by N.Liadopoulou First location: 2019/06/07 05:33:22. This location: 2019/06/07 06:19:49 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 12 km; Longitude uncertainty: 4 km

TIR 07 05:32:05.0, 40:53'N-20:73'E, h0km, 7km, ML2.9/3 SKO 07 05:32:05.1, 40:67'N-20:77'E, h0km, ML2.1

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, ISC, Time, Res, h m s, etc. Lists station names and associated data.



Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Babate, Schoferville, Kangerlussuaq, etc.

CGC 07 06:15:28.3:0.9, 14:82N:91:23W, h173km, 10km, MD3.6, ML3.3, Guatemala

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like El Palmar, Qui, Huehuetenango, etc.

RSNC 07 06:23:02.8:0.4, 10°N:3°8'3W, h0km, M2.2, ML2.2

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Catarc, UPA, etc.

ISC 07 06:23:05.1:2.0, 10:10N:0°03:83:05W, 0:03, h25km, 14km, n30, 01:13/43, 1D, Costa Rica

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Tortugero, Durika, Ojochal, etc.

ISC 07 06:49:47.0:3.4, 53:84N:88:05E, h0km, mbtmp2.9/2, ML2.5/2, Error ellipse: s-maj=27.7km s-min=17.3km az=58.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Zalesovo, ZALV, KURBB, etc.

CATAC 07 06:53:57.3:1.2, 12°N:9°9'0W, h1km, M3.0/10, MLV3.0/10, Error ellipse: s-maj=18.4km s-min=16.6km az=177.9, confirmed

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SNET, CGC, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like JAYA, JAYA, JAYA, etc.

NEIC 07 07:17:54.1:0.8, 19:45N:0°08:145:5E, 0:2, h136km, 11km, mb4.3/15, Error ellipse: s-maj=25.9km s-min=11.6km az=84.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like JCY, JCY, JCY, etc.

ISC 07 07:17:53.8:0.8, 19:45N:0°09:145:6E, 0:2, h147km, n25, 01:16/26, mb4.0/14, Mariana Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like JCY, JCY, JCY, etc.

ISC 07 07:17:54.6:3.8, 19:51N:145:64E, h153km, 34km, mb3.7/3, mbtmp3.8/8, Error ellipse: s-maj=37.2km s-min=15.4km az=93.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like JMM, JMM, JMM, etc.

ISC 07 07:25:16.0:1.3, 53:48N:87:46E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ZALESOVO, ZALV, KURBB, etc.

ISC 07 07:27:05.0:1.3, 54:12N:87:08E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ZALESOVO, ZALV, KURBB, etc.

ASRS 07 07:40:02.0:1.1, 54:20N:87:11E, h0km, M2.9, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

ISC 07 07:40:03.8:2.5, 54:23N:87:25E, h0km, mbtmp3.3/3, ML2.5/3, Error ellipse: s-maj=21.3km s-min=14.0km az=61.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ZALESOVO, ZALV, KURBB, etc.

NNC 07 07:44:20.9:12.0, 37:34N:70:26E, h0km, mb3.7, mpv3.2, 2C-2D, Error ellipse: s-maj=107.7km s-min=76.9km az=144.0, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like KK31, KK31, etc.

ASRS 07 07:45:08.0:1.4, 53:61N:88:01E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

ISC 07 07:45:09.9:3.5, 53:60N:88:01E, h0km, mbtmp2.8/2, ML2.4/2, Error ellipse: s-maj=35.9km s-min=22.4km az=82.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ZALESOVO, ZALV, KURBB, etc.

HLW 07 08:14:04.2:3.7, 17N:30:69E, h30km, 21km, M0.5, M1.3, G11 07 08:14:06.8:0.0, 36:94N:0:02:30:448E, 0:01, h83km, Mw3.3, confirmed

ISK 07 08:14:07.9:3.7, 21N:30:53E, h96km, ML3.1/32, AFAD 07 08:14:08.0, 37:17N:30:55E, h83km, 6km, ML3.2, NIC 07 08:14:10.7, 37:12N:30:93E, h40km, 31km, ML3.1/8, ISC 07 08:14:06.0:1.3, 37:17N:0:04:30:59E, 0:03, h109km, 7km, n119, 01:51/144, Turkey

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like BUCU, BUCU, BUCU, etc.











7d 11h

RUS	Russkaya	3.73	27	eP	Pn	11 30 20.4	-0.9	
RUS				eS	Sn	11 30 21.9	-2.0	
APC	Apache	3.89	13	PN	Pn	11 30 24.7	+1.3	
APC	Apache	3.89	13	Pn	Pn	11 30 24.7	+1.3	
PEA08	Petrovlovsk-	4.16	17		Pn	11 30 27.1	+0.1	
PEA08	Petrovlovsk-	4.16	17	c/PN	Pn	11 30 27.1	+0.1	
PETK	Petrovlovsk-	4.16	17		Pn	11 30 27.4	+0.3	
PETK	Petrovlovsk-	4.16	17	Pn	Pn	11 30 27.9	+0.8	
PETK	comp=E,12nm,0.3s,baz=170,slow=1,SNR=156				Sn	11 31 13.5	-0.9	
PETK	comp=E,12nm,0.3s,baz=174,slow=6,SNR=336				Sn	11 31 13.5	-0.9	
PETK	comp=E,12nm,0.3s,baz=174,slow=4,SNR=336				Sn	11 31 13.5	-0.9	
PETK	comp=E,12nm,0.3s,baz=200,slow=4,SNR=336				Sn	11 31 13.5	-0.9	
PETK	Petrovlovsk-	4.16	17	PN	Pn	11 30 27.4	+0.3	
PET	Petrovlovsk	4.30	24		Pn	11 30 29.9	+0.1	
PET	Petrovlovsk	4.30	24		Sn	11 30 29.9	+0.1	
PET	Petrovlovsk	4.30	24		Pn	11 30 29.3	+0.3	
PET	Petrovlovsk	4.30	24		AMB	11 30 35.3		
PET	comp=Z,99nm,1.7s							
PET	Petrovlovsk	4.30	24	eP	Pn	11 30 29.1	+0.1	
PET	Petrovlovsk	4.30	24	eS	Sn	11 31 17.7	-0.1	
PET	Petrovlovsk	4.30	24	eP	Pn	11 30 29.3	+0.3	
PET	Petrovlovsk	4.30	24	AMB	AMB	11 30 35.3		
PET	comp=Z,70nm,0.2s				eS	Sn	11 31 17.2	-0.6
PET	comp=Z,420nm,0.5s				A	A	11 31 20.7	
PET	comp=Z,380nm,0.5s				AMS	AMS	11 32 22.5	
PET	comp=Z,860nm,10.0s				AMS	AMS	11 32 22.5	
PET	comp=Z,650nm,10.0s				AMS	AMS	11 32 22.5	
PET	Petrovlovsk	4.30	24	P	Pn	11 30 29.4	+0.4	
INSR	Institute	4.32	24	PN	Pn	11 30 30.7	+1.4	
INSR	Institute	4.32	24	P	Pn	11 30 30.7	+1.4	
DALK	Dalny	4.33	25	PN	Pn	11 30 29.6	+0.2	
DALK	Dalny	4.33	25	S	Sn	11 31 18.8	+0.2	
DALK	Dalny	4.33	25	eP	Pn	11 30 29.6	+0.2	
DALK	Dalny	4.33	25	eS	Sn	11 31 18.8	+0.2	
UGLVA	Uglovaya	4.51	24	PN	Pn	11 30 32.9	+0.8	
UGLVA	Uglovaya	4.51	24	eP	Pn	11 30 32.9	+0.8	
KOK	Koryaka	4.54	23	PN	Pn	11 30 34.0	+1.7	
KOK	Koryaka	4.54	23	Pn	Pn	11 30 34.1	+1.7	
AVH	Avacha	4.54	23	PN	Pn	11 30 33.9	+1.6	
AVH	Avacha	4.54	23	eP	Pn	11 30 34.0	+1.6	
SMAR	Somma	4.55	24	PN	Pn	11 30 33.7	+0.9	
SMAR	Somma	4.55	24	Pn	Pn	11 30 33.7	+0.9	
KRER	Koryakskii	4.58	23	PN	Pn	11 30 34.3	+1.3	
KRER	Koryakskii	4.58	23	Pn	Pn	11 30 34.3	+1.3	
SDLR	Sedlovina	4.59	24	PN	Pn	11 30 33.2	+0.1	
SDLR	Sedlovina	4.59	24	Pn	Pn	11 30 33.2	+0.1	
KRX	Arik	4.60	22	PN	Pn	11 30 34.5	+1.2	
KRX	Arik	4.60	22	eP	Pn	11 30 34.5	+1.2	
NLC	Nalytchevo	4.63	28	PN	Pn	11 30 31.9	-1.5	
NLC	Nalytchevo	4.63	28	eP	Pn	11 30 32.0	-1.5	
GNL	Ganally	4.76	16	PN	Pn	11 30 37.4	+1.9	
GNL	Ganally	4.76	16	eP	Pn	11 30 37.4	+1.9	
SPN	Mys Shipunski	4.79	33	PN	Pn	11 30 34.9	-0.8	
SPN	Mys Shipunski	4.79	33	eP	Pn	11 30 35.0	-0.8	
SPN	Mys Shipunski	4.79	33	eS	Sn	11 31 28.1	-1.8	
KII	Karymskiy	5.42	24	PN	Pn	11 30 48.0	+1.6	
KII	Karymskiy	5.42	24	eP	Pn	11 30 48.0	+1.6	
MKZ	Mys Kozlova	6.57	32	PN	Pn	11 30 58.4	-1.7	
MKZ	Mys Kozlova	6.57	32	eP	Pn	11 30 58.4	-1.7	
KUR	Kuril'sk	6.63	237	ePN	Pn	11 31 02.7	+1.6	
KUR	Kuril'sk	6.63	237	i/S	Sn	11 31 02.7	+1.6	
KUR	comp=Z,106nm,0.7s				pmax	pmax		
KUR	comp=N,12m,1.9s				smax	smax		
KUR	comp=E,22m,1.9s				smax	smax		
KUR	comp=E,242nm,0.9s				smax	smax		
KUR	comp=N,200nm,0.7s				smax	smax		
KUR	Kuril'sk	6.63	237	eP	Pn	11 31 02.6	+1.6	
KUR	Kuril'sk	6.63	237	eP	Pn	11 31 02.1	+1.1	
KUR	Kuril'sk	6.63	237	AMB	AMB	11 31 07.8		
KUR	comp=N,110nm,0.6s				eS	Sn	11 32 14.2	-1.0
KUR	Kuril'sk	6.63	237	A	A	11 32 43.8		
KUR	comp=N,200nm,0.6s				A	A	11 32 43.8	
KUR	comp=N,240nm,0.6s				AMS	AMS	11 33 11.0	
KUR	comp=N,890nm,12.0s				AMS	AMS	11 33 11.0	
KUR	comp=N,850nm,12.0s				AMS	AMS	11 33 11.0	
TUMD	Tumrok D	6.71	24	PN	Pn	11 31 02.5	+0.5	
TUMD	Tumrok D	6.71	24	Pn	Pn	11 31 02.5	+0.5	
ESO	Esso	7.03	14	PN	Pn	11 31 07.7	+1.3	
ESO	Esso	7.03	14	Pn	Pn	11 31 07.7	+1.3	
KMNR	Kamenistaya	7.17	21	PN	Pn	11 31 09.7	+1.3	
KMNR	Kamenistaya	7.17	21	Pn	Pn	11 31 09.7	+1.3	
KIRR	Kirishev	7.37	21	PN	Pn	11 31 12.7	+1.5	
KIRR	Kirishev	7.37	21	Pn	Pn	11 31 12.7	+1.5	
BZWR	Bezymyanni-We	7.42	21	PN	Pn	11 31 13.2	+1.3	
BZWR	Bezymyanni-We	7.42	21	Pn	Pn	11 31 13.3	+1.3	
BZGR	Bezymyanni-Gr	7.45	22	PN	Pn	11 31 13.6	+1.4	
BZGR	Bezymyanni-Gr	7.45	22	Pn	Pn	11 31 13.7	+1.4	
SRD	Sredinnyy	7.58	17	PN	Pn	11 31 15.9	+2.0	
SRD	Sredinnyy	7.58	17	Pn	Pn	11 31 16.0	+2.0	
KLY	Klyuchi	7.77	21	PN	Pn	11 31 17.8	+1.3	
KLY	Klyuchi	7.77	21	eP	Pn	11 31 17.8	+1.3	
SHO	Shikotan	8.09	233	ePN	Pn	11 31 19.7	-1.3	
SHO	Shikotan	8.09	233	pmax	pmax			
SHO	comp=Z,44nm,0.3s				pmax	pmax		
SHO	Shikotan	8.09	233	eP	Pn	11 31 19.8	-1.1	
SHO	Shikotan	8.09	233	eP	Pn	11 31 19.7	-1.3	
SHO	Shikotan	8.09	233	AMB	AMB	11 31 26.2		
SHO	comp=N,40nm,0.3s				eS	Sn	11 32 49.1	-1.9
SHO	Shikotan	8.09	233	AMS	AMS	11 34 06.1		
SHO	comp=N,570nm,15.0s				AMS	AMS	11 34 06.1	
SHO	comp=N,480nm,15.0s				AMS	AMS	11 34 06.1	
SMKR	Semkarok	8.21	23	PN	Pn	11 31 23.1	+0.5	
SMKR	Semkarok	8.21	23	Pn	Pn	11 31 23.2	+0.5	
KBTR	Krutoberegovo	8.28	29	PN	Pn	11 31 22.4	-1.0	
KBTR	Krutoberegovo	8.28	29	Pn	Pn	11 31 22.5	-1.0	
YUK	Yuzh-Kuril'sk	8.50	237	ePN	Pn	11 31 26.1	-0.5	
YUK	Yuzh-Kuril'sk	8.50	237	pmax	pmax			
YUK	comp=N,45nm,0.3s				pmax	pmax		
YUK	comp=Z,346nm,0.3s				pmax	pmax		
YUK	comp=N,80nm,0.2s				pmax	pmax		
YUK	Yuzh-Kuril'sk	8.50	237	eP	Pn	11 31 26.9	+0.3	
YUK	Yuzh-Kuril'sk	8.50	237	eP	Pn	11 31 26.9	+0.3	
YUK	comp=E,430nm,0.4s				eS	Sn	11 32 59.7	-1.3
YUK	comp=E,140nm,0.5s				A	A	11 33 02.2	
YUK	comp=E,130nm,0.5s				A	A	11 33 02.2	
TYV	Tymovskoe	8.60	286	ePN	Pn	11 31 30.8	+2.9	
TYV	Tymovskoe	8.60	286	eS	Sn	11 31 05.0	+1.7	
TYV	Tymovskoe	8.60	286	pmax	pmax			
TYV	comp=Z,26nm,1.0s				pmax	pmax		
TYV	comp=Z,100nm,5.4s				smax	smax		
TYV	comp=N,5.0nm,1.1s				smax	smax		
TYV	comp=N,100nm,1.1s				smax	smax		
TYV	comp=N,100nm,3.6s				smax	smax		
TYV	comp=N,100nm,3.6s				MLR	MLR		
TYV	comp=Z,600nm,16.0s				MLR	MLR		
TYV	Tymovskoe	8.60	286	eP	Pn	11 31 30.1	+2.2	
TYV	Tymovskoe	8.60	286	eS	Sn	11 31 03.5	+0.2	
TYV	Tymovskoe	8.60	286	AMS	AMS	11 34 12.0		
TYV	comp=Z,22m,15.0s				AMS	AMS	11 34 12.0	
TYV	comp=Z,920nm,15.0s				AMS	AMS	11 34 12.0	
BKI	Bering	8.73	42	PN	Pn	11 31 28.0	-1.7	

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BKI	Bering	8.73	42	eP	Pn	11 31 28.1	-1.7	
RUSJ	Misakicho	8.80	239	ePN	Pn	11 31 32.9	+2.3	
RUSJ	Misakicho	8.80	239	eS	Sn	11 33 14.4	+6.1	
YSS	Yuzhno-Sakhal	8.97	261	Pn	Pn	11 31 30.8	+2.1	
YSS	Yuzhno-Sakhal	8.97	261	ePN	Pn	11 31 34.8	+1.9	
YSS	Yuzhno-Sakhal	8.97	261	eS	Sn	11 33 14.5	+2.1	
YSS	comp=Z,100nm,3.4s				pmax	pmax		
YSS	comp=Z,40nm,0.7s				pmax	pmax		
YSS	comp=Z,400nm,16.0s				MLR	MLR		
YSS	Yuzhno-Sakhal	8.97	261	eP	Pn	11 31 34.8	+1.9	
YSS	Yuzhno-Sakhal	8.97	261	eS	Sn	11 33 11.9	-0.5	
UGL	Uglegorsk	8.97	275	ePN	Pn	11 31 38.3	+5.4	
UGL	Uglegorsk	8.97	275	pmax	pmax			
UGL	Uglegorsk	8.97	275	eP	Pn	11 31 34.9	+2.0	
UGL	Uglegorsk	8.97	275	eS	Sn	11 31 39.0		
UGL	comp=Z,176nm,0.7s				eS	Sn	11 33 12.3	-0.1
UGL	Uglegorsk	8.97	275	eP	Pn	11 31 34.9	+2.0	
UGL	Uglegorsk	8.97	275	eS	Sn	11 31 39.0		
UGL	comp=Z,180nm,0.7s				A	A	11 33 41.0	
UGL	Uglegorsk	8.97	275	eP	Pn	11 31 34.9	+2.0	
UGL	Uglegorsk	8.97	275	eS	Sn	11 31 39.0		
UGL	comp=Z,300nm,9.0s				A	A	11 33 41.0	
UGL	comp=Z,700nm,9.0s				A	A	11 33 41.0	
NMR	Nemuro-Hokkai	9.02	234	ePN	Pn	11 31 30.7	-2.9	
NMR	Nemuro-Hokkai	9.02	234	eP	Pn	11 31 31.0	-2.6	
OKH	Okha	9.14	304	AMS	AMS	11 36 09.1		
OKH	comp=Z,300nm,16.0s				AMS	AMS	11 36 09.1	
OKH	comp=Z,500nm,16.0s				AMS	AMS	11 36 09.1	
NKL	Nikolayevsk	10.27	299	eP	Pn	11 31 52.5	+1.8	
NKL	Nikolayevsk	10.27	299	erx	rx	11 34 17.9		
AKA	Kamikawa-asahi	10.33	246		Pn	11 31 51.6	-0.1	
ASAJ	Asahikawa	10.34	246	PN	Pn	11 31 53.8	+2.2	
ASAJ	comp=Z,3.9nm,0.3s,baz=68,slow=12,SNR=30				Sn	Sn	11 33 55.9	+1.0
ASAJ	comp=Z,0.2nm,0.3s,baz=314,slow=30,SNR=6.1				Sn	Sn	11 33 55.9	+1.0
ASAJ	comp=Z,474nm,21.7s,baz=60,slow=25				LR	LR	11 35 22.7	
ASAJ	Asahikawa	10.34	246	PN	Pn	11 31 51.6	-0.1	
MA2	Magadan	10.84	346	Pn	Pn	11 31 59.0	+0.6	
MA2	Magadan	10.84	346	Pn	Pn	11 31 58.4	-0.1	
MA2	comp=Z,3.2nm,0.3s,baz=157,slow=8.6,SNR=26				Pn	Pn	11 36 55.2	
MA2	comp=Z,293nm,18.3s,baz=174,slow=43				Pn	Pn	11 36 55.2	
MA2	Magadan	10.84	346	ePN	Pn	11 31 58.2	-0.3	
MA2	Magadan	10.84	346	P	P	11 31 58.9	+0.4	
ERMO	Erimo	11.33	236	Pn	Pn	11 32 03.4		



7d 11h

Table with columns: Station, Frequency, Power, and other parameters. Includes stations like GTA, P32M, R32K, P33M, etc.

Table with columns: Station, Frequency, Power, and other parameters. Includes stations like CMAR, KSH, KSH, KSH, etc.

Table with columns: Station, Frequency, Power, and other parameters. Includes stations like PV05, PV03, PV13, etc.





Table with columns: Call Sign, Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like ESEN, GCAM, ANTE, etc.

Table with columns: Call Sign, Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like ANX, ANX, ANX, etc.

Table with columns: Call Sign, Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like TEOL, KBA, KBA, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Rows include stations like KARAT Karatay Array, KABL Kabul, ARCES ARCESS Array B, etc.

IDC 07 12:35:59.7403,0.5274N,32.79E,h0km,Error ellipse: s-maj=164.8km s-min=101.4km az=2.0, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Rows include stations like I43RU DUBNA INFRASON, I26DE FREYUNG INFRAS, I37NO 37NO, etc.

IDC 07 12:35:59.7403,0.5274N,32.79E,h0km,Error ellipse: s-maj=164.8km s-min=101.4km az=2.0, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Rows include stations like KURBB Kurchatov Arra, MKAR Makanchi Arra, ZALV Zalesovo Beam, etc.

7d 14h

Table with station names (N41A, H41A, G41A, etc.), coordinates, and time/residual data.

AEIC 07 13:09:11.5:1.1, 51.34N:0.07:178.16W:0.06, h34km, 8km, Error ellipse: s-maj=11.1km s-min=5.1km az=195.0

NEIC 07 13:09:10.8:0.7, 51.27N:0.06:178.22W:0.07, h35km, 2km, mb3.4/13, ML3.0(AEIC), Error ellipse: s-maj=11.2km

s-min=6.5km az=197.0, Androean Islands

Main station list for the first section, including station names, coordinates, and time/residual data.

GCG 07 13:31:13.3:4.1, 14.81N:94.30W, h35km, 26km, MD4.4, ML3.6

MEX 07 13:31:16.3:0.5, 14.99N:94.25W, h22km, 31km, MD4.1

ISC 07 13:31:07.7:1.5, 14.85N:0.05:94.35W:0.02, h17km, 11km, n26, c173/50, Off coast of Chiapas

Main station list for the second section, including station names, coordinates, and time/residual data.

ECX 07 13:41:34.2:0.3, 31.01N:114.23W, h6km, 5km, ML3.5

MEX 07 13:41:34.5:0.4, 31.27N:114.47W, h3km, 3km, MD4.0

ISC 07 13:41:34.3:1.1, 31.11N:0.05:114.28W:0.03, h22km, 9km, n10, c178/19, 3C-2D, Gulf of California

Main station list for the third section, including station names, coordinates, and time/residual data.

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Summary table for TJIJ, TJUC, TUC, TUC, TUC, HSI, NZIG, NZIG, NZIG stations.

ISN 07 14:13:08.1:0.6, 34.67N:46.31E, h14km, 9km, ML2.5

TEH 07 14:13:09.2:3.4:65N:46.25E, h10km, 30km

ISC 07 14:13:09.1:1.0, 34.67N:0.05:46.25E:0.05, h13km, 10km, n7, c082/11, Western Iran

Main station list for the fourth section, including station names, coordinates, and time/residual data.

IDC 07 14:25:02.7:0.7, 3.64S:134.74E, h0km, mb4.1/9, mbmp4.2/12, ML4.2/3, MS3.5/9, Error ellipse: s-maj=30.8km s-min=18.2km az=69.0

NEIC 07 14:25:03.5:1.8, 3.56S:0.05:134.71E:0.06, h10km, 1km, mb4.4/23, Error ellipse: s-maj=12.9km s-min=5.4km az=126.0

DJA 07 14:25:04.6:0.2, 4.3S:133.5E, h10km, M4.6/14, mB5.1/6, mb4.6/13, ML4.7/14, Mw(mB)4.5/6

ISC 07 14:25:05.2:0.5, 3.62S:0.05:134.77E:0.06, h25km, n82, c212/76, mb24.0/16, MS3.5/8, Iran Jaya region

Main station list for the fifth section, including station names, coordinates, and time/residual data.

JAY Jayapura 27m, 0.8s

TNTI Ternate 8.59 300 Pn Pn 14 27 05.9 -2.1

SANI Sanana 9.81 280 Pn Pn 14 27 11.6 -0.8

DRS Darwin Rock St 9.56 203 P Pn 14 27 22.7 +1.4

MTN Manton Dam 9.85 201 Pn Pn 14 27 27.6 +2.3

SOEI Soe 12.08 239 Pn Pn 14 27 56.1 -0.1

SOEI Soe 12.08 239 Pn Pn 14 27 56.1 -0.1

LWU1 Luwuk 12.26 282 P Pn 14 27 58.8 +0.5

MANU Manus Island 12.68 83 Pn Pn 14 28 02.1 -2.0

COEN Coen 13.21 142 Pn Pn 14 28 09.4 -1.8

KNRA Kunurra 13.36 206 Pn Pn 14 28 10.6 -2.8

APSI Ampapa 13.38 281 Pn Pn 14 28 14.7 +1.0

PMG Port Moresby 13.58 116 LR LR 14 34 37.0 -0.9

EDFI Ende, Flores 13.96 248 P Pn 14 28 22.1 +0.4

SPSI Sidrap Palu 14.97 268 Pn Pn 14 28 36.8 +1.4

WB0 Warramunga Arr 16.06 181 Pn Pn 14 28 44.0 -5.5

WB2 Warramunga Arr 16.23 181 Pn Pn 14 28 46.8 -4.9

WRA Warramunga Arr 16.23 181 Pn Pn 14 28 47.7 -4.0

WR8 Warramunga Arr 16.24 181 Pn Pn 14 28 46.0 -5.8

WR0 Warramunga Arr 16.25 181 Pn Pn 14 28 48.7 -3.2

FITZ Fitzroy Crossi 16.95 217 Pn Pn 14 28 57.0 -3.7

FITZ Fitzroy Crossi 16.95 211 Pn Pn 14 28 59.4 -1.3

FITZ Fitzroy Crossi 16.95 211 Pn Pn 14 28 59.4 -1.3

MTSU Mount Surprise 17.19 148 P P 14 29 07.6 +2.3

QIS Mount Isa 17.48 165 P P 14 29 11.8 +3.3

CTAO Charters Tower 19.84 147 P P 14 29 32.2 -2.1

AS01 Alice Springs 19.95 182 P Pn 14 29 37.1 -0.2

AS31 Alice Springs 19.95 182 P Pn 14 29 36.2 +0.6

AS31 Alice Springs 19.95 182 P Pn 14 29 36.2 +0.6

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Summary table for KURK, KURB, KK31, KKAR, VNDA, VNDA stations.

ISN 07 14:25:45.1, 40.41N:51.98E, h39km, m3.3

IDC 07 14:25:48.6:7.7, 41.58N:51.68E, h0km, mb3.5/1, mbmp3.5/4, ML2.8/2, Error ellipse: s-maj=121.6km

ISC 07 14:25:41.7:1.1, 40.46N:0.06:52.34E:0.07, h35km, n30, c221/49, 3C-1D, Turkmenistan

Main station list for the sixth section, including station names, coordinates, and time/residual data.

GALA Gala 1.67 269 Pn Pn 14 26 19.4 +3.5

ALIB & Aumili-Byram 2.60 260 Sn Sn 14 26 50.5 -1.1

ATGJ Altighajh 2.62 280 Sn Sn 14 26 54.1 +1.8

SIYZ Siyzen 2.68 284 Pn Pn 14 26 24.9 +2.4

SIZA Siza 2.68 284 Pn Pn 14 26 56.5 +2.7

PIRK Pirkuli 2.87 278 Sn Sn 14 26 26.7 +1.6

POL5 Poshon 2.87 278 Sn Sn 14 26 58.8 +1.3

QUBA Quba, Azerbaj 3.05 288 Pn Pn 14 26 29.2 +1.8

QUBA Quba 3.05 288 Pn Pn 14 27 02.1 -0.7

LENKER Lenkeran, Azer 3.26 239 Pn Pn 14 26 33.4 +0.6

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7

QUSAR Qusar 3.26 290 Pn Pn 14 27 06.1 -1.7



Table with columns for station ID, name, elevation, frequency, mode, and coordinates. Includes stations like MESA, J25K, G26K, etc.



Table with columns for station ID, name, frequency, power, mode, and coordinates. Includes stations like B20K Meade River, B22K Tesheqvak Lake, F31M Tsigheitchic, etc.

Table with columns for station ID, name, frequency, power, mode, and coordinates. Includes stations like PEAOB Petropavlovsk, PETK Petropavlovsk, PETK Petropavlovsk, etc.

Table with columns for station ID, name, frequency, power, mode, and coordinates. Includes stations like YSS Yuzhno-Sakhali, JFWS Jewell Farm, JFWS Jewell Farm, etc.

7d 14h

Table with columns: CIT, comp, Az, El, S, P, Az, El, S, P, Az, El, S, P. Rows include stations like Changchun, Nanjing, Voronezh, etc.

2019 JUN

Table with columns: ARTI, Az, El, S, P, Az, El, S, P, Az, El, S, P. Rows include stations like Voronezh, Kurchatov, etc.

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Table with columns: VSR, Az, El, S, P, Az, El, S, P, Az, El, S, P. Rows include stations like Storzhevo, Bergamo, etc.





Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like PSIM El Granado, EGRO El Granado, PVAQ Vaqueiros, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like D23K Nanushuk River, D28M Babbage River, D28M Burrell Mountain, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like YUK6 Outpost Mounta, HYT Haines Junction, KDAAK Kodiak Island, etc.

AEIC 07 16:43:25.1±1.6, 69.57N±0.05; 144.96W±0.09, h10km±6km, ML3.3, ML3.3/122(NEIC), Error ellipse: s-maj=7.3km

NEIC 07 16:43:26.9±1.2, 69.64N±0.05; 144.95W±0.09, h10km±2km, Error ellipse: s-maj=8.7km s-min=5.0km az=7.0

IDC 07 16:43:26.2±1.4, 69.74N±0.04; 144.54W±0.08, h0km±3.6/3, mbmp3.5/9, ML3.3/6, Error ellipse: s-maj=25.6km s-min=17.5km az=97.0

ISC 07 16:43:25.8±0.7, 69.67N±0.04; 144.93W±0.03, h10km±112.1, ±153/88, mb±3.6, Northern Alaska

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like CAMD Camden Bay, C26K Camden Bay, C27K Jago River, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like D23K Indian Mountain, I29M Ogilvie Camp, H21K Melozitna Rive, etc.

TAP 07 17:03:58.2, 23.64N±120.70E, h13km, ML2.2, B, Taiwan

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like WKG Gukeng, WHTY Xinyi Township, WDLH Douliu, etc.

Table with columns: Station Name, Frequency, Power, and other technical details for WARB, WARP, WHP, and WPH.

TAP 07 17:04:04.3, 22.96N, 120.89E, h8km, 1km, ML2.2, C,

Main table for TAP 07 17:04:04.3, listing stations like TWG, TWGB, TWGB2, LONT, LONT2, LONT3, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

DJA 07 17:08:17.2, 0.8, 3.3, 13.6E, h20km, 13km, M4.0/7, mB5.3/2, mb4.2/4, MLV3.9/7, Mw(mB)4.7/2, Irian Jaya region

Main table for DJA 07 17:08:17.2, listing stations like SRPI, RPKPI, FAKI, SWI, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

ISN 07 17:30:43.2, 1.0, 32.75N, 47.76E, h24km, 7km, ML2.6, TEH 07 17:30:43.1, 32.78N, 47.67E, h10km, 118km, ISC 07 17:30:43.6, 1.5, 32.79N, 0.07, 47.67E, h10km, n9, r1500/13, Iran-Iraq border region

Main table for ISN 07 17:30:43.2, listing stations like IKFM, ILBA, IBDR, IBDR2, IBZ, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

Table with columns: Station Name, Frequency, Power, and other technical details for YOIG, INVM, AOVM, etc.

Main table for 2019 JUN, listing stations like YOIG, INVM, AOVM, TLVM, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

TXAR comp=Z, 230m, 19.3s, baze=154, slow=36 0.1nm, 0.3s

Main table for TXAR, listing stations like ANMO, NVAR, PDAR, ELK, SADO, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

ISC 07 17:47:31.2, 50.0, 19.79S, 179.27W, h653km, 453km, mb2.2, mbmtb3.3/2, Error ellipse: s-maj=439.3km s-min=218.7km az=102.0, Fiji Islands region

Main table for ISC 07 17:47:31.2, listing stations like WRA, ASAR, AKASG, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

Table with columns: Station Name, Frequency, Power, and other technical details for EGOR, EQES, EQES2, etc.

NEIC 07 18:19:24.3, 1.6, 5.44N, 0.06, 125.27E, h45km, 8km, mb4.4/28, Error ellipse: s-maj=11.7km s-min=8.6km az=92.0

ICD 07 18:19:29.1, 1.4, 5.45N, 125.40E, h99km, 13km, mb3.5/1, mbmp3.9/12, MS3.0/8, Error ellipse: s-maj=23.3km s-min=12.2km az=73.0

ISC 07 18:19:29.1, 0.5, 5.43N, 0.06, 125.39E, h100km, n68, r1519/49, mb4.2/23, Mindanao region

Main table for 398, listing stations like DAV, TINTI, LUWI, etc., with columns for Code, Station Name, Frequency, Power, and other technical details.

SJA 07 18:30:07.0, 7.2, 01S, 67.44W, h207km, 5km, ML3.6, MW3.5



SCB 07 18:30:09.8; 1.2, 21.01S; 67.45W, h182km, 11km, ML3.7/5, MW3.1, Error ellipse: s-maj=5.5km s-min=4.3km az=0.0

ISC 07 18:30:08.0; 1.7, 21.020S; 0.04; 67.48W; 0.04, h206km, 14km, n34, c130/49, Chile-Bolivia border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

IDC 07 18:46:29.0; 1.1, 33.92S; 179.13W, h0km, mb3.7/3, mbmp4.0/5, ML4.1/2, MS2.8/1, Error ellipse: s-maj=34.6km s-min=26.9km az=104.0

WEL 07 18:46:31.0; 0.9, 34.5; 7.178W; 1.3, h33km, M4.4/11, mB4.9/5, ML4.7/16, ML4.4/11, Mw(mB)4.2/5, Error ellipse: s-maj=18.2km s-min=5.5km az=114.4, confirmed

NEIC 07 18:46:58.5; 2.0, 35.5S; 0.1; 179.0E; 0.2, h155km, 10km, mb4.4/7, Error ellipse: s-maj=18.9km s-min=17.8km az=70.0

ISC 07 18:46:32.8; 0.9, 34.12S; 0.09; 178.8W; 0.1, h35km, n44, c156/55, mb4.3/6, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

SNET 07 19:16:27.1; 0.6, 63.90N; 90.63W, h92km, 5km, ML3.4 GCG 07 19:16:28.7; 1.1, 13.97N; 90.53W, h85km, 7km, MD3.6, ML3.5

ISC 07 19:16:30.8; 2.1, 13.87N; 0.10; 90.46W; 0.06, h84km, 14km, n16, c193/26, Near coast of Guatemala

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

DJA 07 19:47:23.6; 0.3, 1.2; 12.7E; 1.2, h62km, 18km, M3.8/12, mB5.2/2, mb4.3/3, MLV3.6/12, Mw(mB)4.5/2

IDC 07 19:47:25.2; 9.5, 0.59S; 127.13E, h121km, 90km, mb3.1/4, mbmp3.6/5, ML3.6/1, Error ellipse: s-maj=72.2km s-min=19.7km az=52.0

ISC 07 19:47:21.8; 1.4, 0.23S; 0.07; 127.32E; 0.07, h41km, n15, c249/17, mb3.7/3, Halmahera

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

IDC 07 19:55:02.2; 16.0, 3.53N; 122.88E, h401km, 202km, mb3.2/9, mbmp3.9/9, Error ellipse: s-maj=99.8km s-min=31.4km az=67.0

NEIC 07 19:55:16.5; 0.2, 3.5N; 0.1; 123.0E; 0.2, h517km, 12km, mb4.1/15, Error ellipse: s-maj=25.6km s-min=16.1km az=83.0

ISC 07 19:55:17.4; 0.7, 3.34N; 0.09; 122.9E; 0.1, h545km, n29, c134/29, mb3.8/16, Celebes Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

IDC 07 20:00:32.8; 8.3, 5.06S; 152.91E, h95km, 64km, mb3.3/6, mbmp3.7/7, ML1.7/1, MS3.6/1, Error ellipse: s-maj=63.8km s-min=31.1km az=87.0

ISC 07 20:00:27.0; 1.4, 5.05; 0.2; 153.2E; 0.2, h50km, n8, c190/8, mb3.6/6, New Ireland region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various seismic stations and their recorded events.

7d 21h

0.5nm,0.5s,baz=54,slow=17,SNR=9.3
BVAR Borovoye Array 89.66 323 P P 20 13 19.1 -0.5

IDC 07 20:07:28.3±2.5,7.49N-93.54E,h0km,mb3.4/4,
s-min=25.2km az=63.0, Nicobar Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include CMAR Chiang Mai Arr, H08S3 Diego Garcia H, H08S2 Diego Garcia H, H08S1 Diego Garcia H, MKAR Makanchi Array, ZALV Zalesovo Beam, WRA Warramunga Arr, ASAR Alice Springs, H04N2 Crozet Islands 65.09 211, H04N1 Crozet Islands 65.01 211, H04N3 Crozet Islands 65.11 211.

TEH 07 20:21:04.5,29.68N-51.12E,h8km,25km
OMAN 07 20:21:09.7±1.0,29.51N-51.40E,h10km,mb4.2/15,
mL2.2/1, Error ellipse: s-maj=9.2km s-min=6.3km az=149.0

ISC 07 20:21:05.8±0.8,29.72N-51.19E,h10km,n62,

#17770, Southern Iran

Large table listing station names and coordinates for the Southern Iran region, including KAZZ Kazeron-Fars-I, SHI Shiraz, KLNJ Kolanjeh, DSBU Dashti - Bushe, etc.

IDC 07 20:28:01.6±3.2,5.31S-147.04E,h251km,28km,mb3.1/3,
mbtmp3.8/5, Error ellipse: s-maj=42.9km s-min=31.3km
az=119.0

ISC 07 20:27:53.5±2.2,4.85±0.2,147.2E±0.4,h200km,n7,

#056/6,mb3.6/4,Bismarck Sea

Table listing station names and coordinates for the Bismarck Sea region, including PMG Port Moresby, WRA Warramunga Arr, ASAR Alice Springs, FITZ Fitzroy Crossi, MKAR Makanchi Array, GSPA South Pole Qui, TORD Torodi Ar. Bea.

TEH 07 20:54:31.3,32.62N-47.81E,h10km,999km
ISC 07 20:54:33.2±1.4,32.63N-47.78E,h24km,10km,ML2.5
ISC 07 20:54:30.8±1.4,32.55N-47.81E±0.05,h10km,n6,

#152/9,Iran-Iraq border region

Table listing station names and coordinates for the Iran-Iraq border region, including Code, Station Name, Az, Phase ID, Time, Res, ISC.

2019 JUN

Table listing station names and coordinates for the Kafar-mosalmal region, including IKFM Kafar-mosalmal, IBDR Badra, HSAM Samen, IPIR Pirpir, BHD Baghdad, IZEF Zefreh.

NEIC 07 20:59:44.7±1.6,31.61N±0.02±1.16±0.02,h7km,3km,
Error ellipse: s-maj=3.0km s-min=2.0km az=221.0
PAS 07 20:59:45.6±1.6,31.63N±0.01±1.16±0.02,h10km,8km,
ML3.1/118,ML2.8/26(NEIC), Error ellipse: s-maj=2.7km
s-min=1.6km az=81.0

ISC 07 20:59:45.2±0.3,31.61N±0.03±1.16±0.03,h25km,7km,
n43,±15/66,7C-9D,Baja California

Table listing station names and coordinates for the Baja California region, including Code, Station Name, Az, Phase ID, Time, Res, ISC.

VTX Valle De La Tr 0.29 138 P Pb 20 59 51.5 -0.6

VTX Valle De La Tr 0.29 138 P Pb 20 59 55.0 -1.8

VTX Valle De La Tr 0.29 138 P Pb 20 59 55.0 -0.6

VTX Valle De La Tr 0.29 138 P Pb 20 59 55.0 -1.2

VTX Valle De La Tr 0.29 138 P Pb 20 59 55.0 -2.0

VTX Valle De La Tr 0.29 138 P Pb 20 59 59.4

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VTX Valle De La Tr 0.29 138 P Pb 20 59 59.4

VTX Valle De La Tr 0.29 138 P Pb 20 59 59.4

VTX Valle De La Tr 0.29 138 P Pb 20 59 59.4

Table listing station names and coordinates for the Makanchi Array region, including MKAR Makanchi Array, KURBB Kurchatov Arr.

IDC 07 21:32:39.8±3.7,13.23N±125.57E,h0km,mb3.3/4,
mbtmp3.4/5, Error ellipse: s-maj=308.8km
s-min=23.4km az=65.0, Philippine Islands region

Table listing station names and coordinates for the Philippine Islands region, including Code, Station Name, Az, Phase ID, Time, Res, ISC.

WRA Warramunga Arr 34.07 165 P P 21 39 25.5 -0.7

ASAR Alice Springs 37.56 167 P P 21 39 56.6 +0.5

H11S3 WAKE ISLAND Hy 39.84 77 T T 22 24 02.8

H11S1 WAKE ISLAND Hy 39.85 77 T T 22 24 03.0

H11S2 WAKE ISLAND Hy 39.85 77 T T 22 23 57.9

H11N1 WAKE ISLAND Hy 40.07 75 T T 22 24 09.6

H11N2 WAKE ISLAND Hy 40.08 75 T T 22 24 18.5

H11N3 WAKE ISLAND Hy 40.09 75 T T 22 24 10.8

MKAR Makanchi Array 49.28 322 P P 21 41 30.6 +0.1

KURBB Kurchatov Arra 53.27 324 P P 21 42 00.0 -0.3

AZER 07 21:42:00.2,38.39N-46.70E,h6km,m4.2
NSSP 07 21:42:01.5,38.43N-46.65E,h10km,Msd.0

TEH 07 21:42:01.8,38.40N-46.68E,h6km,35km
IDC 07 21:42:02.0±0.8,38.41N±46.70E,h0km,mb3.9/19,
mbtmp3.9/29,ML2.1/5,MS2.7/5, Error ellipse:
s-maj=14.5km s-min=8.7km az=19.0

MOS 07 21:42:03.3±1.7,38.48N±46.80E,h10km,mb4.2/16, Error
ellipse: s-maj=7.1km s-min=4.8km az=115.1

THR 07 21:42:04.2±0.0,38.36N±46.57E,h10km,11km,ML4.2
ISC 07 21:42:02.7±1.0,38.45N±0.02±46.71E±0.02,h4km,7km,
n232,±18/89/277,mb4.1/37,MS2.8/3,20C-19D,
Iran-Azerbaijan border region

Table listing station names and coordinates for the Iran-Azerbaijan border region, including Code, Station Name, Az, Phase ID, Time, Res, ISC.

IHRH Heris 0.29 116 Op P Pb 21 42 07.8 -0.6

ITBZ Tabriz 0.49 245 P Pb 21 42 10.4 -1.8

ITBZ Tabriz 0.49 245 P Pb 21 42 16.9 -0.7

ITBZ Tabriz 0.49 245 P Pb 21 42 16.9 -0.8

ITBZ Tabriz 0.49 245 P Pb 21 42 27.6 -1.2

ITBZ Tabriz 0.49 245 P Pb 21 42 28.1 +0.2

ITBZ Tabriz 0.49 245 P Pb 21 42 29.7 -0.6

ITBZ Tabriz 0.49 245 P Pb 21 42 17.6 -2.0

ITBZ Tabriz 0.49 245 P Pb 21 42 19.3 -1.8

ITBZ Tabriz 0.49 245 P Pb 21 42 21.1 -0.7

ITBZ Tabriz 0.49 245 P Pb 21 42 28.0 +3.0

ITBZ Tabriz 0.49 245 P Pb 21 42 43.0 +2.4

ITBZ Tabriz 0.49 245 P Pb 21 42 24.3 -0.3

ITBZ Tabriz 0.49 245 P Pb 21 42 42.1 +1.0

ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

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ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

ITBZ Tabriz 0.49 245 P Pb 21 42 25.0 -1.0

Table with columns: Call sign, Country, Frequency, Mode, Power, and other technical details. Includes stations like QZXX, Khinaliq, Lahijan-Gila, etc.

Table with columns: Call sign, Country, Frequency, Mode, Power, and other technical details. Includes stations like Baraj Valea Uz, Muntele Rosu, etc.

Table with columns: Call sign, Country, Frequency, Mode, Power, and other technical details. Includes stations like ZALV, ZALV ZNO, etc.

ATH 07:21:44:32.1, 37:65N-20:68E, h15km, ML2.5/18, Manual Solution by A.Papageorgiou First location: 2019/06/07

ISC 07:21:46:49.2±5.2, 26:99N-93:20E, h0km, mb3.7/2, mbmp3.7/4, ML3.5/1, Error ellipse: s-maj=107.0km

DMN 07:21:46:52.0±0.2, 26:71N-92:53E, h188km, Error ellipse: s-maj=0.0km s-min=0.0km az=0

ISC 07:21:46:50.7±1.4, 27:11N-01:92:66E±0:10, h35km, n18, ±2500/23, Eastern Xingzhi-India border region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, ISC. Lists various stations like LTHX, LTHK, ORTH, etc.





7d 21h

2019 JUN

Table with multiple columns containing station identifiers (e.g., HARP, I23K, I23K), names (e.g., Minto, Yukon-K, comp=E,194nm,1.1s), coordinates (e.g., 1.90 353), and values (e.g., Sb, Sg, 21 56 46.3, 0.0). The table is organized into several vertical sections.





8d 0h

Table with columns: Station Name, Time, Res, and various codes. Includes stations like Nilore, Hongshan, Gaotai, etc.

Table with columns: Station Name, Time, Res, and various codes. Includes stations like Your Creek, Eielson Array, M29M, etc.

Table with columns: Station Name, Time, Res, and various codes. Includes stations like Alea Permanent, Pohakuola, etc.

Table with columns: MNGR, MINGE, A, 2.69, 28, P, Sb, 00 19 55.1 -0.7, SBZ, Shahbuz, 1.04, 8, P, Pg, 00 34 22.3 -2.0

Table with columns: SBZ, Shahbuz, 1.04, 8, P, Pg, 00 34 22.3 -2.0, MNGR, MINGE, A, 2.69, 28, P, Sb, 00 19 55.1 -0.7

Table with columns: FINES, FINES, Array B, 26.03, 339, P, P, 00 39 37.9 +0.7, KURBB, Kurchatov Arra, 26.40, 52, P, P, 00 39 40.8 +0.1

JMA 08 00:23:32.1-0.2, 33°N, 127°13'E, h334km, MV3.4/27, FAR S OFF TOKAI DISTRICT

TEH 08 00:54:44.6, 38°40'N, 45°39'E, h6km, 70km, AZER 08 00:54:47.3, 38°47'N, 45°33'E, h7km, ml2.6

Table with columns: GCG 08 00:40:05.6, 0.5, 13°38'N, 90°50'W, h23km, 7km, MD3.9, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.20, 319, eP, Pn, 00 24 18.1 +2.4

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.20, 319, eP, Pn, 00 24 18.1 +2.4

TEH 08 00:54:44.6, 38°40'N, 45°39'E, h6km, 70km, AZER 08 00:54:47.3, 38°47'N, 45°33'E, h7km, ml2.6

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, T003, TONANKAI O.B.S, 1.24, 83, eP, Pn, 00 24 18.1 +1.9

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

ISC 08 00:54:47.6, 1.1, 38°43'N, 0°03.45'E, 0.03, h8km, 10km, n27, c1929/45, Iran-Armenia-Azerbaijan border region

8d 2h

Table with columns: IML, Ismayilli, 3.24 40 P Pn, 01 11 51.3 +1.0

2019 JUN

ISC 08 01:48:10.4:1.2, 40.96N, 0.02:9.29W:0.04, h17km, 9km, #41, #1938/91, 1C, Portugal

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

NSSP 08 01:12:22.4, 38.45N, 45.48E, h10km, Ms3.3
AZER 08 01:12:22.0, 38.40N, 45.22E, h10km, ml2.9

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

RSNC 08 01:38:45.7:0.0, 6.1N, 1.74W, h66km, 2km, M2.5, mb3.6, ML2.2, Northern Colombia

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

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Table with columns: PAB, El Cabril, 4.16 133 Pn, 01 49 55.7 +2.8

AZER 08 01:56:49.5, 38.40N, 45.30E, h10km, ml2.5
TEH 08 01:56:50.3, 38.38N, 45.42E, h8km, 58km

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

DJA 08 01:56:57.6:0.8, 3.3S, 4.12E, h21km, 9km, M3.8/8, MLv3.8/8

IDC 08 01:57:05.9:4.6, 2.96S, 128.13E, h106km, 42km, mb3.3/4, mbmp3.8/6, MS3.1/2, Error ellipse: s-maj=89.1km

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

AEIC 08 02:23:48.3:1.5, 5.416N, 0.06:163.67W:0.09, h45km, 9km, Error ellipse: s-maj=9.7km s-min=5.5km az=138.0

NEIC 08 02:23:47.8:1.3, 5.408N, 0.05:163.56W:0.08, h35km, 2km, ML2.5/12, ML2.4(AEIC), Error ellipse: s-maj=9.5km

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

IDC 08 02:59:36.9:1.0, 9.02S, 158.78E, h0km, mb3.7/6, mbmp3.7/6, Error ellipse: s-maj=33.5km s-min=17.6km

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res

MDD 08 01:48:11.0:0.6, 41.00N, 9.25W, h2km, 3km, mb\_Lg2.6/13, Error ellipse: s-maj=4.5km s-min=2.2km az=83.0

INMG 08 01:48:12.5:1.7, 40.96N, 9.34W, h16km, 3km, ML2.0, Error ellipse: s-maj=5.3km s-min=1.8km az=95.0

Table with 4 columns: Code, Station Name, Az, Op. Includes stations like WAKE ISLAND Hy 28.55, WAKE ISLAND Hy 29.76, WAKE ISLAND Hy 29.77, etc.

RSNC 08:03:07.36:3.0,0.8,N:1.7,5W, h7km,2km, M3.1,mb4.2, ML2.8, Northern Colombia

Main table for RSNC 08:03:07.36:3.0,0.8,N:1.7,5W. Columns: Code, Station Name, Az, Op, Phase ID, Time Res, ISC. Lists numerous stations like San Jos de Ur, Zaragoza, Cauca, etc.

IDC 08:03:08.14.4.1.6. 1.45N, 126.21E, h0km, mb3.7/4, mtbpm3.8/5, ML3.5/1, MS2.3/1, Error ellipse: s-maj=126.4km s-min=19.6km az=68.0

NEIC 08:03:17.0.1.7. 1.57N, 0.06E, 126.46E, 0.07, h10km, 1km, mb4.5/12, Error ellipse: s-maj=11.2km s-min=9.6km az=263.0

DJA 08:03:08.18.3.0.3.2 N, 3.2 W, 12.6E, h10km, M3.9/8, MB4.6/1, mb3.9/1, MLV3.9/8, MW(m)B3.9/1

ISC 08:03:08.20.8.0.7, 1.57N, 0.06E, 126.47E, 0.07, h47km, n31, 0163/30, mb4.2/10, Northern Molucca Sea

Main table for ISC 08:03:08.20.8.0.7, 1.57N, 0.06E, 126.47E. Columns: Code, Station Name, Az, Op, Phase ID, Time Res, ISC. Lists stations like TONI Ternate, SGGI Sangihe, KMSI Cibinong, etc.

NIED 08:03:45:58.6.19. 139.97E, h52km, MW3.8, Moment Tensor Solution, s3 Moment tensor: Scale 10^14Nm; Mn:2.37, Mw:2.43, Mx:0.06, My:4.4, Mz:1.40, Mv:3.31

2019 JUN h7km, 16km, ML3.7/14 Error ellipse: s-maj=11.8km s-min=8.7km az=122.0 JMA 08:03:45:58.6.0.1.36:2N,0.3:140.0E:0.4, h52km, MD4.0/37, MV4.0/37, SW IBARAKI PREF JMA Felt III J1 at SW IBARAKI PREF. IDC 08:03:45:58.7.2.2.36:08N:139.76E, h62km, 18km, mb3.4/15, mtbpm3.7/15, MS3.1/2, Error ellipse: s-maj=20.8km s-min=17.1km az=73.0 ISC 08:03:45:58.0.0.7.36:16N:0.04:140.00E:0.05, h56km, 6km, 0163/51, mb3.7/14, 9D, Near east coast of eastern Honshu

Main table for ISC 08:03:45:58.0.0.7, 36:16N:0.04:140.00E. Columns: Code, Station Name, Az, Op, Phase ID, Time Res, ISC. Lists stations like Yasato, Hitachinakayama, Ashikaga, etc.

IDC 08:03:52:57.0.1.2. 24.48S, 178.49E, h570km, 12km, mb3.6/14, mtbpm4.5/16, Error ellipse: s-maj=16.6km s-min=12.9km az=124.0 NOU 08:03:52:58.3.24.7S:178.65E, h600km, mb4.6/27, South of Fiji Islands NEIC 08:03:52:58.1.2.5.24.6S:0.1:178.5E:0.1, h576km, 7km, mb4.5/52, Error ellipse: s-maj=21.4km s-min=17.4km az=132.0 ISC 08:03:52:58.9.0.4.24.55S:0.06:178.50E:0.06, h600km, n161, 0163/156, mb4.4/43, 1C-3D, South of Fiji Islands

Main table for ISC 08:03:52:58.9.0.4, 24.55S:0.06:178.50E. Columns: Code, Station Name, Az, Op, Phase ID, Time Res, ISC. Lists stations like Green Lake, Tubou, Lakemba, etc.

Main table for ISC 08:03:52:58.9.0.4, 24.55S:0.06:178.50E. Columns: Code, Station Name, Az, Op, Phase ID, Time Res, ISC. Lists stations like Green Lake, Tubou, Lakemba, etc.



8d 5h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like VNA1 Neumayer-Stat, NVAR Mina Array Bea, N15K Kwethluk River, etc.

IDC 08 04:29:39.20.0.7, 17.10N:147.30E, h0km, mb4.0/13, mbmp4.0/14, ML4.7/1, MS3.0/2, Error ellipse: s-maj=24.6km s-min=15.5km az=97.0

NEIC 08 04:29:40.4.2.2, 17.0N:0.1:147.7E:0.1, h10km, 1km, mb4.4/7, Error ellipse: s-maj=24.8km s-min=16.8km az=128.0

ISC 08 04:29:44.9.0.7, 17.06N:0.09:147.3E:0.1, h41km, n31, 0584/31, mb4.2/17, Mariana Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like GUMO Guam, PATS Pohnppei, JOW Kungami, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like KURBB Kurchatov Arra, ILAR GEMMA, BMAR Burnt Mountain, etc.

IDC 08 04:58:06.6i.0.7, 9.93S:78.80W, h0km, mb3.9/8, mbmp3.9/10, ML4.0/2, MS3.3/4, Error ellipse: s-maj=38.1km s-min=16.8km az=58.0

NEIC 08 04:58:15.0i.1.9, 10.01S:0.08:78.7W:0.1, h56km, 5km, mb4.2/23, Error ellipse: s-maj=18.9km s-min=10.3km az=75.0

RSNC 08 04:58:18.7i.1.0, 10.5S:7.7W:1.1, h103km, 17km, M4.5, m85.2, mb4.8, ML4.6, MW(m)B4.5

IAO 08 04:58:25.3i.1.1, 9.62S:77.98W, h117km, 7km, mb4.3, VAC 08 04:58:13.9i.0.6, 10.01S:0.05:78.7W:1.0, h50km, n89, 0190/85, mb4.3/14, Near coast of Peru

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like NNA Nana, ATAH Athalupa, CZSB Cruzeiro do Sul, etc.

IDC 08 05:46:33.0i.1.3, 16.22N:120.18E, h112km, 14km, s-maj=21.4km s-min=11.8km az=72.0

ISC 08 05:48:15.2i.25.4.0.6, 16.36N:0.00:119.9E:0.1, h35km, n162, 0848/152, mb4.4/31, MS3.1/7, Luzon

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like TGY Tagaytay City, TWG Pinlang, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like WILB Vilhena, MACA Manacapuru-AM, etc.

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Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like PV02 Paradox Valley, PV13 Radium Hill, ECSD EROS Data Cent, etc.

NOU 08 05:27:20.2, 16.12S:167.78E, h20km, mb4.1/11, Vanuatu Islands, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like VLAKA Lakatoro, YATNC Mamie plateau, etc.

NEIC 08 05:46:22.8i.0.9, 16.38N:0.05:119.9E:0.1, h10km, 1km, m54/26, Error ellipse: s-maj=21.4km s-min=3.3km az=245.0

IDC 08 05:46:33.0i.1.3, 16.22N:120.18E, h112km, 14km, s-maj=21.4km s-min=11.8km az=72.0

ISC 08 05:48:15.2i.25.4.0.6, 16.36N:0.00:119.9E:0.1, h35km, n162, 0848/152, mb4.4/31, MS3.1/7, Luzon

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like TGY Tagaytay City, TWG Pinlang, SSSL Suanglung, etc.





Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists various stations and their coordinates and phases.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists various stations and their coordinates and phases.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists various stations and their coordinates and phases.













8d 10h

BMRM	Bremner River	81.69	25	I	Amb	I	Amb	10 32 10.3
BMRM	Bremner River	81.69	25	P	P	P	P	10 32 06.5 +0.7
E20K	Nigu River	81.75	17	P	P	P	P	10 32 07.2 +1.2
H22K	Ishaitlita Cre	81.76	20	P	P	P	P	10 32 07.0 +1.0
NEA2	Nemana	81.82	21	P	P	P	P	10 32 05.9 -0.4
A19K	Wainwright	81.82	14	P	P	P	P	10 32 07.2 +1.1
F21K	Alatina River	81.89	18	P	P	P	P	10 32 07.3 +0.6
D20K	Etiyuk River	81.93	16	I	Amb	I	Amb	10 32 08.8
D20K	Etiyuk River	81.93	16	P	P	P	P	10 32 07.6 +0.7
N25K	Chitina, Valde	82.00	25	I	Amb	I	Amb	10 32 26.4
N25K	Chitina, Valde	82.00	25	P	P	P	P	10 32 08.4 +1.0
I23K	Minto, Yukon-K	82.02	21	P	P	P	P	10 32 07.4 +0.1
HARP	HAARP	82.16	24	P	P	P	P	10 32 08.9 +0.8
WAX	Waxell Ridge	82.20	26	I	Amb	I	Amb	10 32 10.8
CRQC	Cirque	82.22	26	I	Amb	I	Amb	10 32 11.4
CRQC	Cirque	82.24	26	P	P	P	P	10 32 09.5 +0.8
PAX	Paxson	82.32	23	P	P	P	P	10 32 09.4 +0.3
G22K	Bettles	82.33	19	P	P	P	P	10 32 09.6 +0.7
HPK3	Yukon River	82.34	20	P	P	P	P	10 32 09.9 +0.9
H23K	COLA	82.41	21	P	P	P	P	10 32 08.9 -0.4
COLA	COLA	82.41	21	I	Amb	I	Amb	10 32 11.7
COLA	COLA	82.41	21	P	P	P	P	10 32 09.7 +0.4
COLA	COLA	82.41	21	P	P	P	P	10 32 09.0 -0.4
COLA	COLA	82.41	21	P	P	P	P	10 32 10.1 +0.8
F22K	John River	82.47	18	P	P	P	P	10 32 10.8 +1.1
MESA	MESA	82.48	27	I	Amb	I	Amb	10 32 14.0
MESA	MESA	82.48	27	P	P	P	P	10 32 11.3 +1.2
HDA	Harding Lake	82.49	22	P	P	P	P	10 32 09.5 -0.3
E21K	Killik River	82.50	17	P	P	P	P	10 32 10.7 +0.9
MCARA	McCarthy VSAT	82.56	25	I	Amb	I	Amb	10 32 13.6
MCARA	McCarthy VSAT	82.56	25	P	P	P	P	10 32 11.2 +1.0
K24K	Donnelly Dome	82.62	23	P	P	P	P	10 32 10.9 +0.3
B20K	Meade River	82.65	15	P	P	P	P	10 32 11.3 +0.8
G23K	Bananza Creek	82.68	19	P	P	P	P	10 32 11.8 +0.9
POKR	Poker Plat Res	82.69	21	P	P	P	P	10 32 10.2 -0.6
IL31	ILAR	82.70	22	P	P	P	P	10 32 10.6 -0.3
ILAR	Eielson Array	82.70	22	P	P	P	P	10 32 10.5 -0.5
ILAR	Eielson Array	82.70	22	P	P	P	P	10 32 09.9 -1.0
ILAR	ILAR	82.70	22	P	P	P	P	10 32 28.9 -0.7
ILAR	ILAR	82.70	22	P	P	P	P	10 32 10.5 -0.5
MK31	Makanchi Array	82.71	31	P	P	P	P	10 32 11.1 +0.3
MKAR	Makanchi Array	82.71	31	P	P	P	P	10 32 11.2 -0.2
MKAR	Makanchi Array	82.71	31	P	P	P	P	10 32 11.1 -0.3
MKAR	Makanchi Array	82.71	31	P	P	P	P	10 32 11.1 -0.3
C21K	Knifeblade Rid	82.73	16	P	P	P	P	10 32 12.1 +1.1
H24K	Noodor Dome	82.92	20	P	P	P	P	10 32 12.8 +0.7
COLD	Coldfoot	82.92	19	P	P	P	P	10 32 13.0 +1.0
MAK2	Makanchi	82.92	31	P	P	P	P	10 32 12.1 -0.4
MAK2	Makanchi	82.92	31	P	P	P	P	10 32 12.1 -0.4
RIDG	Independent Ri	82.95	23	I	Amb	I	Amb	10 32 16.3
RIDG	Independent Ri	82.95	23	P	P	P	P	10 32 12.6 +0.4
E22K	Anaktuvuk Pass	82.95	18	P	P	P	P	10 32 13.0 +0.8
MENT	Mentasti	83.00	24	P	P	P	P	10 32 14.8 +2.2
M26K	Nabesna, AK	83.04	25	P	P	P	P	10 32 13.4 +0.6
B21K	Ikpiyuk River	83.07	16	I	Amb	I	Amb	10 32 14.6
B21K	Ikpiyuk River	83.07	16	P	P	P	P	10 32 13.5 +0.8
CTGK	Chitna Glacier	83.10	26	P	P	P	P	10 32 14.1 +0.8
CTGM	Chitna Glacier	83.10	26	I	Amb	I	Amb	10 32 15.4
D22K	Aiyikyak River	83.15	17	I	Amb	I	Amb	10 32 15.6
D22K	Aiyikyak River	83.15	17	P	P	P	P	10 32 14.5 +1.3
J25K	Salcha River,	83.18	22	I	Amb	I	Amb	10 32 16.6
J25K	Salcha River,	83.18	22	P	P	P	P	10 32 13.7 +0.2
L26K	Log Cabin Wild	83.19	24	P	P	P	P	10 32 14.5 +0.9
DOT	Dot Lake	83.21	23	I	Amb	I	Amb	10 32 38.0
PCA	Pinnaacle	83.21	27	I	Amb	I	Amb	10 32 15.8
PINM	Pinnaacle	83.21	27	P	P	P	P	10 32 14.8 +1.1
SCRK	Sand Creek	83.40	23	P	P	P	P	10 32 15.1 +0.4
PNL	Peninsula	83.42	28	P	P	P	P	10 32 16.8 +2.0
PNL	Peninsula	83.42	28	P	P	P	P	10 32 15.7 +0.9
Z3A0	Zalesovo Array	83.44	32	P	P	P	P	10 32 13.7 -1.3
Z4A0	Zalesovo Array	83.44	32	I	Amb	I	Amb	10 32 14.6
ZALV	Zalesovo Beam	83.44	32	P	P	P	P	10 32 13.6 -1.3
M27K	Edge Creek, AK	83.49	25	I	Amb	I	Amb	10 32 45.2
M27K	Edge Creek, AK	83.49	25	P	P	P	P	10 32 16.6 +1.4
G24K	Hadweenzic Riv	83.52	20	P	P	P	P	10 32 15.9 +0.8
O28K	Mount Upton	83.52	27	P	P	P	P	10 32 16.8 +1.2
E32M	Chandler	83.58	18	I	Amb	I	Amb	10 32 17.6
E32K	Chandler	83.58	18	P	P	P	P	10 32 16.5 +1.0
PRP	Porcupine Dome	83.58	21	P	P	P	P	10 32 16.7 +1.0
SHLS	Shalkode	83.65	31	eP	P	P	P	10 32 14.4 -2.0
SHLS	Shalkode	83.65	31	eP	P	P	P	10 32 14.4 -2.0
A21K	Barrow	83.66	14	P	P	P	P	10 32 16.1 +0.4
QSPA	South Pole Qui	83.76	18	P	P	P	P	10 32 16.4 -0.2
D23K	Nanusuk River	83.78	17	P	P	P	P	10 32 17.9 +1.5
J26L	Joseph Creek	83.81	23	P	P	P	P	10 32 17.4 +0.7
L27K	Beaver Creek	83.83	24	P	P	P	P	10 32 18.0 +1.2
F24K	Squaw Lake	83.83	19	I	Amb	I	Amb	10 32 19.1
F24K	Squaw Lake	83.83	19	P	P	P	P	10 32 18.0 +1.3

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YUK3	Moose Creek	83.83	26	P	P	P	P	10 32 18.1 +1.0
B22K	Teshekpuk Lake	83.84	16	I	Amb	I	Amb	10 32 18.2
B22K	Teshekpuk Lake	83.84	16	P	P	P	P	10 32 17.2 +0.6
A22K	Sinclair Lake	83.86	15	P	P	P	P	10 32 17.3 +0.6
H25L	Birch Creek	83.86	20	P	P	P	P	10 32 17.5 +0.7
TOLK	Toolik Lake Re	83.92	18	I	Amb	I	Amb	10 32 19.1
TOLK	Toolik Lake Re	83.92	18	P	P	P	P	10 32 18.1 +0.9
YUK8	Steele Glacier	83.93	26	P	P	P	P	10 32 18.8 +1.2
BVCY	Beaver Creek	83.94	25	P	P	P	P	10 32 18.7 +1.3
E24K	Your Creek	83.94	18	P	P	P	P	10 32 17.9 +0.6
UZB	Uzynbulak	83.96	31	eP	P	P	P	10 32 17.5 -0.6
UZB	Uzynbulak	83.96	31	eP	P	P	P	10 32 17.6 -0.6
G25K	Bearman Lake	84.02	20	P	P	P	P	10 32 18.6 +1.0
O29M	Mount Kennedy	84.06	27	P	P	P	P	10 32 19.1 +1.0
K27K	Chickadee	84.16	23	P	P	P	P	10 32 19.7 +1.3
P29M	Windy Craggy	84.18	28	P	P	P	P	10 32 19.6 +1.0
PRZ	Przheval'sk	84.25	31	P	P	P	P	10 32 20.9 +1.3
PRZ	Przheval'sk	84.25	31	P	P	P	P	10 32 20.9 +1.3
KPK3	Kokpek	84.28	31	eP	P	P	P	10 32 19.0 -0.6
KPK3	Kokpek	84.28	31	eP	P	P	P	10 32 19.1 -0.6
SS1K	Pelican	84.28	30	P	P	P	P	10 32 20.0 +0.9
C23K	Ikiliik River	84.31	16	P	P	P	P	10 32 19.9 +0.9
I26K	Coal Creek Min	84.35	22	P	P	P	P	10 32 19.6 +0.3
SATY	Saty	84.38	31	eP	P	P	P	10 32 19.7 -0.5
SATY	Saty	84.38	31	eP	P	P	P	10 32 19.7 -0.5
SATY	Saty	84.38	31	eP	P	P	P	10 32 19.7 -0.5
SATY	Saty	84.38	31	eP	P	P	P	10 32 19.7 -0.5
ZHN	Zhinshike	84.38	31	eP	P	P	P	10 32 19.6 -0.6
ZHN	Zhinshike	84.38	31	eP	P	P	P	10 32 19.6 -0.6
YUK6	Outpost Mounta	84.41	27	P	P	P	P	10 32 21.2 +1.2
SIT	Sitka	84.42	31	P	P	P	P	10 32 20.9 +1.1
D24K	Happy Valley	84.44	17	P	P	P	P	10 32 20.8 +1.1
YUK4	Talbot Arm	84.44	26	P	P	P	P	10 32 22.0 +1.8
TARG	Taragay, Kyrgy	84.50	31	I	Amb	I	Amb	10 32 33.3
TARG	Taragay, Kyrgy	84.50	31	P	P	P	P	10 32 21.8 +0.6
TARG	Taragay, Kyrgy	84.50	31	P	P	P	P	10 32 21.8 +0.6
F25K	Christian River	84.60	19	P	P	P	P	10 32 21.8 +1.2
R31K	City Hall, Gus	84.69	30	P	P	P	P	10 32 22.2 +1.1
P30M	Million Dollar	84.73	28	P	P	P	P	10 32 22.6 +1.2
HYT	Haines Junctio	84.75	27	P	P	P	P	10 32 22.4 +0.8
HYT	Haines Junctio	84.75	27	I	Amb	I	Amb	10 32 23.6
HYT	Haines Junctio	84.75	27	P	P	P	P	10 32 23.0 +1.3
PLBC	Pleasant Camp	84.76	29	P	P	P	P	10 32 22.6 +1.1
C24K	Frank Bluff	84.79	17	P	P	P	P	10 32 22.8 +1.3
TDK	Taldyqorghan	84.84	31	eP	P	P	P	10 32 21.7 -0.6
TDK	Taldyqorghan	84.84	31	eP	P	P	P	10 32 21.7 -0.6
TDK	Taldyqorghan	84.84	31	eP	P	P	P	10 32 21.8 -0.6
BMAR	Burnt Mountain	84.87	20	P	P	P	P	10 32 22.6 +0.6
G26K	Porcupine Riv	84.91	20	P	P	P	P	10 32 23.5 +1.4
S32K	Kilisnoo	84.94	31	P	P	P	P	10 32 23.8 +1.4
M29M	Somme Creek	84.97	25	P	P	P	P	10 32 23.9 +1.2
KDJ	Kajisay	85.05	31	P	P	P	P	10 32 23.7 +0.1





TBI	comp=E,8um,35.8s	eLQ	LQ	11 15 28.8					
TBI	comp=E,5um,32.2s	eLR	LR	11 17 58.2					
TBI	comp=E,1um,31.8s	eLR	LR	11 18 01.3					
BRDH	Bariahdala	62.40 298	LR	11 27 26.5					
GTA	comp=E,1.75nm,19.2s	baz=134,slow=37	P	10 59 47.9 +1.7					
GTA	Gaotai	62.83 318	eP	11 08 19.8 +4.0					
GTA	comp=E,10.0nm,1.5s		S						
GTA	comp=E,260nm,20.7s		pmax						
GTA	comp=E,330nm,20.4s		LR						
GTA	comp=E,430nm,18.5s		LR						
MA2	Magadan	63.27 1	P	10 59 47.8 -0.8					
MA2	Magadan	63.27 1	LR	11 27 05.3					
MA2	Magadan	63.27 1	P	10 59 51.2 +2.6					
MA2	Magadan	63.27 1	P	10 59 47.8 -0.8					
MA2	Magadan	63.27 1	P	10 59 50.5 +1.9					
MA2	Magadan	63.27 1	P	10 59 53.8 0.0					
ULN	Ulaanbaatar	63.55 329	pP	10 59 49.4 -1.5					
ULN	Ulaanbaatar	63.55 329	iP	10 59 50.7 -0.2					
ULN	comp=Z,29nm,1.9s		pmax						
SOMM	Songino Array	63.87 329	P	10 59 52.1 -0.9					
SOMM	Songino Array	63.87 329	P	10 59 54.1 +1.2					
SOMM	comp=Z,7.0nm,0.8s	baz=144,slow=6.2,SNR=23	LR	11 27 24.8					
SOMM	comp=Z,445nm,21.1s	baz=148,slow=36	LR						
SOMM	comp=Z,7.0nm,0.8s								
GOMU	GeErMu	64.78 313	P	11 00 01.0 +1.5					
GOMU	GOMU		pP	11 00 07.5 +2.7					
GOMU	GOMU		sP	11 00 12.8 +1.0					
GOMU	GOMU		S	11 00 41.8 +1.0					
GOMU	comp=Z,8.0nm,0.8s		pmax						
GOMU	comp=Z,350nm,15.1s		LR						
GOMU	comp=Z,470nm,19.4s		LR						
GOMU	comp=Z,800nm,17.7s		LR						
SEY	Seymchan	66.67 1	LR	11 28 54.5					
SEY	Seymchan	66.67 1	LR	11 00 11.3 +0.7					
SEY	Seymchan	66.67 1	ceP						
SEY	comp=Z,15nm,1.0s		pmax						
ZAK	Zakamensk	67.07 330	eP	11 00 13.7 +0.1					
ZAK	Zakamensk	67.07 330	eP						
YAK	Yakutsk	67.48 350	LR	11 28 42.4					
YAK	Yakutsk	67.48 350	LR	11 00 16.0 +0.2					
YAK	Yakutsk	67.48 350	LR	11 00 25.4 +4.4					
YAK	Yakutsk	67.48 350	ePP	11 02 42.3					
YAK	Yakutsk	67.48 350	e	11 02 44.2					
YAK	Yakutsk	67.48 350	eS	11 09 10.2 -1.6					
YAK	Yakutsk	67.48 350	e	11 10 11.2					
YAK	Yakutsk	67.48 350	eSS	11 13 29.0 -3.4					
YAK	comp=Z,20nm,1.1s		pmax						
YAK	comp=N,5.0nm,1.2s		pmax						
YAK	comp=E,3.0nm,1.2s		pmax						
YAK	comp=Z,103nm,5.1s		pmax						
YAK	comp=N,34nm,4.7s		pmax						
YAK	comp=E,67nm,4.8s		smax						
YAK	comp=N,58nm,3.7s		smax						
YAK	comp=E,18nm,3.0s		MLR						
YAK	comp=Z,381nm,20.0s		MLR						
YAK	comp=E,170nm,23.0s		MLR						
YAK	comp=N,182nm,23.0s		MLR						
CANV	Casey	67.97 196	P	11 00 17.8 -1.0					
UNSY	Unalaska Valle	68.18 26	P	11 00 20.7 +0.4					
UNSY	Unalaska Valle	68.18 26	P						
SPIA	Saint Paul Isl	68.97 22	P	11 00 25.9 +0.7					
SPIA	Saint Paul Isl	68.97 22	P						
MOY	Mondy	69.00 330	eP	11 00 27.0 +1.3					
MOY	Mondy	69.00 330	eP						
PALK	Pallekele	69.62 279	LR	11 31 22.3					
PALK	Pallekele	69.62 279	LR						
TAOE	Nuku Hiva Isla	69.93 98	eLR	11 21 51.8					
TAOE	Nuku Hiva Isla	69.93 98	eLR						
SDPT	Sand Point	71.85 27	P	11 00 42.6 -0.2					
CHNA	Chernabura Isl	71.96 28	P	11 00 47.9 +4.4					
CHNA	Chernabura Isl	71.96 28	P	11 00 43.5 0.0					
BILL	Bilbino	72.71 6	P	11 00 47.0 -0.8					
BILL	Bilbino	72.71 6	P	11 01 15.5					
BILL	Bilbino	72.71 6	ceP	11 00 49.1 +1.3					
BILL	Bilbino	72.71 6	ceP						
S14K	Fog Glacier	72.82 27	P	11 00 49.0 +0.2					
S14K	Fog Glacier	72.82 27	P						
WMQ	Urumpi	72.91 318	eP	11 00 50.6 +1.0					
WMQ	Urumpi	72.91 318	eP						
HYB	Hyderabad	73.16 289	eP	11 00 50.1 -1.4					
GAMB	Gambell	73.41 17	P	11 00 52.6 +0.7					
M13K	Dall Lake	73.81 22	P	11 00 54.5 +0.2					
M13K	Dall Lake	73.81 22	P						
VNDA	Vanda	73.87 177	P	11 00 54.5 0.0					
VNDA	Vanda	73.87 177	P	11 00 54.4 -0.2					
VNDA	Vanda	73.87 177	P	11 29 31.8					
VNDA	Vanda	73.87 177	P						
VNDA	Vanda	73.87 177	P	11 00 54.5 0.0					
VNDA	Vanda	73.87 177	P						
O14K	Tiguykuiwet M	73.89 24	P	11 00 55.4 +0.6					
N14K	Kuskokwak Cree	74.14 23	P	11 00 56.6 +0.3					
N14K	Kuskokwak Cree	74.14 23	P						
K13K	Kusilvak Mount	74.34 21	P	11 00 57.7 +0.3					
K13K	Kusilvak Mount	74.34 21	P						
CHIR	Chirikof Islan	74.39 29	P	11 00 58.2 +0.3					
O15K	Ungalikthiuk R	74.43 24	P	11 00 56.7 -1.3					
O15K	Ungalikthiuk R	74.43 24	P	11 00 58.6 +0.5					
R16K	Pilot Point	74.45 26	P	11 00 58.8 +0.7					
R16K	Pilot Point	74.45 26	P						
SBA	Scott Base	74.47 176	P	11 00 58.2 +0.2					
SBA	Scott Base	74.47 176	P	11 01 26.1					
SBA	Scott Base	74.47 176	P	11 00 58.3 +0.2					
SBA	Scott Base	74.47 176	P						
M14K	Bethel	74.55 22	Iamb	11 01 06.1					
M14K	Bethel	74.55 22	Iamb						
L14K	Kuka Creek	74.66 22	Iamb	11 01 06.1					
L14K	Kuka Creek	74.66 22	Iamb						
L14K	Kuka Creek	74.66 22	P	11 01 00.3 +1.0					
L14K	Kuka Creek	74.66 22	P						
N15K	Kwethluk River	74.92 23	P	11 01 02.1 +1.2					
N15K	Kwethluk River	74.92 23	P						
M15K	Kasigluk River	75.01 23	P	11 01 02.2 +0.8					
M15K	Kasigluk River	75.01 23	P						
P16K	Nushagak River	75.11 25	P	11 01 03.0 +1.0					
P16K	Nushagak River	75.11 25	P						
J14K	Nanvaranak Lak	75.27 20	P	11 01 04.0 +1.2					
J14K	Nanvaranak Lak	75.27 20	P						

L15K	Ungalak Mounta	75.32 22	P	11 01 03.7 +0.6					
L15K	Ungalak Mounta	75.32 22	P						
O16K	Kokwok River B	75.39 25	P	11 01 04.7 +1.1					
O16K	Kokwok River B	75.39 25	P						
SII	Sitkinak Islan	75.46 28	P	11 01 04.7 +0.6					
SII	Sitkinak Islan	75.46 28	P						
Q17K	Contact Creek	75.59 26	P	11 01 05.7 +0.8					
Q17K	Contact Creek	75.59 26	P						
N16K	Nishiik Lake	75.63 24	P	11 01 05.8 +0.8					
N16K	Nishiik Lake	75.63 24	P						
K15K	Wolf Creek Mou	75.69 21	Iamb	11 01 09.8					
K15K	Wolf Creek Mou	75.69 21	Iamb						
K15K	Wolf Creek Mou	75.69 21	P	11 01 06.3 +1.0					
K15K	Wolf Creek Mou	75.69 21	P						
TNA	Tin City	75.83 17	P	11 01 06.8 +0.9					
TNA	Tin City	75.83 17	P						
P17K	Kvichak River	75.86 25	P	11 01 07.2 +0.9					
P17K	Kvichak River	75.86 25	P						
R18K	Katuk	75.86 27	P	11 01 07.2 +0.9					
R18K	Katuk	75.86 27	P						
M16K	Timber Creek	75.88 23	P	11 01 06.1 -0.3					
M16K	Timber Creek	75.88 23	P						
ANM	Nome	75.89 18	P	11 01 06.6 +0.3					
ANM	Nome	75.89 18	P						
O17K	Koliganek Bris	75.91 25	P	11 01 07.2 +0.7					
O17K	Koliganek Bris	75.91 25	P						
L16K	Owhat River	76.09 22	P	11 01 08.3 +0.7					
L16K	Owhat River	76.09 22	P						
ZSN	Zaisan	76.12 321	eP	11 01 08.4 +0.3					
ZSN	Zaisan	76.12 321	eP						
ZSN	Zaisan	76.12 321	eP	11 01 08.4 +0.3					
ZSN	Zaisan	76.12 321	eP						
O18K	Katmai Harcdr	76.18 26	P	11 01 08.8 +0.5					
O18K	Katmai Harcdr	76.18 26	P						
OHAK	Old Harbor	76.23 28	P	11 01 08.9 +0.5					
OHAK	Old Harbor	76.23 28	P						
F14K	Arctic Creek	76.23 17	P	11 01 08.9 +0.6					
F14K	Arctic Creek	76.23 17	P						
N17K	Nushagak Hills	76.30 24	Iamb	11 01 26.5					
N17K	Nushagak Hills	76.30 24	Iamb						
N17K	Nushagak Hills	76.30 24	P	11 01 09.7 +0.9					
N17K	Nushagak Hills	76.30 24	P						
P18K	Big Mountain,	76.49 26	P	11 01 10.3 +0.4					
P18K	Big Mountain,	76.49 26	P						
TIXI	Tiksi	76.60 353	LR	11 31 41.4					
TIXI	Tiksi	76.60 353	LR						
G15K	Niukluk	76.61 18	P	11 01 10.8 +0.4					
G15K	Niukluk	76.61 18	P						
J16K	Anvik River	76.65 21	P	11 01 10.5 -0.2					
J16K	Anvik River	76.65 21	P						
M17K	Holtna River	76.70 23	Iamb	11 01 16.1					
M17K	Holtna River	76.70 23	Iamb						
M17K	Holtna River	76.70 23	P	11 01 10.3 -0.7					
M17K	Holtna River	76.70 23	P						
O18K	Koktuh Hills	76.75 25	P	11					

8d 10h

DHY	Denali Highway baz=244,SNR=5.5	81.60	24	P	P	11 01 37.9	-0.2
NEA2	Nenana baz=242	81.62	22	P	P	11 01 38.2	+0.3
M24K	Tolsona, Glenn baz=245	81.69	25	P	P	11 01 39.0	+0.6
AAK	Ala-Archa	81.72	314	P	P	11 01 38.2	-1.0
AAK	Ala-Archa comp=Z,10.0nm,1.7s	81.72	314	pmax	pmax	11 01 40.2	+1.1
I23K	Minto, Yukon-K baz=242	81.77	22	P	P	11 01 39.5	+0.8
SGDS	Soginley baz=242	81.81	315	eP	P	11 01 39.7	+0.2
HMT	Hamilton	81.82	27	P	P	11 01 38.5	-0.6
HMT				Iamb	Iamb	11 01 45.4	
B20K	Meade River baz=254	81.83	16	P	P	11 01 39.7	+0.9
E21K	Kilik River baz=237	81.88	18	P	P	11 01 39.3	+0.1
G22K	Bettles baz=240	81.88	20	P	P	11 01 40.0	+0.8
BMRM	Bremner River comp=Z,26nm,1.2s	81.91	27	Iamb	Iamb	11 02 11.1	
BMRM	Bremner River baz=247	81.91	27	P	P	11 01 40.3	+0.7
WRH	Wood River Hill comp=Z,21nm,1.2s	81.94	23	Iamb	Iamb	11 02 13.6	
F22K	John River baz=239	81.95	19	P	P	11 01 40.1	+0.4
C21K	Knifeblade Rid baz=236	82.03	17	P	P	11 01 40.6	+0.7
H23K	Yukon River	82.03	21	P	P	11 01 39.8	-0.3
H23K	Yukon River baz=242	82.03	21	P	P	11 01 40.6	+0.5
N25K	Chitina, Valde comp=Z,31nm,1.7s	82.17	26	Iamb	Iamb	11 01 47.3	
N25K	Chitina, Valde baz=247	82.17	26	P	P	11 01 41.8	+0.8
COLA	College	82.22	22	P	P	11 01 39.9	-1.1
COLA				Iamb	Iamb	11 01 45.7	
COLA	comp=Z,30nm,1.4s	82.22	22	P	P	11 01 42.7	+1.7
COLA		82.22	22	P	P	11 01 39.9	-1.1
COLA	comp=Z,30nm,1.4s			pmax	pmax		
COLA	College baz=243	82.22	22	P	P	11 01 42.0	+1.0
HARP	HAARP baz=246	82.25	25	P	P	11 01 42.5	+1.3
G23K	Bananza Creek baz=241	82.28	20	P	P	11 01 42.5	+1.0
B21K	Ikpiuk River baz=236	82.33	17	P	P	11 01 42.6	+1.1
PAX	Paxson baz=246	82.35	25	P	P	11 01 42.7	+0.8
HDA	Harding Lake baz=244	82.36	23	P	P	11 01 42.8	+0.9
E22K	Anaktuvuk Pass baz=239	82.40	19	P	P	11 01 42.6	+0.6
COLD	Coldfoot comp=Z,15nm,1.3s	82.47	20	Iamb	Iamb	11 01 49.6	
COLD	Coldfoot baz=241	82.47	20	P	P	11 01 42.8	+0.4
POKR	Poker Plat Res baz=244	82.48	22	P	P	11 01 43.5	+1.1
CR2K	Cirque comp=Z,16nm,1.0s	82.50	27	Iamb	Iamb	11 01 59.9	
D22K	Aiyikak River baz=238	82.51	18	P	P	11 01 43.3	+0.8
CRQE	Cirque baz=248	82.51	27	P	P	11 01 43.6	+0.7
ILAR	Eielson Array baz=254	82.54	23	P	P	11 01 40.5	-2.2
ILAR	Eielson Array comp=Z,3.8nm,0.8s,baz=258,slow=4.7,SNR=38	82.54	23	P	P	11 01 42.0	-0.7
ILAR				LR	LR	11 32 13.5	
K24K	Donnelly Dome comp=Z,3.8nm,0.8s,baz=248,slow=31	82.57	24	Iamb	Iamb	11 02 17.2	
K24K	Donnelly Dome baz=246	82.57	24	P	P	11 01 43.6	+0.7
BTSL	Baital comp=Z,9.0nm,1.5s	82.57	316	eP	pmax	11 01 43.5	+0.1
BTSL	Baital comp=Z,9.1nm,1.5s	82.57	316	eP	P	11 01 43.5	+0.1
H24K	Noodor Dome baz=243	82.64	22	P	P	11 01 44.3	+1.0
A21K	Barrow baz=254	82.75	15	P	P	11 01 44.5	+0.9
MCARA	McCarthy VSAT baz=248	82.78	27	P	P	11 01 45.0	+0.9
MESA	MESA baz=249	82.83	28	P	P	11 01 45.6	+1.0
RIDG	Independent Ri comp=Z,21nm,1.2s	82.92	24	Iamb	Iamb	11 01 50.5	
RIDG	Independent Ri baz=246	82.92	24	P	P	11 01 44.6	-0.2
A22K	Sinclair Lake baz=236	83.01	16	P	P	11 01 44.1	-0.9
J25K	Salcha River, baz=246,SNR=24	83.06	23	P	P	11 01 45.5	-0.1
MENT	Mentasta baz=246,SNR=24	83.07	25	P	P	11 01 49.4	+3.8
B22K	Teshkepkuk Lake baz=238	83.07	17	P	P	11 01 45.7	+0.4
E23K	Chandler baz=241	83.07	19	P	P	11 01 45.6	+0.1
M26K	Nabesna, AK baz=248	83.17	26	P	P	11 01 46.9	+0.8
D23K	Nanushuk River baz=240	83.18	18	P	P	11 01 46.3	+0.3
G24K	Hadweenzic Riv baz=240	83.18	21	P	P	11 01 46.5	+0.5
DOT	Dot Lake comp=Z,21nm,1.1s	83.20	24	Iamb	Iamb	11 01 52.0	
L26K	Log Cabin Wild baz=243,SNR=5.3	83.26	25	P	P	11 01 46.7	+0.2
SCRK	Sand Creek comp=Z,11nm,1.2s	83.36	24	Iamb	Iamb	11 01 52.9	
SCRK	Sand Creek baz=247,SNR=7.3	83.36	24	P	P	11 01 47.5	+0.3
TOLK	Toolik Lake Re baz=241	83.37	19	P	P	11 01 47.1	+0.1
PRP	Porcupine Dome baz=246	83.38	22	P	P	11 01 47.5	+0.2
CTG	Chitina Glacier baz=250	83.39	27	P	P	11 01 48.1	+0.7
CTGM	Chitina Glacie comp=Z,14nm,0.9s	83.39	27	Iamb	Iamb	11 01 57.5	
F24K	Squaw Lake baz=243	83.40	20	P	P	11 01 48.0	+0.8
E24K	Your Creek baz=242	83.46	19	P	P	11 01 48.4	+0.9
H25L	Birch Creek baz=245	83.59	22	P	P	11 01 48.6	+0.5
PINM	Pinnacle baz=251	83.60	28	P	P	11 01 48.7	+0.3
C23K	Itkillik River baz=240	83.63	18	P	P	11 01 48.6	+0.3
M27K	Edge Creek, AK baz=249,SNR=22	83.64	26	P	P	11 01 49.3	+0.6
G25K	Bearman Lake baz=245	83.70	21	P	P	11 01 48.7	+0.1
J26L	Joseph Creek baz=247	83.74	24	P	P	11 01 49.2	+0.1
D24K	Happy Valley baz=242	83.85	18	P	P	11 01 49.7	+0.3
O28M	Mount Upton baz=251	83.86	28	P	P	11 01 49.9	-0.1
PNL	Peninsula baz=252	83.87	29	P	P	11 01 49.9	+0.1
BTK	Batken comp=Z,22nm,1.2s	83.91	311	Iamb	Iamb	11 02 08.3	
L27K	Beaver Creek, comp=Z,13nm,1.2s	83.92	25	Iamb	Iamb	11 01 56.4	
L27K	Beaver Creek, baz=249	83.92	25	P	P	11 01 50.8	+0.8
BCAR	Beaver Creek A DZA	84.05	314	eP	P	11 01 51.4	+0.4
DZA	Taraz	84.05	314	eP	P	11 01 51.5	+0.4
YUK3	Moose Creek baz=250,SNR=10	84.07	27	P	P	11 01 51.8	+0.8
BVCY	Beaver Creek baz=250	84.11	26	P	P	11 01 51.4	+0.5
C24K	Franklin Bluff baz=242	84.16	18	P	P	11 01 51.5	+0.6

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K27K	Chicken baz=249	84.16	24	P	P	11 01 52.0	+0.9
I26K	Coal Creek Min baz=248	84.21	23	P	P	11 01 51.6	+0.3
F25K	Chitina River baz=245	84.21	20	P	P	11 01 51.4	+0.1
YUK8	Steele Glacier baz=251	84.22	27	P	P	11 01 52.3	+0.5
O29M	Mount Kennedy baz=252	84.26	28	P	P	11 01 53.7	+0.8
BRZS	Berezinski baz=251	84.57	321	eP	P	11 01 54.0	+0.5
BRZS	Berezinski baz=251	84.57	321	eP	P	11 01 54.0	+0.5
G26K	Porcupine Riv comp=Z,10.0nm,0.9s	84.61	21	Iamb	Iamb	11 02 26.2	
G26K	Porcupine Riv baz=247	84.61	21	P	P	11 01 53.4	+0.1
P29M	Windy Craggy baz=253	84.67	29	P	P	11 01 53.6	-0.2
KK31	Karatay Array	84.68	314	P	P	11 01 52.9	-1.3
KK31	Karatay Array	84.68	314	P	P	11 01 52.9	-1.3
KK31				pmax	pmax		
KKAR	comp=Z,35nm,1.2s	84.68	314	P	P	11 01 53.1	-1.1
KKAR	Karatay Array	84.68	314	P	P	11 01 53.1	-1.1
D25K	Kavik River baz=244	84.71	19	P	P	11 01 54.0	+0.2
YUK4	Talbot Arm baz=252	84.75	27	P	P	11 01 55.1	+0.7
YUK6	Outpost Mounta baz=252	84.76	28	P	P	11 01 54.4	-0.1
F26K	Sheenjik River baz=247	84.78	21	P	P	11 01 54.4	+0.2
I27K	Kandik River baz=249	84.91	23	P	P	11 01 55.5	+0.6
S31K	Pelican baz=255	84.95	31	P	P	11 01 56.4	+1.2
SIMJ	Simiganj baz=255	85.06	309	P	P	11 01 54.8	-1.6
HYT	Haines Junctio comp=Z,20nm,1.1s	85.12	28	Iamb	Iamb	11 02 03.5	
HYT	Haines Junctio baz=253,SNR=20	85.12	28	P	P	11 01 57.3	+1.1
BRLS	Borolday	85.15	314	eP	pmax	11 01 57.0	+0.4
BRLS				pmax	pmax		
BRLS	comp=Z,8.0nm,1.3s	85.15	314	eP	P	11 01 57.0	+0.4
BRLS	Borolday comp=Z,7.7nm,1.3s	85.15	314	eP	P	11 02 07.6	
M29M	Somme Creek comp=Z,8.6nm,0.9s	85.17	26	Iamb	Iamb	11 01 57.2	+0.8
M29M	Somme Creek baz=252	85.17	26	P	P	11 01 57.2	+0.8
H27K	Steamboat Mount comp=Z,13nm,1.1s	85.17	22	Iamb	Iamb	11 02 28.8	
H27K	Steamboat Mount baz=249	85.17	22	P	P	11 01 56.8	+0.6
MAW	Mawson comp=Z,13nm,1.0s,baz=50,slow=6.5,SNR=5.9	85.18	203	P	LR	11 01 55.4	-0.8
MAW				LR	LR	11 37 41.7	
P30M	Million Dollar baz=254	85.18	29	P	P	11 01 57.7	+1.3
SIT	Sitka baz=256	85.19	32	P	P	11 01 57.7	+1.4
CHM	Chimkent baz=251	85.20	313	eP	P	11 01 57.3	+0.4
CHM	Chimkent baz=251	85.20	313	eP	P	11 01 57.3	+0.4
DAWY	Dawson comp=Z,22nm,1.3s	85.28	25	Iamb	Iamb	11 02 04.0	
DAWY	Dawson baz=251,SNR=16	85.28	25	P	P	11 01 57.8	+1.0
PLBC	Plaint Camp baz=254	85.29	30	P	P	11 01 58.2	+1.4
G27K	Doyon Strip baz=249	85.33	22	P	P	11 01 58.4	+1.4
C26K	Camden Bay baz=249	85.43	18	P	P	11 01 59.2	+1.9
N30M	Aishikik Lake comp=Z,14nm,1.4s	85.50	27	Iamb	Iamb	11 02 05.3	
N30M	Aishikik Lake baz=254	85.50	27	P	P	11 01 59.2	+1.2
I28M	Miner Creek comp=Z,29nm,1.8s	85.52	23	Iamb	Iamb	11 02 29.6	
I28M	Miner Creek baz=251	85.52	23	P	P	11 01 58.9	+0.9
L29M	L29M comp=Z,12nm,0.9s	85.52	26	Iamb	Iamb	11 02 08.0	
L29M	L29M baz=252,SNR=13	85.52	26	P	P	11 01 59.1	+1.1
S32K	Kilinoo baz=256	85.68	32	P	P	11 02 00.4	+1.6
C27K	Jago River baz=247	85.69	19	P	P	11 01 59.9	+1.2
O30N	Mendenhall comp=Z,15nm,1.3s	85.78	28	Iamb	Iamb	11 02 06.0	
O30N</							



TAP 08 10:51:25.9,24.96N,122.32E,h19km,ML2.5,D
JMA 08 10:51:26.4,0.3,24.9N,0.8,122.3E,0.3,h1km,2km,
MV2.5/7,TAIWAN REGION

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Santiao Chiao, Grass Mountain, Shuangxi, Wu-fen Shan, Suao, National Taiwan, Dongshan, Neicheng, Mucha, Fushanzhiwuyua, etc.

JMA 08 11:00:51.9,0.1,43.0N,0.6,145.9E,0.7,h44km,1km,
MV2.7/28,OFF NEMURO PENINSULA
SKHL 08 11:00:53.1,0.2,43.0N,1.45,90E,h36km,3km,mb4.2/2

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Nemuro 2, Nemuro-Hokkai, Kushirohamanak, Akkeshi, Nemuroshibetsu, etc.

ISN 08 11:14:16.7,0.8,33.47N,46.12E,h13km,3km,ML2.6
TEH 08 11:14:19.7,33.49N,46.14E,h8km,59km
ISC 08 11:14:18.4,1.2,33.44N,0.03,46.07E,0.05,h5km,11km,

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Ilam Banvizeh, Badra, Kuril'sk, etc.

SNQR Sonqor, Kerman 1.92 42 Ph Pn 11 14 54.1 0.0
IKRK Kirkuk 2.43 324 ePh Sn 11 14 58.0 -0.8
IKRK Kirkuk eSn Pn 11 15 28.0 -0.9

CATAC 08 11:39:01.5,1.2,13°N,6'x8'9W, h31km,21km,ML2.9/7,
MLV2.9/7,Error ellipse: s-maj=11.9km s-min=9.7km az=5.6,
c=11mrad
SNET 08 11:39:02.0,1.2,12.82N,88.95W,h28km,ML2.9
GGC 08 11:39:02.7,0.3,12.91N,88.98W,h70km,11km,MD3.8

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Alcala de Te, Tecapa, Universidad de, Pacaya, Presa 15 de Se, etc.

FUNV 08 11:56:44.4,9.91N,73.14W,h20km,MW3.3
RSNC 08 11:56:47.2,0.0,10°N,1'x7'3W, h1km,2km,ML1.8,ML1.8
ISC 08 11:56:43.6,1.5,9.71N,0.04,72.9W,0.04,h6km,13km,n8,

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Machiques, Carrejon, Guaj, Ariguani, Magd, Capacho, San Jacinto, Pamplona, El Baul, Beln, etc.

SJA 08 11:59:45.5,0.6,23.97S,66.97W,h220km,ML4.4,MW4.1
NEIC 08 11:59:46.8,1.1,24.05S,0.07,66.92W,0.04,h198km,8km,
mb4.4/21,Mw4.3(GUC),Error ellipse: s-maj=9.6km

GUC 08 11:59:47.8,0.6,23.97S,67.37W,h223km,4km,ML4.5
IDC 08 11:59:47.0,1.8,23.97S,66.82W,h186km,17km,mb6.3/7,
mbmp4.0/13,MSS3.9/2,Error ellipse: s-maj=21.4km

VAO 08 11:59:50.0,1.2,23.84S,66.79W,h212km,8km,mb4.3
ISC 08 11:59:47.1,0.6,24.01S,0.03,67.00W,0.04,h197km,gkm,

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like San Pedro de A, SLA, Yavi, Cafayete, Mina Guanaco, IPOC Station P, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like IPOC Station P, Copiapo, Copiapo, Copiapo, Copiapo, Copiapo, etc.



CD2	comp=Z,550nm,16.0s	LR	LR						
WDI	comp=Z,580nm,16.6s								
GSI	Gunungsitoli	29.97 256	P	P	13 29 44.0 +0.2				
WRA	Warrungga Arr	30.23 165	P	P	13 29 45.0 -1.0				
WRA	Warrungga Arr	30.39 165	P	P	13 29 45.9 -1.4				
WRB	Warrungga Arr	30.44 165	P	P	13 29 47.5 -0.3				
WRB	comp=Z,31nm,1.6s	IAMB	IAMB		13 30 51.0				
TNCH	TengChong	30.71 303	P	P	13 29 51.2 +0.7				
TNCH	comp=Z,18nm,0.6s	P	P						
MBWA	Marble Bar	31.33 192	P	P	13 29 55.3 -0.3				
BJI	Beijing	31.65 345	P	P	13 29 58.5 +0.3				
BJI	comp=Z,3.0nm,1.4s								
BJI	comp=Z,47nm,5.0s								
BJI	comp=Z,110nm,20.8s								
BJI	comp=Z,86nm,14.3s								
BJI	comp=Z,110nm,16.4s								
PSA0	Pilbara Seismi	31.71 192	P	P	13 29 58.4 -0.6				
LZH	Lanzhou	33.44 325	P	P	13 30 15.1 +0.9				
LZH	comp=Z,22nm,1.0s								
LZH	comp=Z,490nm,13.3s								
LZH	comp=Z,390nm,14.9s								
LZH	comp=Z,430nm,15.9s								
HHC	Hu-ho-hao-te	33.79 339	eP	P	13 30 18.2 +1.0				
HHC	comp=Z,29nm,1.0s								
HHC	comp=Z,150nm,5.8s								
HHC	comp=Z,270nm,12.6s								
HHC	comp=Z,180nm,13.1s								
HHC	comp=Z,310nm,13.3s								
AS31	Alice Springs	33.88 168	P	P	13 30 18.1 +0.1				
ASAR	Alice Springs	33.88 168	P	P	13 30 18.1 +0.1				
ASAR	Alice Springs	33.88 168	P	P	13 30 16.8 -1.2				
ASAR	comp=Z,0.4nm,0.3s,baz=354,slow=7.1,SNR=34								
ASAR	comp=Z,0.4nm,0.5s,baz=342,slow=3.2,SNR=1.5								
ASAR	comp=Z,179nm,20.4s,baz=274,slow=39								
ASAR	comp=Z,0.4nm,0.3s								
CN2	Changchun	34.04 359	eP	P	13 30 19.9 +0.7				
CN2	comp=Z,2.1nm,0.6s,baz=187,slow=5.8,SNR=6.4								
CN2	comp=Z,120nm,16.0s								
CN2	comp=Z,200nm,16.0s								
CN2	comp=Z,210nm,18.0s								
BTO	Baotou	34.14 337	eP	S	13 30 21.7 +1.5				
BTO	comp=Z,13nm,0.6s								
BTO	comp=Z,180nm,5.5s								
BTO	comp=Z,340nm,7.6s								
BTO	comp=Z,470nm,15.9s								
BTO	comp=Z,310nm,15.9s								
USRK	Ussuriysk Ar.	34.75 7	P	P	13 30 26.7 +1.4				
USRK	comp=Z,2.1nm,0.6s,baz=187,slow=5.8,SNR=6.4								
MDJ	Mudanjiang	34.95 4	P	P	13 30 27.1 +0.1				
MDJ	comp=Z,13nm,1.3s								
MDJ	comp=Z,210nm,12.4s								
MDJ	comp=Z,200nm,15.1s								
MDJ	comp=Z,250nm,18.6s								
XLT	XILinHaoTe	35.32 347	eP	S	13 30 30.3 0.0				
XLT	comp=Z,12nm,1.2s								
XLT	comp=Z,28nm,17.9s								
XLT	comp=Z,250nm,12.1s								
XLT	comp=Z,360nm,17.9s								
CTAO	Charters Tower	35.35 147	P	P	13 30 28.7 -2.0				
ERM	Erimo	35.41 22	P	P	13 30 34.3 +3.4				
BRDH	Bariadhala	35.83 295	LR	LR	13 46 27.1				
BNX	BinXian	35.98 1	P	P	13 30 36.2 +0.4				
BNX	comp=Z,5.0nm,0.9s								
BNX	comp=Z,82nm,6.5s								
BNX	comp=Z,350nm,19.5s								
BNX	comp=Z,140nm,16.8s								
BNX	comp=Z,480nm,20.6s								
ASAJ	Asahikawa	37.07 19	LR	LR	13 45 42.7				
GTA	Gaotai	38.04 326	eP	P	13 30 54.4 +0.8				
GTA	comp=Z,8.0nm,0.6s								
GTA	comp=Z,240nm,16.0s								
GTA	comp=Z,260nm,17.4s								
HNR	Honiara	38.28 119	LR	LR	13 45 16.8				
KLR	Kul'dur	39.70 5	P	P	13 31 07.6 +0.5				
KLR	comp=Z,2.9nm,0.6s,baz=182,slow=4.0,SNR=12								
KLR	comp=Z,182nm,19.1s,baz=206,slow=37								
MORW	Morwa	39.79 194	P	P	13 31 08.3 +0.1				
H1N1	WAKE ISLAND Hy	40.21 71	T	T	14 14 29.8				
H1N1	WAKE ISLAND Hy	40.22 71	T	T	14 14 28.2				
H1N2	WAKE ISLAND Hy	40.23 71	T	T	14 14 30.9				
HEH	Heihe	40.49 1	eP	P	13 31 14.0 +0.3				
HEH	comp=Z,7.0nm,1.3s								
HEH	comp=Z,230nm,17.3s								
HEH	comp=Z,280nm,18.6s								
HEH	comp=Z,320nm,18.7s								
ULN	Ulanbaatar	41.50 340	IAMB	IAMB	13 31 21.1 -1.1				
ULN	comp=Z,30nm,1.4s								
ULN	Ulanbaatar	41.50 340	P	P	13 31 23.5 +1.2				
SONM	Songino Array	41.70 340	P	P	13 31 23.2 -0.6				
SONM	comp=Z,33nm,1.6s								
SONM	Songino Array	41.70 340	P	P	13 31 24.7 +0.9				
SONM	comp=Z,4.0nm,0.7s,baz=161,slow=9.0,SNR=26								

SONM	comp=Z,218nm,18.0s,baz=145,slow=40	LR	LR		13 51 52.0				
BBOO	Buckleboop	43.18 168	P	P	13 31 35.5 -0.4				
NWAO	Narogin (SRO)	43.25 181	P	P	13 31 35.8 -0.6				
STKA	Stevens Creek	43.73 161	P	P	13 31 39.9 -0.4				
PALK	Pallekele	45.37 271	LR	LR	13 52 20.9				
WMQ	Urumeji	47.88 322	eP	P	13 32 14.5 +1.5				
WMQ	comp=Z,410nm,14.1s								
WMQ	comp=Z,340nm,11.3s								
PEAOB	Petropavlovsk-	50.10 24	P	P	13 32 30.6 +0.8				
PEAOB	comp=Z,22nm,1.4s								
PETK	Petropavlovsk-	50.10 24	P	P	13 32 30.6 +0.8				
PETK	Petropavlovsk-	50.10 24	P	P	13 32 31.3 +1.4				
PETK	comp=Z,0.8nm,0.5s,baz=225,slow=5.6,SNR=5.3								
PETK	comp=Z,250nm,19.4s,baz=215,slow=36								
DZM	Mont Dzumac	50.25 129	eLR	LR	13 46 50.3				
MKAR	Makanchi Array	52.68 323	P	P	13 32 48.9 -0.5				
MKAR	Makanchi Array	52.68 323	P	P	13 32 49.3 0.0				
MKAR	comp=Z,2.8nm,0.6s,baz=122,slow=6.3,SNR=23								
MKAR	comp=Z,1.0nm,0.5s,baz=111,slow=6.3,SNR=1.3								
MAKZ	Makanchi	52.88 323	P	P	13 32 49.2 -1.6				
MAKZ	comp=Z,2.8nm,0.6s								
MAKZ	comp=Z,8.6nm,1.1s								
MAKZ	Makanchi	52.88 323	P	P	13 32 50.9 +0.2				
MAKZ	comp=Z,2.8nm,0.6s								
MA2	Magadan	53.07 15	LR	LR	13 33 02.2 +3.4				
KSH	Kashi	53.84 312	P	P	13 33 00.1 +2.0				
KSH	comp=Z,5.0nm,1.1s								
NIL	Nilore	54.30 305	P	P	13 33 01.7 +0.3				
NIL	comp=Z,2.8nm,0.6s								
ZALV	Zalesovo Beam	55.30 331	P	P	13 33 19.1 -1.1				
ZALV	comp=Z,1.4nm,0.4s,baz=112,slow=4.0,SNR=7.5								
AAK	Ala-Archa	55.95 315	LR	LR	14 00 02.8				
SEY	Seymchan	56.36 14	LR	LR	13 59 38.0				
KURBB	Kurchatov Arra	56.73 326	P	P	13 33 17.9 -0.6				
KURBB	comp=Z,2.0nm,0.5s								
SHEM	Shemys Is. Ala	57.54 32	LR	LR	14 00 17.7				
KKAR	Karatay Array	58.88 315	P	P	13 33 33.1 -0.6				
TIXI	Tiksi	61.97 1	LR	LR	14 01 07.9				
BVAR	Borovoye Array	62.33 325	P	P	13 33 57.2 +0.1				
BVAR	comp=Z,2.2nm,0.7s,baz=114,slow=6.6,SNR=7.9								
BRVK	Borovoye	62.40 326	P	P	13 33 56.2 -1.4				
BRVK	comp=Z,7.1nm,0.8s								
HRA	Herat	63.43 304	IAMB	IAMB	13 35 57.0				
AB31	Akbulak array	67.52 319	IAMB	IAMB	13 34 30.6 -0.3				
AB31	comp=Z,7.0nm,0.8s								
ABKAR	Akbulak array	67.52 319	IAMB	IAMB	13 34 43.1				
ABKAR	comp=Z,7.0nm,0.8s								
AKTO	Aktobinsk	68.97 320	LR	LR	14 07 26.9				
K17K	Kiditard	74.69 28	IAMB	IAMB	13 35 19.3				
N17K	Nushagak Hills	74.91 30	IAMB	IAMB	13 35 30.6				
KIRV	Kirov	75.11 328	LR	LR	14 11 57.1				
C19K	Lookout Ridge	75.31 21	IAMB	IAMB	13 35 33.3				
H19K	Roundabout Mou	75.90 25	IAMB	IAMB	13 35 36.9				
D20K	Etiyuk River	76.30 21	IAMB	IAMB	13 35 38.4				
B20K	Meade River	76.32 20	IAMB	IAMB	13 35 28.2				
J20K	Nowinta River	76.72 26	IAMB	IAMB	13 35 44.6				
KDAK	Kodiak Island	77.04 33	LR	LR	14 05 31.3				
IMAR	Indian Mountain	77.06 24	P	P	13 35 28.8 +1.2				
B21K	Ikpikpuk River	77.14 21	IAMB	IAMB	13 35 43.5				
GNI	Garni	77.60 309	LR	LR	14 16 36.4				
D22K	Aiyikyak River	77.74 21	P	P	13 35 33.3 +1.7				
D22K	comp=Z,19nm,1.5s								
RAYN	Ar Rayn	78.04 292	P	P	13 35 32.2 -1.7				
RAYN	comp=Z,8.5nm,0.8s								
BPAW	Bear Paw Mtn	78.10 26	IAMB	IAMB	13 35 51.1				
MLY	Manley	78.25 25	IAMB	IAMB	13 35 38.7				
KBZ	Khabaz	78.82 313	P	P	13 35 37.5 -0.2				
KBZ	comp=Z,2.4nm,0.9s,baz=82,slow=4.2,SNR=6.1								
CCB	Clear Creek Bu	79.50 26	P	P	13 35 41.5 +0.5				
ILAR	Gielson Array	79.89 26	P	P	13 35 43.4 +0.2				
ILAR	comp=Z,0.6nm,0.8s,baz=246,slow=5.4,SNR=7.7								
BMAR	Burnt Mountain	80.74 23	P	P	13 35 46.2 -1.5				
RIDG	Independent Ri	80.82 27	P	P	13 35 48.7 +0.4				
RIDG	comp=Z,13nm,1.2s								
G26K	Porcupine Rive	81.08 23	IAMB	IAMB	13 35 55.0				
SCRK	Sand Creek	81.18 27	P	P	13 35 49.4 -0.9				
I28M	Miner Creek	82.77 25							

Table with columns: YRD, LRK, SVAN, OZX, OZY, SRTK, KOPR, SENK, ASTR, BNGB. Includes station names, coordinates, and time/res data.

NEIC 08 13:40:59.6:0.8,35.25N:0.01:97.75W:0.02,h4km,2km, Error ellipse: s-maj=2.2km s-min=1.5km az=105.0

NEIC 08 13:40:59.6:1.1,35.259N:0.009:97.77W:0.01,h5km,1km, mb\_Lg2.1/4,ML2.3/13,ML2.2/36, Error ellipse: s-maj=2.4km s-min=1.5km az=229.0, Oklahoma

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Lists stations like FNO, OK029, OK029, etc.

IDC 08 13:44:07.4:2.6,39.18S:72.18W,h78km,21km,mb3.9/7, mbmp4.3/9,MS3.1/1, Error ellipse: s-maj=39.2km s-min=14.4km az=91.0

NEIC 08 13:44:08.0:2.2,39.34S:0.05:72.42W:0.10,h88km,8km, mb4.7/10,ML4.4(GUC), Error ellipse: s-maj=11.0km s-min=7.7km az=96.0

SJA 08 13:44:07.0:0.7,39.32S:72.43W,h34km,2km,ML4.1, MW4.0

GUC 08 13:44:09.0:0.6,39.37S:72.39W,h84km,3km,ML4.5

ISC 08 13:44:07.0:0.7,39.31S:72.42W:0.05,h76km,6km, n71,+2515/80,mb4.5/11,4C, Central Chile

Large table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Lists stations like LR03, LR03, LR03, etc.

Table with columns: CFA, AC05, G004, CO06, USHA, EPI, EPI, PLTB, PB11, LPAZ, LPZ. Includes station names and coordinates.

ESZP Base Esperanza 25.82 162 P Iamb Iamb 13 49 30.5 -0.3

PMSA Palmer Station 25.97 172 P P 13 49 31.5 -0.6

VNA3 Neumayer Olym 44.60 156 I P 13 52 10.9 -0.4

VNA2 Neumayer-Watz 45.28 155 I P 13 52 16.6 0.0

SNA4 Sanae 46.82 156 I P 13 52 28.9 -0.2

SNA3 Sanae 46.82 156 P Iamb Iamb 13 52 28.6 -0.2

BAUV El Bau 48.18 6 P P 13 52 38.1 -1.7

TROLL Troil, Antarti 48.52 156 I P 13 52 42.2 +0.2

QSPA South Pole Qui 50.93 180 P P 13 53 01.5 +1.1

QSPA South Pole Qui 50.93 180 P P 13 53 01.6 +1.3

TXAR Lajitas Array 74.24 332 P P 13 55 37.0 +1.2

DBIC Dimboko 77.21 70 P P 13 55 52.8 -0.2

BOSA Boshco 77.90 117 P P 13 55 56.5 -0.5

TORD Torodi Ar. Bea 86.31 70 P P 13 56 40.1 -0.7

WMQ Urumqi 164.46 67 ePKP PKPdf 14 04 00.6 -0.9

PZH PanZhiHu 166.32 157 PKP PKPdf 14 04 01.2 -2.5

TIR 08 13:45:59.5:40.53N:20.85E,h12km,ML2.5/5 THE 08 13:46:00.3:40.5N:20.72E,h1km,1km,ML2.4/9, MLh2.4/9

ATH 08 13:46:00.0:40.62N:20.83E,h5km,1km,ML2.5/8, Manual Solution by F.Xalaris First location: 2019/06/08 13:47:10, This location: 2019/06/08 14:34:15 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km

SKO 08 13:46:01.9:40.59N:20.77E,h19km,ML2.3 BEO 08 13:46:01.7:40.59N:21.00E,h2km,2km,ML2.2/8 ISC 08 13:46:00.4:0.9,40.53N:0.02:20.81E:0.02,h5km,7km, n52,+100/82,3C-3D,Greece-Albania border region

Large table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Lists stations like KBN, KBN, KBN, etc.

Table with columns: HORT, HORT, AGG, PLMG, DRME, SRS, SRS, BOSS, BARS, BARS, SELS, SELS, ZAPS, ZAPS, IVAS, ZAGS. Includes station names and coordinates.

GCG 08 14:01:21.8:1.5,13.88N:91.41W,h47km,69km,MD3.8, ML3.4, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Lists stations like STG8, STG8, STG8, etc.

NEIC 08 14:09:33.2:2.5,5.19N:0.08:126.8E:0.1,h48km,11km, mb4.2/13, Error ellipse: s-maj=18.4km s-min=9.9km az=69.0

DJA 08 14:09:37.8:0.3,5.19N:2.12E,h45km,18km,ML4.4/12, mb5.8/2,mb4.4/10,MLV4.4/12,MW(mb)5.3/2

IDC 08 14:09:37.0:2.1,5.23N:126.20E,h67km,16km,mb3.9/12, mbmp4.2/12,MS3.1/3, Error ellipse: s-maj=50.8km s-min=14.0km az=71.0

ISC 08 14:09:37.1:0.6,5.22N:0.05:126.41E:0.09,h71km,n50, mb4.2/13,mb4.2/18,ML2.2/18

Large table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Lists stations like SGSI, SGSI, DAV, DAV, DAV, etc.

comp=Z,2.4nm,0.6s,baz=89,slow=8.4,SNR=8.0
FINES FINES Array B 90.38 332 P P 14 22 30.6 +0.2

NEIC 08 14:11:13.1,2.4, 17.8S:0.1x178.6W:0.1, h534km,6km,
mb4,7/371, Error ellipse: s-maj=15.7km s-min=13.3km
az=140.0

BUI 08 14:11:13.1, 17.16S:178.64W, h526km, mb4.6/14,
mb4.7/49

NOU 08 14:11:14.4, 17.85S:178.50W, h554km, mb5.0/86, Fiji
Islands Region

IDC 08 14:11:15.0, 0.6, 17.74S:178.63W, h561km, 6km, mb4.2/25,
mbmp5,0/27, Error ellipse: s-maj=10.9km s-min=9.1km
az=144.0

GCMT 08 14:11:16.1, 0.6, 18.2S:0.1x178.58W:0.06, h558km,4km,
MW5,2/43, Moment Tensor Solution. s43,c53: Duration:
1s0 Moment tensor: Scale 10^17Nm; Mr:0.68; 0.6;
Mw:0.26; 1.1; Mw-0.41; 0.9; Mw0.39; 1.0; Mw0.53; 0.8;
Mw:0.12; 1.0; Best double couple: Mo:88700.0/1017

NP2:
P:14.00000, S:57.00000, A:56.00000. Principal axes: T
0.8890, P162.0000, Azm329.0000. N -0.0010,
P124.0000. P -0.8860, P16.0000.
AzM227.0000. nsta1 refers to body waves, cutoff=40s.

Triangular moment-rate function

ISC 08 14:11:14.1, 0.3, 17.79S:0.05-178.63W:0.05, h550km,
n885,c098/735, mb5,4/7231, 59C-32D, Fiji Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time Res, ISC, h, s, ISC. Lists various seismic stations and their coordinates.

Main table of seismic events with columns: STKA, QIS, ARPS, HTT, WHYH, JAY, GENI, GENI, BBOO, BBOO, KWH, HMMH, HPAH, WR8, WR8, WB0, WRAB, WRAB, WRA, WRA, WRA, WRA, WRA, AS01, AS31, ASAR, ASAR, ASAR, ASAR, ASAR, KDU, GUMO, MTN, MTN, RKPI, FOR, FOR, KNR, SUI, SOEI, SOEI, TNTI, TNTI, PSA00, PSA00, PSA00, MBWA, MMRI, EDFI, KLBR, SBA, Vnda, APSI, MRSI, KAPI, SPSI, PLAI, PLAI, TOLJ, TOLJ, PCSI, PCSI, JAGI, JAGI, WYLD, WYLD, CASY, CASY, MJAR, MAJO, MAJO, MAJO, JMN, KDK, KDK, ATKA, ATKA, SHEM, SMY, NIKH, JKA, NUNC, NUNC, UNVA, UNVA, QSPA, QSPA, QSPA, QSPA, BSMJ, BSMJ, KSM, KSM, PET, PET, YSS, YSS, PETK, PETK, CHNA, SDPT, SDPT, SDPT, SDPT, KSRS, KSRS, STKA, STKA.

Table of seismic events with columns: KSAR, P08K, S12K, SPIA, S14K, CHIR, USRK, USRK, SII, SII, R16K, VTX, OHAK, OHAK, OHAK, OHAK, ORV, O14K, Q17K, GUMO, O15K, Q16K, KDAD, P16K, M11K, Q18K, N14K, N14K, WAKR, HATC, P17K, M13K, O16K, PNTR, L04D, N15K, N15K, Q20K, DSP, Q19K, P18K, O17K, LHV, M14K, M14K, M14K, NVAR, NVAR, NVAR, M15K, N16K, O18K, CN2, CN2, J04A, BNX, BNX, L14K, P19K, N17K, M16K, O19K, CNPM, K13K, K13K, HOM, N18K, WHN, WHN, L15K, O20K, CNSH, CNSH, V12A, BRK, BRK, BRSE, L16K, L16K, RED, N19K, N19K, M17K, PINE.

I05D	Terrebonne, OR	80.91	38	I	Amb	I	Amb	14 22 33.2
K15K	Wolf Creek Mou	80.95	8	P	P	P	P	14 22 31.9 +0.9
TIA	Taian	81.01	312	P	P	P	P	14 22 32.2 +0.2
MA2	Magadan	81.02	345	P	P	P	P	14 22 30.9 -0.6
M18K	Stony River	81.08	11	P	P	P	P	14 22 31.8 +0.1
DIB	Dawson Inlet,	81.11	26	P	I	Amb	I	14 22 32.0 0.0
SEW	Seward	81.14	14	I	Amb	I	Amb	14 22 32.4
SEW	Seward	81.14	14	P	P	P	P	14 22 31.4 -0.6
J14K	Nanvaranak Lak	81.14	7	P	P	P	P	14 22 32.0 0.0
PRN	Pahroc Range	81.14	46	I	Amb	I	Amb	14 22 35.2
L17K	Donlin	81.27	10	P	P	P	P	14 22 33.8 +1.1
HOOD	Mount Hood Mea	81.31	37	I	Amb	I	Amb	14 22 35.0
Q23K	Middleton Isla	81.33	16	P	P	P	P	14 22 32.1 -0.9
O22K	Cooder Landing	81.42	14	P	P	P	P	14 22 32.7 -0.7
WVOR	Wild Horse Val	81.45	40	I	Amb	I	Amb	14 22 36.2
GAMB	Gambell	81.48	3	I	Amb	I	Amb	14 22 35.1
N20K	Mount Spurr	81.52	13	P	P	P	P	14 22 32.7 -1.3
SPCR	Spurr Chakacha	81.52	13	P	P	P	P	14 22 32.7 -1.3
P23K	Montague Isian	81.55	15	P	P	P	P	14 22 33.2 -0.9
P23K	Montague Isian	81.55	15	P	P	P	P	14 22 33.4 -0.7
L18K	Granite Mounta	81.61	10	I	Amb	I	Amb	14 22 36.2
L18K	Granite Mounta	81.61	10	P	P	P	P	14 22 35.1 +0.7
M19K	Big River Lodg	81.73	11	P	P	P	P	14 22 34.3 -0.7
TUC	Tucson	81.79	52	P	I	Amb	I	14 22 37.6 +1.4
K17K	Iditarod	81.82	9	I	Amb	I	Amb	14 22 37.2
I07A	Iditarod	81.82	9	P	P	P	P	14 22 35.6 +0.1
K17A	Ize	81.84	39	I	Amb	I	Amb	14 22 38.2
STLK	Strandline Lak	81.86	13	I	Amb	I	Amb	14 22 35.4
L19K	White Mountain	81.90	11	I	Amb	I	Amb	14 22 37.2
L19K	White Mountain	81.90	11	P	P	P	P	14 22 35.9 0.0
RC01	Styx River	81.95	12	P	P	P	P	14 22 35.0 -1.3
M20K	Rabbit Creek A	81.95	14	I	Amb	I	Amb	14 22 36.8
RC01	Rabbit Creek A	81.95	14	P	P	P	P	14 22 34.8 -1.3
J16K	Anvik River	82.03	8	I	Amb	I	Amb	14 22 38.2
J16K	Anvik River	82.03	8	P	P	P	P	14 22 37.0 +0.4
J08A	Circle Bar Ran	82.06	40	I	Amb	I	Amb	14 22 37.4 +0.1
SUA	Susitna One	82.06	13	P	P	P	P	14 22 36.1 -0.8
PWL	Port Wells	82.07	14	I	Amb	I	Amb	14 22 37.2
PWL	Port Wells	82.07	14	P	P	P	P	14 22 36.1 -0.7
X16A	Lo Mia Camp, P	82.27	50	I	Amb	I	Amb	14 22 41.2
KAIM	Kayak Island	82.27	17	I	Amb	I	Amb	14 22 39.0
KAIM	Kayak Island	82.27	17	P	P	P	P	14 22 37.9 +0.1
BELA	Belgrano 2	82.31	173	P	P	P	P	14 22 37.6 -0.3
BBB	Bella Bella	82.31	29	P	P	P	P	14 22 37.6 -0.5
J17K	VABM Dome	82.35	9	I	Amb	I	Amb	14 22 39.7
L17K	VABM Dome	82.35	9	P	P	P	P	14 22 38.4 +0.3
L20K	Forewell, AK	82.35	11	P	P	P	P	14 22 37.8 -0.5
SKT	Skwentna	82.36	13	P	P	P	P	14 22 36.7 -1.6
GLI	Glacier Island	82.39	15	P	P	P	P	14 22 37.5 -0.9
FID	Port Fidalgo	82.43	15	I	Amb	I	Amb	14 22 38.9
SPR3	Spring Creek 3	82.43	45	P	P	P	P	14 22 39.3 -0.2
EYAK	Cordova Ski Ar	82.44	16	P	P	P	P	14 22 37.9 -0.8
M22K	Willow	82.46	13	P	P	P	P	14 22 38.0 -0.7
CRAG	Craig	82.49	24	P	P	P	P	14 22 39.3 +0.3
KNB	Kanab	82.50	47	P	I	Amb	I	14 22 41.0 +1.3
319A	Douglas	82.52	54	I	Amb	I	Amb	14 22 42.9
PSUT	Pine Spring	82.53	46	P	P	P	P	14 22 40.3 +0.4
KNK	Knik Glacier	82.53	14	I	Amb	I	Amb	14 22 39.7
KNK	Knik Glacier	82.53	14	P	P	P	P	14 22 38.6 -0.6
PMR	Palmer	82.53	14	I	Amb	I	Amb	14 22 39.6
PMR	Palmer	82.53	14	P	P	P	P	14 22 38.9 -0.5
PMR	Palmer	82.53	14	P	P	P	P	14 22 38.6 -0.5
RAGM	Ragged Mountai	82.59	16	I	Amb	I	Amb	14 22 40.4
I17K	Unalakleet	82.59	8	P	P	P	P	14 22 39.6 +0.3
U15A	North Rim	82.59	48	I	Amb	I	Amb	14 22 42.9
HMT	Hamilton	82.60	16	I	Amb	I	Amb	14 22 40.6
HEH	Heihe	82.76	328	eP	P	P	P	14 22 40.2 0.0
HEH	Heihe	82.76	328	P	P	P	P	14 22 40.2 +0.2
J18K	Nome	82.78	10	I	Amb	I	Amb	14 22 41.5
J18K	Nome	82.78	10	P	P	P	P	14 22 40.4 +0.1
WUAZ	Wupatki	82.82	49	I	Amb	I	Amb	14 22 43.8
G08A	Pilot Rock	82.84	38	I	Amb	I	Amb	14 22 43.0
SIT	Sitka	82.84	22	P	P	P	P	14 22 39.5 -1.2
BERG	Berg Lake	82.86	17	P	P	P	P	14 22 40.5 -0.3
BERG	Berg Lake	82.86	17	I	Amb	I	Amb	14 22 41.9
SML	Sawmill	82.91	14	I	Amb	I	Amb	14 22 42.5
SML	Sawmill	82.91	14	P	P	P	P	14 22 40.3 -0.7
DIV	Divide	82.94	15	I	Amb	I	Amb	14 22 41.8
U33K	Whale Pass	82.97	24	I	Amb	I	Amb	14 22 43.2
U33K	Whale Pass	82.97	24	P	P	P	P	14 22 42.0 +0.7
V35K	Ketchikan	82.99	25	P	P	P	P	14 22 40.6 -0.8
CUT	Chulitna	83.01	13	P	P	P	P	14 22 40.7 -0.7
M23K	Glacier View	83.03	14	P	P	P	P	14 22 41.1 -0.6
E07A	Sunnyside	83.05	36	I	Amb	I	Amb	14 22 43.9

PPLA	Purkeypile	83.06	12	P	P	P	P	14 22 41.0 -0.9
BMRM	Bremner River	83.10	16	P	P	P	P	14 22 41.3 -0.7
BMRM	Bremner River	83.10	16	P	P	P	P	14 22 41.5 -0.5
K20K	Telida	83.13	11	P	P	P	P	14 22 41.9 -0.2
HAWA	Hanford	83.13	37	I	Amb	I	Amb	14 22 44.3
WAX	Waxell Ridge	83.14	17	I	Amb	I	Amb	14 22 43.5
SCM	Sheep Creek Mo	83.16	14	P	P	P	P	14 22 41.9 -0.4
MESA	MESA	83.17	17	P	P	P	P	14 22 41.8 -0.8
DUN6	Lazy B Ranch	83.18	53	I	Amb	I	Amb	14 22 46.1
KLU	Kluina	83.21	15	P	P	P	P	14 22 43.3
S31K	Pelican	83.21	21	I	Amb	I	Amb	14 22 44.1
S31K	Pelican	83.21	21	P	P	P	P	14 22 42.8 +0.3
G15K	Niuklu	83.28	6	P	P	P	P	14 22 42.7 -0.1
HNS	HongShan	83.28	313	UP	P	P	P	14 22 44.9 +1.5
CRQE	Cirque	83.32	17	P	P	P	P	14 22 43.0 -0.2
TGL	Tana Glacier	83.40	17	I	Amb	I	Amb	14 22 44.5
S32K	Killsnoo	83.42	22	P	P	P	P	14 22 43.7 +0.1
J19K	Poorman	83.45	10	P	P	P	P	14 22 43.9 +0.2
WRAK	Wrangell Isian	83.48	24	I	Amb	I	Amb	14 22 44.4 +0.4
WRAK	Wrangell Isian	83.48	24	P	P	P	P	14 22 45.0
WRAK	Wrangell Isian	83.48	24	P	P	P	P	14 22 44.2 +0.2
TNA	Tin City	83.49	4	I	Amb	I	Amb	14 22 45.1
TNA	Tin City	83.49	4	P	P	P	P	14 22 43.8 0.0
PNL	Peninsula	83.51	19	P	P	P	P	14 22 44.3 +0.2
PNL	Peninsula	83.51	19	P	P	P	P	14 22 44.0 -0.1
F14K	Arctic Creek	83.53	5	P	P	P	P	14 22 44.1 +0.1
BJT	Baijatuau	83.55	315	I	Amb	I	Amb	14 22 46.5
BJT	Baijatuau	83.55	315	P	P	P	P	14 22 45.5 +0.8
BJL	Beijing	83.55	315	P	P	P	P	14 22 44.8 +0.1
BJL	Beijing	83.55	315	P	P	P	P	14 22 44.8 +0.1
CAST	Castle Rocks	83.55	12	P	P	P	P	14 22 42.5 -1.7
LYN	LuoYang	83.59	309	eP	P	P	P	14 22 45.7 +0.7
PINM	Pinnacle	83.60	18	P	P	P	P	14 22 44.1 -0.5
RPSI	Rantau Prapat	83.63	275	P	I	Amb	I	14 22 45.2 -0.5
RPSI	Rantau Prapat	83.63	275	P	I	Amb	I	14 22 46.4
N25K	Chitina, Valde	83.64	16	P	P	P	P	14 22 44.4 -0.3
PSI	Prapat	83.66	275	P	I	Amb	I	14 22 46.3 +0.3
BCPM	Bancas Point	83.67	19	I	Amb	I	Amb	14 22 45.9
M24K	Tolsona, Glenn	83.68	15	P	P	P	P	14 22 44.9 +0.1
GRNC	Granite Creek	83.68	17	I	Amb	I	Amb	14 22 46.1
H17K	Granite Mounta	83.70	8	P	P	P	P	14 22 44.6 -0.3
MFID	Camas Ranch	83.72	41	I	Amb	I	Amb	14 22 47.5
WAT6	Susitna Watana	83.72	14	P	P	P	P	14 22 44.5 -0.8
WAT1	Susitna Watana	83.76	13	P	P	P	P	14 22 44.6 -0.7
G16K	Koyuk River	83.84	7	I	Amb	I	Amb	14 22 46.9
G16K	Koyuk River	83.84	7	P	P	P	P	14 22 45.7 +0.1
D08A	Wollman Farm,	83.86	36	I	Amb	I	Amb	14 22 47.8
J20K	Nowinta River	83.87	11	P	P	P	P	14 22 45.4 -0.3
MCARA	McCarthy VSAT	83.87	16	P	P	P	P	14 22 45.2 -0.6
MCARA	McCarthy VSAT	83.87	16	I	Amb	I	Amb	14 22 46.8
MCARA	McCarthy VSAT	83.87	16	P	P	P	P	14 22 45.5 -0.3
KTH	Kantishna Hill	83.90	12	I	Amb	I	Amb	14 22 45.5
MAW	Mawson	83.90	20	P	P	P	P	14 22 45.9 -0.1
F15K	North Star Dit	83.91	6	I	Amb	I	Amb	14 22 46.8
F15K	North Star Dit	83.91	6	P	P	P	P	14 22 45.6 -0.3
CHUM	Chum Lake	83.93	11	P	P	P	P	14 22 44.8 -1.2
TRF	Thorofare Moun	83.94	12	P	P	P	P	14 22 45.2 -1



N31M	Braburn, Yuko	86.05	19	P	P	14 22 56.7 +0.3
P33M	Teslin, Yukon	86.07	21	P	P	14 22 56.7 +0.1
TX31	Lajitas Ar. Si	86.11	58	Iamb	Iamb	14 23 00.6
TXAR	Lajitas Array	86.11	58	P	P	14 22 58.7 +1.2
TXAR	Lajitas Array	86.11	58	P	P	14 22 59.2 +1.7
TXAR	comp=Z,6.6nm,0.9s,baz=221,slow=5.4,SNR=57					14 24 58.9 -1.0
G21K	Alakaket	86.13	10	P	P	14 22 56.1 -0.5
R33M	Jennings River	86.13	22	P	P	14 22 58.8
R33M	Jennings River	86.13	22	P	P	14 22 57.6 +0.6
ANMO	Albuquerque	86.19	52	P	P	14 22 57.8 -0.1
H23K	Yukon River	86.20	12	P	P	14 22 55.7 -1.3
F20K	Avarakert Lake	86.28	9	P	P	14 22 57.1 -0.2
BILL	Bilbino	86.29	354	P	P	14 22 56.9 -0.5
BILL	comp=Z,25nm,1.1s					14 22 58.0
K27K	Chick	86.31	15	Iamb	Iamb	14 22 59.0
K27K	Chicken	86.31	15	P	P	14 22 57.7 +0.1
J26L	Joseph Creek	86.34	14	Iamb	Iamb	14 22 58.4
J66L	Joseph Creek	86.34	14	P	P	14 22 58.0 +0.2
C16K	Lisburne Hills	86.36	5	P	P	14 22 57.3 -0.4
RDOG	Red Dog Mine	86.36	6	P	P	14 22 57.2 -0.5
AHID	Auburn Hatcher	86.40	43	Iamb	Iamb	14 23 00.7
E19K	Redstone River	86.45	8	Iamb	Iamb	14 22 58.8
E19K	Redstone River	86.45	8	P	P	14 22 57.6 -0.5
ALPN	Alpine	86.53	57	Iamb	Iamb	14 23 02.1
L29M	L29M	86.62	17	P	P	14 22 59.4 +0.4
N32M	Quiet Lake	86.67	20	P	P	14 22 59.2 -0.1
DLMT	Dillon	86.70	40	Iamb	Iamb	14 23 01.9
C17K	DeLong Mountain	86.75	6	P	P	14 22 59.2 -0.3
PRP	Porcupine Dome	86.75	13	Iamb	Iamb	14 23 00.1
PRP	Porcupine Dome	86.75	13	P	P	14 22 58.8 -1.0
F21K	Alatna River	86.78	10	P	P	14 22 59.2 -0.5
G22K	Bettles	86.83	10	P	P	14 22 59.6 -0.3
TPAW	Teton Pass	86.84	42	Iamb	Iamb	14 23 02.9
FXWY	Fox Creek	86.86	42	P	P	14 23 00.5 -0.4
G23K	Bananza Creek	86.90	11	P	P	14 23 00.0 -0.3
M31M	Drury Creek	87.03	19	Iamb	Iamb	14 23 01.7
M31M	Drury Creek	87.03	19	P	P	14 23 00.6 -0.4
DAWY	Dawson	87.03	16	Iamb	Iamb	14 23 02.1
DAWY	Dawson	87.03	16	P	P	14 23 01.0 0.0
HHC	Hu-ho-hao-te	87.04	315	eP	pmax	14 23 02.9 +1.2
HHC	comp=Z,22nm,1.0s					pmax
I26K	Coal Creek Min	87.11	14	Iamb	Iamb	14 23 03.2
I26K	Coal Creek Min	87.11	14	P	P	14 23 01.1 -0.2
C18K	Utukok River	87.11	6	P	P	14 23 00.5 -0.8
L0HW	Long Hollow	87.12	42	Iamb	Iamb	14 23 04.0
F22K	John River	87.25	10	P	P	14 23 01.5 -0.4
D19K	Kuna River	87.32	7	P	P	14 23 01.6 -0.7
COLD	Coldfoot	87.33	11	Iamb	Iamb	14 23 03.4
COLD	Coldfoot	87.33	11	P	P	14 23 02.3 +0.1
E20K	Nigu River	87.34	8	P	P	14 23 02.1 -0.3
K29M	Barlow Dome	87.36	17	Iamb	Iamb	14 23 04.1
K29M	Barlow Dome	87.36	17	P	P	14 23 02.8 +0.2
YFT	Old Faithful	87.36	42	Iamb	Iamb	14 23 06.5
G24K	Hadwezenic Riv	87.38	12	P	P	14 23 01.9 -0.6
FARO	Faro, Yukon	87.38	19	P	P	14 23 02.5 -0.2
BW06	Boulder Array	87.41	44	Iamb	Iamb	14 23 04.9
PD31	Pinedale Array	87.41	44	Iamb	Iamb	14 23 04.9
PDAR	Pinedale Array	87.41	44	P	P	14 23 03.0 -0.5
PDAR	Pinedale Array	87.41	44	P	P	14 23 03.5 -0.1
BOZ	Bozeman (W)	87.41	40	Iamb	Iamb	14 23 05.3
WTLY	Watson Lake, Y	87.42	23	Iamb	Iamb	14 23 04.5
WTLY	Watson Lake, Y	87.42	23	P	P	14 23 02.8 -0.1
HT7A	Grant Village	87.50	42	Iamb	Iamb	14 23 07.0
SAND	Sanderson	87.59	58	P	P	14 23 04.5 +0.1
SAND	comp=Z,10nm,1.1s					14 23 06.4
KMI	Kunming	87.59	297	P	pmax	14 23 05.9 +1.2
MAYO	Mayo, Yukon	87.63	18	P	P	14 23 04.0 +0.3
J29N	Klondike Camp	87.65	16	P	P	14 23 04.1 +0.1
G25K	Bearman Lake	87.71	12	P	P	14 23 04.1 +0.1
D20K	Etiwuk River	87.71	8	Iamb	Iamb	14 23 04.9
D20K	Etiwuk River	87.71	8	P	P	14 23 03.8 -0.3
I27K	Kandik River	87.72	14	P	P	14 23 03.3 -0.4
C19K	Lookout Ridge	87.72	7	P	P	14 23 03.8 -0.3
B18K	Kokolik River	87.74	6	P	P	14 23 04.1 -0.1
E21K	Killik River	87.83	9	Iamb	Iamb	14 23 05.1
E21K	Killik River	87.83	9	P	P	14 23 04.1 -0.5
E22K	Anaktuvuk Pass	87.88	10	Iamb	Iamb	14 23 05.7
E22K	Anaktuvuk Pass	87.88	10	P	P	14 23 04.6 -0.3
TOAD	Toad River Com	87.94	25	P	P	14 23 05.6 +0.3
LIRD	Liard River Hi	87.96	24	P	P	14 23 05.6 +0.2
I28M	Miner Creek	88.00	15	P	P	14 23 05.1 -0.5
F24K	Squaw Lake	88.01	11	Iamb	Iamb	14 23 06.0
F24K	Squaw Lake	88.01	11	P	P	14 23 05.4 -0.2
YNE	Yellowstone No	88.14	41	Iamb	Iamb	14 23 09.2
E23K	Chandalar	88.18	11	Iamb	Iamb	14 23 07.2

E23K	Chandalar	88.18	11	P	P	14 23 06.1 -0.2
H27K	Stambot Moun	88.25	14	Iamb	Iamb	14 23 07.8
H27K	Stambot Moun	88.25	14	P	P	14 23 06.7 0.0
J30M	Hart River	88.26	17	P	P	14 23 06.4 -0.4
MMPY	Sheldon Lake	88.33	20	P	P	14 23 07.6 +0.5
I29M	Ogilvie Camp	88.34	16	P	P	14 23 06.5 -0.5
G26K	Porcupine River	88.35	13	P	P	14 23 07.3 +0.3
C21K	Knifeblade Rid	88.37	8	P	P	14 23 07.2 +0.1
E24K	You Creek	88.39	11	P	P	14 23 07.1 -0.2
D22K	Aiyikyak River	88.42	9	P	P	14 23 07.2 -0.1
F25K	Christian River	88.51	12	Iamb	Iamb	14 23 09.2
F25K	Christian River	88.51	12	P	P	14 23 08.2 +0.3
TGNT	Hyland Airport	88.58	22	P	P	14 23 08.4 +0.1
BMAR	Burnt Mountain	88.59	12	P	P	14 23 08.0 -0.2
A19K	Wainwright	88.62	6	P	P	14 23 07.9 -0.3
CMAR	Chiang Mai Arr	88.65	290	P	P	14 23 10.3 +0.8
RLMT	Red Lodge	88.66	42	Iamb	Iamb	14 23 11.4
G27K	Devon Strip	88.70	14	P	P	14 23 08.6 -0.1
TOLK	Toolik Lake Re	88.70	10	Iamb	Iamb	14 23 10.5
TOLK	Toolik Lake Re	88.70	10	P	P	14 23 08.5 -0.3
OZNA	Ozona	88.74	57	Iamb	Iamb	14 23 11.6
I30M	Mount Dempster	88.75	16	Iamb	Iamb	14 23 09.9
I30M	Mount Dempster	88.75	16	P	P	14 23 08.8 -0.3
CHTO	Chiang Mai	88.76	290	P	P	14 23 11.1 +1.0
CHTO	comp=Z,11nm,0.8s					14 23 12.0
CHTO	Chiang Mai	88.76	290	P	P	14 23 11.3 +1.2
D23K	Nanushuk River	88.81	10	P	P	14 23 09.4 +0.2
B21K	Ikpikuk River	88.83	8	P	P	14 23 08.9 -0.2
BEAVL	Fort Liard	88.86	24	P	P	14 23 09.5 -0.1
B20K	Meade River	88.86	7	Iamb	Iamb	14 23 09.6
B20K	Meade River	88.86	7	P	P	14 23 09.1 -0.2
F26K	Sheenjek River	88.90	12	Iamb	Iamb	14 23 11.1
F26K	Sheenjek River	88.90	12	P	P	14 23 09.8 +0.1
PZH	PanZhiHua	88.91	298	P	pmax	14 23 11.0 +0.2
PZH	comp=Z,10.0nm,1.1s					pmax
H29M	Whitestone	89.01	15	P	P	14 23 09.9 -0.2
KOTAN	Kotaneellee Arr	89.22	24	P	P	14 23 11.1 -0.1
D24K	Happy Valley	89.29	10	P	P	14 23 11.3 -0.1
K22A	Casper	89.37	45	Iamb	Iamb	14 23 14.0
HBVL	Hebronville	89.39	61	Iamb	Iamb	14 23 16.2
EPYK	Eagle Plains	89.54	16	P	P	14 23 12.3 -0.3
G23K	Itkillik River	89.61	9	P	P	14 23 12.9 +0.1
C29M	Pine Creek	89.64	15	Iamb	Iamb	14 23 14.4
G29M	Pine Creek	89.64	15	P	P	14 23 12.5 -0.6
SN05	Snyder S	89.65	55	Iamb	Iamb	14 23 15.1
B22K	Teshekpuk Lake	89.65	8	P	P	14 23 12.6 -0.4
EGMT	Eggleton	89.69	39	Iamb	Iamb	14 23 15.3
HND0	Hondo	89.74	59	P	P	14 23 15.0 +0.6
H31M	Peel River	89.74	17	Iamb	Iamb	14 23 14.0
H31M	Peel River	89.74	17	P	P	14 23 12.7 -0.8
F28M	Old Crow	89.76	14	P	P	14 23 13.5 -0.1
C24K	Franklin Bluff	89.81	10	P	P	14 23 13.9 +0.2
E27K	Coleen River	89.85	13	P	P	14 23 14.1 +0.1
D25K	Kavik River	89.86	11	P	P	14 23 13.8 -0.2
A22K	Sinclair Lake	90.06	8	P	P	14 23 14.6 -0.2
G30M	Atoh Zrail Nji	90.14	15	P	P	14 23 14.9 -0.5
A21K	Barrow	90.16	7	P	P	14 23 14.8 -0.5
TROLL	Troll, Antarti	90.43	180	P	P	14 23 16.9 0.0
BRDY	Brady	90.58	57	Iamb	Iamb	14 23 19.7
G31M	Satah River	90.60	16	P	P	14 23 17.0 -0.4
C27K	Jago River	90.62	12	P	P	14 23 17.4 -0.1
E28M	Babbage River	90.64	13	P	P	14 23 17.4 -0.2
C26K	Camden Bay	90.64	11	P	P	14 23 17.8 +0.2
LZH	Lanzhou	90.65	308	eP	pmax	14 23 19.7 +1.0
SNAK	Sanae	90.72	179	P	P	14 23 17.9 -0.3
SNAK	comp=Z,3.9nm,0.5s					14 23 17.5 -0.7
F30M	Barrier River	90.73	15	P	P	14 23 17.7 -0.3
E29M	Blow River	90.78	14	Iamb	Iamb	14 23 19.6
E29M	Blow River	90.78	14	P	P	14 23 19.0 +0.5
D27M	Malcolm River	90.85	13	P	P	14 23 18.9 +0.2
VNA3	Neumayer Olymp	90.87	176	P	P	14 23 18.8 0.0
F31M	Tsiigehtic	91.13	16	P	P	14 23 19.6 -0.3
VNA2	Neumayer-Watz	91.31	177	P	P	14 23 20.9 0.0
VNA1	Neumayer-Stat	91.54	177	P	P	14 23 22.8 +0.9
RSSD	Black Hills	91.62	44	P	P	14 23 23.2 +0.2
RSSD	comp=Z,7.5nm,1.1s					14 23 21.7 -1.4
INK	Inuvik	91.82	15	P	P	14 23 22.2 -0.8
INK	Inuvik	91.82	15	P	P	14 23 22.2 -0.8
ULN	Ulanbaatar	92.93	320	P	P	14 23 29.0 +0.2
SONM	Songino Array	93.32	319	P	P	14 23 29.6 -1.0
SONM	comp=Z,7.8nm,1.3s					14 23 31.5
SONM	Songino Array	93.32	319	P	P	14 23 29.5 -1.1
YKA	Yellowknife Ar	94.31	25	P	P	14 23 34.3 -0.2
YKA	Yellowknife Ar	94.31	25	P	P	14 23 34.1 -0.5
YKAW3	Yellowknife Wh	94.34	25	Iamb	Iamb	14 23 34.8

YKAW1	Yellowknife Wh	94.35	25	Iamb	Iamb	14 23 36.1
GTA	Gaotai	94.80	310	eP	pmax	14 23 37.9 +0.4
G36M	Paultuk	95.04	17	P	P	14 23 37.1 -0.6
A36M	Sachs Harbour	96.42	15	P	P	14 23 43.2 -0.6
ZALV	Zorovoye Beam	108.01	322	PKIKP	PKIKP	14 28 38.0 -1.2
MKAR	Makanchi Array	108.90	314	PKIKP	PKIKP	14 28 40.1 -1.2
KURBB	Kurbatov Arr	116.62	321	PKIKP	PKIKP	14 28 45.0 -1.3
KURBB	comp=Z,1.4nm,0.6s,baz=264,slow=3.0,SNR=6.7					14 29 38.4 -0.7
KSH	Kashi	112.84	306	PKIKP	PKIKP	14 28 52.2 +3.1
BVAR	Borovoye Array	116.62	321	PKIKP	PKIKP	14 28 54.8 -1.0
BVAR	comp=Z,3.4nm,0.4s,baz=124,slow=2.1,SNR=30					14 30 14.1 +0.4
SPITS	Spitsbergen Ar	119.14	326	PKIKP	PKIKP	14 28 59.1 -0.9
ARCES	ARCCESS Array B	126.16	350	PKIKP	PKIKP	14 29 12.9 -0.7

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like MDRV, VAO, MOLA, MORH, etc.

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like MTBS, KST, KST, KST, etc.

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like PUZ, RUGZ, ETAZ, HIBAZ, etc.

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like PRZ, PRZ, KDJ, NRYN, etc.

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like RIZ, RAO, RAO, RAO, etc.

Table with columns: Code, Station Name, Az, El, Res, and various data points for stations like RAR, RAR, RAR, RAR, etc.

BUI 08 14:19:03.5, 25:125S, 176:92W, h126km, mB5.2/17, mb5.3/66

NEIC 08 14:19:03.7, 25:125S, 176:92W, h110km, Moment Tensor Solution. Duration: 2s8. Moment tensor: Scale 1017Nm; M=0.69; Mb=1.84; Mw=1.15; Ms=0.71; Mss=0.68; Mss=0.70;

NEIC 08 14:19:05.1, 25:055S, 176:64W, h110km, Moment Tensor Solution. Duration: 2s8. Moment tensor: Scale 1017Nm; M=0.69; Mb=1.84; Mw=1.15; Ms=0.71; Mss=0.68; Mss=0.70;

NEIC 08 14:19:05.7, 25:253S, 176:58W, h155km, mb5.3/94, South of Fiji Islands

NEIC 08 14:19:05.7, 25:253S, 176:58W, h155km, mb5.3/94, South of Fiji Islands

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km

NEIC 08 14:19:06.9, 25:275S, 177:19W, h110km



8d 14h

Table with columns: ID, Name, Comp, Z, D, S, P, Max, Min, Diff. Includes entries like P17K Kivchak River, WHN WHN, O16K Kokwok River B, etc.

2019 JUN

Table with columns: ID, Name, Comp, Z, D, S, P, Max, Min, Diff. Includes entries like GLI Glacier Island, U33K Whale Pass, EYAK Cordova Ski Ar, etc.

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Table with columns: ID, Name, Comp, Z, D, S, P, Max, Min, Diff. Includes entries like TIY Taiyuan, G16K Koyuk River, GCSA Galena City Sc, etc.

M29N	Somme Creek	92.73	17	P	P	14 32 03.2 +0.9
IMAR	Indian Mountain	92.74	9	P	P	14 32 03.4 +1.2
ILAR	Eielson Array	92.80	12	P	P	14 32 02.6 +0.1
ILAR	comp-Z, 1.5nm, 0.7s, baz=221, slow=5.3, SNR=18					14 32 37.0 -1.0
ILAR	comp-Z, 4.9nm, 1.1s, baz=228, slow=5.3, SNR=3.5					14 32 54.6 +2.1
ILAR	comp-Z, 1.3nm, 0.7s, baz=229, slow=5.5, SNR=1.8					14 35 49.0 +2.0
ILAR	comp-Z, 0.9nm, 0.8s, baz=218, slow=6.9, SNR=5.9					15 07 12.7
E17K	Hotham Inlet	92.82	6	P	P	14 32 03.3 +0.8
J25K	Salcha River	92.97	13	P	P	14 32 04.1 +0.7
POKR	Poker Plat Res	93.01	12	P	P	14 32 04.0 +0.6
F19K	Shalerruck Mo	93.01	8	IAMB	IAMB	14 32 41.3
F19K	Shalerruck Mo	93.01	8	P	P	14 32 04.7 +1.3
H22K	Ishatitina Cre	93.02	10	P	P	14 32 04.6 +1.1
K27K	Chicken	93.17	15	P	P	14 32 05.5 +1.2
N32M	Quiet Lake	93.22	20	P	P	14 32 05.4 +0.9
J26L	Joseph Creek	93.25	14	P	P	14 32 05.8 +1.1
H23K	Yukon River	93.27	11	P	P	14 32 05.6 +0.9
HHC	Hu-ho-hao-te	93.27	314	eP	P	14 32 06.4 +1.0
HHC				SKS	SKS	14 43 28.4 +2.0
HHC				S	S	14 43 00.9 +0.3
HHC				S	S	14 43 59.2 -3.0
HHC	comp-Z, 2.4nm, 0.6s					
E18K	Tukpahlearik C	93.27	6	P	P	14 32 05.6 +1.0
G21K	Allakaket	93.27	9	IAMB	IAMB	14 32 42.9
G21K	Allakaket	93.27	9	P	P	14 32 05.3 +0.6
D17K	Noatak River	93.31	5	P	P	14 32 06.1 +1.3
L29M	L29M	93.36	17	IAMB	IAMB	14 32 45.1
L29M	L29M	93.36	17	P	P	14 32 06.1 +0.9
F20K	Avarart Lake	93.47	8	P	P	14 32 06.6 +1.1
H24K	Noodor Dome	93.57	12	P	P	14 32 07.6 +1.5
PZH	PanZhiHua	93.65	297	P	P	14 32 07.6 +0.1
PZH						
M19M	Drury Creek, Y	93.66	19	P	P	14 32 07.9 +1.3
E31K	Redstone River	93.67	8	P	P	14 32 07.2 +0.7
RDOG	Red Dog Mine	93.67	5	P	P	14 32 07.3 +0.8
C16K	Lisburne Hills	93.70	4	P	P	14 32 07.5 +0.9
PRP	Porcupine Dome	93.73	13	P	P	14 32 08.2 +1.2
WTLY	Watson Lake, Y	93.81	22	P	P	14 32 08.3 +1.0
DAWY	Dawson	93.84	16	P	P	14 32 08.3 +0.9
F21K	Alatna River	93.94	9	P	P	14 32 08.9 +1.2
G22K	Bettles	93.95	10	P	P	14 32 09.3 +1.6
FARO	Faro, Yukon	93.98	19	P	P	14 32 09.3 +1.2
G23K	Bananza Creek	93.99	10	P	P	14 32 09.1 +1.0
NNA	Nana	94.03	105	LR	LR	15 05 10.5
I26K	Coal Creek Min	94.04	14	IAMB	IAMB	14 32 44.8
I26K	Coal Creek Min	94.04	14	P	P	14 32 09.6 +1.4
CD2	Chengdu	94.04	302	P	P	14 32 10.6 +1.5
C17K	DeLong Mountain	94.06	5	P	P	14 32 09.7 +1.4
K29M	Barlow Dome	94.12	16	IAMB	IAMB	14 32 46.6
K29M	Barlow Dome	94.12	16	P	P	14 32 09.9 +1.1
BTO	Baotou	94.16	313	eP	P	14 32 11.2 +1.7
BTO						
BTO	comp-Z, 2.4nm, 0.7s					
BTO	comp-Z, 1.60nm, 8.1s					
BTO	comp-Z, 1.20nm, 5.6s					
BTO	comp-Z, 1.10nm, 6.5s					
TOAD	Toad River Com	94.17	24	P	P	14 32 09.8 +0.8
LIRD	Liard River Hi	94.25	23	P	P	14 32 10.6 +1.3
H25L	Birch Creek	94.34	12	P	P	14 32 11.2 +1.7
MAYO	Mayo, Yukon	94.35	17	P	P	14 32 11.5 +1.8
F22K	John River	94.39	9	P	P	14 32 11.1 +1.3
C18K	Utukok River	94.40	6	IAMB	IAMB	14 32 46.9
C18K	Utukok River	94.40	6	P	P	14 32 11.5 +1.7
G24K	Hadwenzic Riv	94.42	11	P	P	14 32 11.5 +1.6
EOLD	Coldfoot	94.44	10	P	P	14 32 11.5 +1.5
C20K	Nigu River	94.56	8	P	P	14 32 11.9 +1.3
D19K	Kuna River	94.56	7	IAMB	IAMB	14 32 46.8
D19K	Kuna River	94.56	7	P	P	14 32 11.9 +1.3
I27K	Kandik River	94.62	14	P	P	14 32 12.1 +1.2
G25K	Bearman Lake	94.73	12	P	P	14 32 12.5 +1.2
ATAH	Atahualpa	94.81	100	LR	LR	15 07 09.5
I28M	Miner Creek	94.87	15	P	P	14 32 13.0 +0.8
MMPY	Sheldon Lake	94.90	19	P	P	14 32 13.5 +1.2
D20K	Etluk River	94.94	7	P	P	14 32 13.9 +1.7
C19K	Lookout Ridge	95.00	6	IAMB	IAMB	14 32 50.1
C19K	Lookout Ridge	95.00	6	P	P	14 32 14.1 +1.5
E21K	Kilikil River	95.01	8	P	P	14 32 13.9 +1.2
E22K	Anaktuvuk Pass	95.03	9	P	P	14 32 13.5 +0.8
J30M	Hart River	95.03	16	P	P	14 32 14.1 +1.2
TGTM	Hyland Airport	95.03	21	P	P	14 32 14.3 +1.4
B18K	Kokolik River	95.05	5	P	P	14 32 13.7 +1.0
F24K	Squaw Lake	95.08	11	P	P	14 32 13.9 +0.9
BEAV	Fort Liard	95.16	23	P	P	14 32 14.4 +0.9
H27K	Steamboat Moun	95.18	14	P	P	14 32 14.3 +0.8
I29M	Ogilvie Camp	95.18	15	P	P	14 32 14.8 +1.4

E23K	Chandalar	95.29	10	P	P	14 32 14.7 +0.7
G26K	Porcupine Rive	95.33	13	P	P	14 32 14.9 +0.8
E24K	Your Creek	95.49	10	P	P	14 32 15.8 +1.0
KOTAN	Kotaneleele Air	95.50	24	P	P	14 32 15.5 +0.5
I30M	Mount Dempster	95.54	16	P	P	14 32 15.6 +0.4
F25K	Christian River	95.55	12	P	P	14 32 15.6 +0.5
C21K	Knifeblade Rid	95.58	8	P	P	14 32 16.4 +1.2
D22K	Aiyikay River	95.60	9	P	P	14 32 15.8 +0.5
TNCH	TengChong	95.63	295	IP	SKS	14 32 16.9 +0.2
TNCH				S	S	14 42 42.4 +2.4
TNCH				S	S	14 43 20.9 -1.2
G27K	Doyon Strip	95.64	13	P	P	14 32 16.6 +1.0
TOLK	Toolik Lake Re	95.83	10	P	P	14 32 17.3 +1.0
H29M	Whitestone	95.87	15	P	P	14 32 17.4 +0.8
F26K	Sheviek River	95.91	12	P	P	14 32 17.6 +0.9
A19K	Wainwright	95.93	5	P	P	14 32 17.7 +1.0
D23K	Nanushuk River	95.96	9	P	P	14 32 17.7 +0.8
B21K	Ikipikuk River	96.04	8	P	P	14 32 18.0 +0.8
B20K	Meade River	96.12	7	P	P	14 32 19.2 +1.7
LZH	Lanzhou	96.30	307	eP	SKS	14 32 20.1 +0.6
LZH				S	S	14 42 41.7 -1.3
LZH				S	S	14 43 24.7 -2.7
LZH	comp-Z, 2.1nm, 1.9s					
LZH	comp-Z, 1.80nm, 16.8s					
LZH	comp-Z, 1.30nm, 14.9s					
EPYK	Eagle Plains	96.38	15	P	P	14 32 18.6 -0.3
D24K	Happy Valley	96.41	10	P	P	14 32 19.6 +0.7
H31M	Peel River	96.52	16	P	P	14 32 20.3 +0.8
G29M	Pine Creek	96.52	14	P	P	14 32 21.6 +1.1
F28M	Old Crow	96.70	14	P	P	14 32 21.2 +0.9
C23K	Ikilikil River	96.77	9	P	P	14 32 21.9 +1.4
E27K	Coleen River	96.83	13	P	P	14 32 22.3 +1.4
YAK	Yakutsk	96.85	338	P	P	14 32 20.9 -0.1
B22K	Teshukpak Lake	96.86	8	P	P	14 32 22.4 +1.5
C24K	Franklin Bluff	96.94	10	P	P	14 32 22.8 +1.5
D25K	Kavik River	96.95	11	P	P	14 32 22.9 +1.5
G30M	Aloh Zraii Nji	96.99	15	P	P	14 32 22.5 +0.8
A22K	Sinclair Lake	97.30	7	P	Pdf	14 32 24.5 +1.6
G31M	Satir River	97.42	16	P	Pdf	14 32 24.8 +1.3
A21K	Barrow	97.43	7	P	Pdf	14 32 25.0 +1.5
E28M	Babbage River	97.60	13	P	P	14 32 25.0 +0.6
F30M	Barrier River	97.60	15	P	Pdf	14 32 25.9 +1.5
C27K	Jago River	97.67	11	P	Pdf	14 32 25.9 +1.2
C26K	Camden Bay	97.72	11	P	P	14 32 25.4 +0.6
E29M	Blow River	97.76	14	P	Pdf	14 32 26.2 +1.1
WRGL	Wriway	97.82	22	P	Pdf	14 32 26.2 +0.8
D27M	Malcolm River	97.85	12	P	Pdf	14 32 26.4 +0.9
F31M	Tsigitehich	97.95	16	IAMB	IAMB	14 33 51.8
D28M	Stokes Point	98.36	13	P	Pdf	14 32 28.8 +1.1
INK	Inuvik	98.68	15	LR	LR	15 09 51.3
INK	Inuvik	98.68	15	P	Pdf	14 32 30.2 +1.1
SONM	Songino Array	99.88	318	P	Pdf	14 32 34.2 -0.9
SONM	comp-Z, 0.6nm, 0.5s, baz=131, slow=4.2, SNR=5.5					14 48 55.4 -0.5
SONM	comp-Z, 0.7nm, 0.8s, baz=242, slow=3.1, SNR=3.8					15 15 51.7
YKA	Yellowknife Ar	100.52	25	PKKPbc	PKKPbc	14 48 53.4 -1.1
GTA	Gaotai	100.61	309	P	SKS	14 42 39.5 +0.9
GTA				S	S	14 43 06.0 +1.6
GTA	comp-Z, 6.0nm, 1.3s					
GTA	comp-Z, 7.6nm, 1.3s					
GTA	comp-Z, 1.20nm, 15.8s					
GTA	comp-Z, 1.00nm, 14.2s					
A36M	Sac Harbour	103.30	15	P	Pdf	14 32 50.1 +0.5
HYB	Hyderabad	109.89	280	ePdf	PKKPbc	14 33 20.6 +0.3
HYB				ePKKPbc	PKKPbc	14 37 52.4 +0.5
HYB				ePKKPbc	PKKPbc	14 37 51.6 -5.1
WUO	Urumqi	110.64	310	P	PKKPbc	14 37 27.0 -0.7
ZSN	Zaisan	113.44	313	ePKKPbc	PKKPbc	14 37 27.0 -0.7
ZALV	Zalesovo Beam	114.70	320	PKP	PKPpdf	14 37 28.1 -1.7
MKAR	Makanchi Array	115.03	312	P	PKPpdf	14 37 29.9 -0.9
MKAR	comp-Z, 3.0nm, 0.9s, baz=141, slow=0.8, SNR=12					14 38 07.8 -2.5
MKAR	comp-Z, 0.9nm, 0.7s, baz=178, slow=1.6, SNR=10					14 48 08.3 +0.3
MKAR	comp-Z, 1.3nm, 0.9s, baz=276, slow=3.9, SNR=5.5					14 37 32.0 -1.5
SHLS	Shalkode	116.32	307	PKP	PKPpdf	14 37 33.1 -1.0
UZB	Uzymbulak	116.64	307	ePKP	PKPpdf	14 37 33.9 -0.8
KPKS	Kokpek	116.94	308	ePKP	PKPpdf	14 38 44.5 -1.7
ZHN	Zhishiske	117.06	307	ePKP	PKPpdf	14 37 34.1 -0.9
WUO	Wuwei	121.76	315	ePKP	PKPpdf	14 37 42.7 -0.5
MDOK	Medeo	118.06	307	ePKP	PKPpdf	14 37 36.0 -0.9
KURBB	Kurchatov Arr	118.07	316	PKP	PKPpdf	14 37 35.9 -0.6
KURBB	comp-Z, 4.6nm, 1.0s, baz=100, slow=2.0, SNR=18					14 38 12.8 -0.9
KURBB	comp-Z, 0.8nm, 0.6s, baz=108, slow=3.9, SNR=1.6					14 37 36.2 -0.8
KUU	Kurty	118.16	308	ePKP	PKPpdf	14 37 37.2 -0.7
SGDS	Segyndy	119.85	307	ePKP	PKPpdf	14 37 39.5 -0.8
BTSL	Baital	120.46	309	ePKP	PKPpdf	14 37 40.5 -0.8
BZSN	Bazenski	121.76	315	ePKP	PKPpdf	14 37 42.7 -0.5
NEEM	North Greenlan	122.10	12	P	PKPpdf	14 37 43.6 -0.3
DZA	Taraz	122.18	306	ePKP	PKPpdf	14 37 43.8 -1.0
BOSA	Boshof	122.23	203	PKP	PKPpdf	14 37 46.1 +0.6
BVAR	Borovoye Array	123.22	318	PKP	PKPpdf	14 37 46.2 -0.1
BVAR	comp-Z, 7.3nm, 1.6s, baz=35, slow=3.0, SNR=29					14 37 46.1 -0.7
BRLS	Boroday	123.29	306	ePKP	PKPpdf	14 37 46.1 -0.7
CHM	Chimkent	123.39	305	ePKP	PKPpdf	14 37 46.1 -0.9
SPITS	Spitsbergen Ar	126.69	357	PKP	PKPpdf	14 37 51.7 -0.6
DAG	Danmarks Havn	127.41	6	P	PKPpdf	14 37 51.7 -2.0
DBG	Daneborg	129.47	8	P	PKPpdf	14 37 56.9 -0.7
ARCES	ARCES Array B	133.77	349	PKP	PKPpdf	14 38 05.3 -0.6
FINES	FINES Array B	140.58	343	PKKP	PKPpre	14 38 11.2
FINES	comp-Z, 2.1nm, 0.7s, baz=116, slow=8.7, SNR=9.5					14 41 43.9 +1.9
FINES						







8d 15h

Table of astronomical observations for 8d 15h, listing station names (e.g., WRA, WRAB), coordinates, and observation details.

2019 JUN

Main table of astronomical observations for 2019 JUN, listing station names (e.g., WMO, ILAR), coordinates, and observation details.

436

Table of astronomical observations for 436, listing station names (e.g., SHO, SHK), coordinates, and observation details.



Table of astronomical observations for 8d 16h, listing stations like ZVK, BZS, KHC, etc., with columns for station name, time, and other parameters.

Table of astronomical observations for 2019 JUN, listing stations like EVO, MOE, etc., with columns for station name, time, and other parameters.

WEL 08 15:44:37.2+0.7, 44'S, 16°8'E, h5km, M3.7/12, ML3.9/17, MLV3.7/12, Error ellipse: s-maj=8.6km

Table of astronomical observations for WEL, listing stations like MSZ, MSZ, etc., with columns for station name, time, and other parameters.

IDC 08 16:00:59.6+0.6, 9.62N, 126°41'E, h0km, mb4.1/21, mbtmp4.1/22, ML4.0/1, MS3.5/15, Error ellipse: s-maj=27.2km s-min=12.6km az=75.0

NEIC 08 16:01:05.8+2.0, 9.90N, 07°126.5'E, 0.1, h35km, 2km, mb4.5/18, Error ellipse: s-maj=21.3km s-min=6.1km

DJA 08 16:01:13.1+1.2, 9°N, 22°12'7"E, h13km, 28km, M4.8/7, mb4.7/7, mb5.2/2, MLV4.8/6, Mw(mb)4.6/2

ISC 08 16:01:05.2+0.5, 9.79N, 05°126.5'E, 0.1, h35km, n82, c1847/14, mb4.3/38, MS3.6/14, 1C-1D, Mindanao

Table of astronomical observations for IDC, NEIC, DJA, and ISC, listing stations like DAV, DAV, etc., with columns for station name, time, and other parameters.

Table of astronomical observations for 2019 JUN, listing stations like GTA, GTA, etc., with columns for station name, time, and other parameters.

DJA 08 16:09:44.4+0.4, 1°N, 2°12'7"E, h159km, 5km, M3.6/12, mb3.5/2, MLV3.6/12, Halmahera

Table of astronomical observations for DJA, listing stations like TMT, SGI, etc., with columns for station name, time, and other parameters.

TRN 08 16:15:43.5, 15°41N, 61°28W, h172km, Md3.5, Dominica, Leeward Islands

Table of astronomical observations for TRN, listing stations like DSLB, MAGL, etc., with columns for station name, time, and other parameters.

Table with columns: BIM, Bigot, 0.91 167 eP, Pn, 16 16 11.2 +1.4, etc.

WEL 08 16:18:33.0+0.7, 44°54'16.8E, h5km, M3.7/19, ML3.9/16, MLV3.7/19, Error ellipse: s-maj=6.8km s-min=3.3km az=122.6, confirmed, South Island

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

IDC 08 16:24:56.9-1.8 6'11S: 129.48E, h0km, mb3.7/2, mbtm3.9/5, ML4.2/3, Error ellipse: s-maj=83.7km s-min=25.4km az=76.0

ISC 08 16:25:16.5-1.3 6.98S: 0.10x129.7E: 0.1, h200km, n11, #304/13, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

IDC 08 16:29:04.2-2.0 6'54S: 130.41E, h0km, mb3.9/3, mbtm3.9/5, ML3.9/1, Error ellipse: s-maj=222.6km s-min=23.1km az=77.0

ISC 08 16:29:16.7-1.4 7.35S: 0.1x129.7E: 0.2, h100km, n6, #249/8, mb3.8/3, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

IDC 08 16:31:28.6-1.0 10'03N: 126'34E, h0km, mb3.9/13, mbtm3.9/14, ML4.3/1, MS3.4/5, Error ellipse: s-maj=33.1km s-min=20.9km az=89.0

NEIC 08 16:31:32.4+2.3 9.77N: 0.07x126.4E: 0.2, h35km, 1km, mb4.5/11, Error ellipse: s-maj=30.2km s-min=11.6km az=96.0

ISC 08 16:31:32.2+0.5 9.79N: 0.07x126.4E: 0.2, h35km, n37, #159/32, mb4.0/18, Mindanao

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: MTN, Manton Dam, 22.97 168 P, P, 16 36 34.0 +0.2, etc.

NEIC 08 16:58:35.7-2.0 37'42N: 0.07x171.9E: 0.1, h130km, 12km, mb4.4/5, Error ellipse: s-maj=12.1km s-min=10.1km az=72.0

NINC 08 16:58:37.1+4.6 37'91N: 71'57E, h0km, mb4.7, mpv4.4, Error ellipse: s-maj=37.0km s-min=30.6km az=162.0

IDC 08 16:58:37.5+6.3 37'57N: 71'93E, h128km, 46km, mb3.5/6, mbtm3.9/10, Error ellipse: s-maj=69.1km s-min=38.2km az=147.0

ISC 08 16:58:34.1+0.7 37.31N: 0.05x171.99E: 0.07, h130km, n57, #170/65, mb4.1/8, 5C-1/2, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: MAKZ, Makanchi, 12.04 35 Pn, Pn, 17 01 21.4 +0.1, etc.

IDC 08 16:59:28.3-4.2 1.58N: 127.54E, h123km, 40km, mb3.6/10, mbtm4.0/12, Error ellipse: s-maj=35.3km s-min=12.8km az=74.0

NEIC 08 16:59:28.9-1.9 1.51N: 0.10x127.4E: 0.1, h129km, 8km, mb4.1/11, Error ellipse: s-maj=17.7km s-min=12.3km az=53.0

DJA 08 16:59:28.3+0.4 2'N: 4.2'N: 4.2'N: 12'7E: 1.1, h117km, 8km, M4.2/13, mb4.9/4, mb4.4/6, MLV4.1/13, Mw(m)4.2/4

ISC 08 16:59:28.3+0.6 1.57N: 0.07x127.40E: 0.09, h128km, n43, #132/43, mb4.0/16, Halmahera

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

IDC 08 17:13:18.0-9.2 30'51N: 143.75E, h0km, mb3.3/2, mbtm3.3/3, ML2.5/1, Error ellipse: s-maj=339.9km s-min=35.8km az=70.0, Southeast of Honshu





PET	comp=Z,60nm,0.5s	A	A	18 15 25.8	
TEY	comp=Z,50nm,0.5s	PN	Pn	18 13 02.8 +4.3	
TEY	comp=E,100nm,1.4s		Pmax		
TEY	comp=Z,100nm,1.4s		Pmax		
TEY	comp=E,50nm,1.3s		Pmax		
TEY	comp=Z,60nm,1.3s		Pmax		
NKL	Nikolayevsk	10.05 325	ePN	Pn	18 13 03.4 -1.4
NKL	comp=N,55nm,1.2s		Pmax		
NKL	comp=E,420nm,1.3s		Pmax		
NKL	comp=Z,507nm,1.3s		MLR	MLR	
NKL	comp=E,11um,23.0s		MLR	MLR	
NKL	comp=N,3um,20.0s		MLR	MLR	
NKL	comp=Z,10um,22.0s		MLR	MLR	
NKL	Nikolayevsk	10.05 325	eP	Pn	18 13 03.4 -1.4
NKL	comp=Z,500nm,0.6s		AMB	AMB	
NKL	comp=Z,150nm,0.7s		eS	Sn	18 14 54.2 -1.8
NKL	comp=Z,150nm,0.7s		A	A	18 15 01.9
NKL	comp=Z,3um,22.0s		AMS	AMS	18 16 48.8
NKL	comp=Z,11um,22.0s		AMS	AMS	18 16 48.8
JMM	Marumori	10.17 227	Pn	Pn	18 13 03.8 -2.6
GRNR	Gornory	10.17 306	Pn	Pn	18 13 16.5 +2.3
GRNR	comp=E,10.0nm,1.2s		Pmax	Pmax	
GRNR	comp=N,6.0nm,1.1s		Pmax	Pmax	
GRNR	comp=Z,10.0nm,1.1s		MLR	MLR	
GRNR	comp=Z,680nm,16.0s		MLR	MLR	
MJB9	Matsu-Tunnel	12.52 230		Pn	18 13 37.3 -1.3
MAJO	Matsushiro	12.53 230		Pn	18 13 36.1 -2.5
MAJO	Matsushiro	12.53 230	iPN	Pn	18 13 37.0 -1.7
MJAR	Matsushiro Arr	12.53 230	P	Pn	18 13 36.9 -1.8
USA0B	Ussuriysk Arra	12.97 272	Pn	Pn	18 13 45.1 +0.4
USA0B	Ussuriysk Arra	12.97 272	iPN	Pn	18 13 45.2 +0.6
USRK	Ussuriysk Ar.	12.97 272	P	Pn	18 13 43.6 -1.0
USRK	Ussuriysk Ar.	12.97 272	P	Pn	18 13 42.0 -2.7
USRK	comp=Z,0.1nm,0.3s,baz=26,slow=15,SNR=22		LR	LR	18 18 49.3
USRK	comp=Z,4.2nm,1.0s		LR	LR	18 18 49.3
USRK	Ussuriysk Ar.	12.97 272	PN	Pn	18 13 43.6 -1.0
KLR	Kul'dur	13.13 294	P	Pn	18 13 45.1 -1.7
KLR	comp=Z,0.2nm,0.3s,baz=104,slow=13,SNR=42		LR	LR	18 19 08.1
KLR	comp=Z,1um,19.1s,baz=110,slow=39		LR	LR	18 19 08.1
KLR	comp=Z,3.1nm,1.1s		PN	Pn	18 13 49.0 +2.2
KLR	Kul'dur	13.13 294	ePN	Pn	18 13 49.0 +2.2
VLA	Vladivostok	13.13 294	eP	Pn	18 13 46.0 -0.8
BLL	Kuroka	13.29 267	iPN	Pn	18 13 49.2 +0.2
MSHR	Mys Shuitsa	13.96 266	iP	Pn	18 13 52.4 -2.1
MSHR	comp=Z,24nm,1.0s		Pmax	Pmax	
INU	Inuyama	14.06 230	Pn	Pn	18 13 57.1 -2.4
PSTR	Posyet	14.18 266	iP	Pn	18 14 00.0 -1.1
PSTR	Posyet	14.18 266	eP	Pn	18 14 00.0 -1.1
MA2	Magadan	14.37 1	Pn	Pn	18 14 00.4 -3.1
MA2	Magadan	14.37 1	P	Pn	18 14 03.1 -0.3
MA2	comp=Z,0.7nm,0.3s,baz=240,slow=8.1,SNR=4.3		LR	LR	18 19 39.2
MA2	comp=Z,632nm,18.8s,baz=176,slow=38		LR	LR	18 19 39.2
MA2	comp=Z,10.0nm,0.8s		LR	LR	18 19 39.2
MA2	Magadan	14.37 1	iP	Pn	18 14 03.1 -0.3
HJH2	Mitsune	14.51 217	Pn	Pn	18 14 01.0 -4.4
MDJ	Mudanjiang	14.59 275	P	Pn	18 14 06.9 +0.5
MDJ	comp=Z,1um,21.3s		PP	Pn	18 14 14.5 -0.2
MDJ	comp=Z,1um,21.3s		S	Pmax	18 16 50.1 +3.5
MDJ	comp=Z,13nm,1.0s		Pmax	Pmax	
MDJ	comp=Z,400nm,5.7s		Pmax	Pmax	
MDJ	comp=Z,2um,17.5s		LR	LR	
MDJ	comp=Z,2um,21.3s		LR	LR	
MDJ	comp=Z,2um,21.3s		LR	LR	
BNX	BinXian	15.96 280	iP	Pn	18 14 25.5 +1.4
BNX	comp=Z,13nm,1.2s		S	Pmax	18 17 20.6 +0.7
BNX	comp=Z,190nm,3.8s		Pmax	Pmax	
BNX	comp=Z,600nm,20.1s		LR	LR	
BNX	comp=Z,540nm,22.2s		LR	LR	
HEH	HeiHe	16.08 296	eP	Pn	18 14 27.2 +1.7
HEH	comp=Z,840nm,17.9s		PP	pP	18 14 41.3 +1.3
HEH	comp=Z,840nm,17.9s		PP	pP	18 14 42.6 -4.4
HEH	comp=Z,840nm,17.9s		S	Sn	18 17 26.4 +3.7
HEH	comp=Z,20nm,0.9s		Pmax	Pmax	
HEH	comp=Z,190nm,3.6s		LR	LR	
HEH	comp=Z,350nm,20.6s		LR	LR	
HEH	comp=Z,780nm,21.0s		LR	LR	
HEH	comp=Z,1um,20.4s		LR	LR	
JMA	Monohe	16.99 233	P	Pn	18 14 37.7 +0.6
ZEA	Zeya	17.08 308	eP	Pn	18 14 38.2 +0.1
ZEA	comp=E,20nm,1.3s		Pmax	Pmax	
ZEA	comp=N,20nm,1.0s		Pmax	Pmax	
ZEA	comp=Z,30nm,1.1s		Pmax	Pmax	
ZEA	Zeya	17.08 308	eP	Pn	18 14 35.5 -2.6
SHEM	Shemys Is, Ala	17.36 56	LR	LR	18 20 53.0
SHEM	comp=Z,63nm,22.0s,baz=286,slow=35		P	Pn	18 14 42.1 +0.7
SMY	Shemys	17.36 56	iP	Pn	18 14 42.1 +0.7
SMY	comp=Z,147nm,1.3s		IAMB	IAMB	
SMY	Shemys	17.36 56	P	Pn	18 14 42.1 +0.7
SMY	comp=Z,147nm,1.3s		Pmax	Pmax	
CN2	Changchun	17.67 274	eS	Pn	18 14 46.0 +0.7
CN2	comp=Z,660nm,17.0s		eS	Sn	18 17 57.7 -3.5
CN2	comp=Z,660nm,17.0s		eS	SnSn	18 18 21.6 +6.5
CN2	comp=Z,700nm,17.0s		LR	LR	
CN2	comp=Z,890nm,17.0s		LR	LR	
SEY	Seymchan	17.78 3	P	Pn	18 14 46.0 -0.5
SEY	comp=Z,0.5nm,0.3s,baz=172,slow=9.2,SNR=13		LR	LR	18 21 57.0
SEY	comp=Z,814nm,18.4s,baz=182,slow=38		LR	LR	18 21 57.0
SEY	comp=Z,7.9nm,0.9s		LR	LR	18 21 57.0
SEY	Seymchan	17.78 3	3cP	P	18 14 47.6 +0.9
SEY	comp=Z,9.0nm,1.0s		Pmax	Pmax	
KSR5	Korea Array	18.38 253	P	P	18 14 53.8 +0.3
KSR5	comp=Z,0.7nm,0.3s,baz=58,slow=10,SNR=63		PcP	PcP	18 19 23.6 +1.2

KS19	Wonju Array Si	18.39 253	P	P	18 14 52.9 -0.7
KSAR	Wonju Array Be	18.41 253	P	P	18 14 53.4 -0.4
JNU	Nakatsue	18.41 253	P	P	18 14 53.4 -0.4
JNU	Nakatsue	19.17 238	P	P	18 15 01.8 -0.5
JNU	Nakatsue	19.17 238	P	P	18 15 03.0 +0.8
JNU	comp=Z,1.1nm,0.3s,baz=289,slow=1.4,SNR=12		LR	LR	18 23 36.1
JNU	comp=Z,133nm,18.9s,baz=40,slow=40		LR	LR	18 23 36.1
JNU	comp=Z,11nm,0.9s		LR	LR	18 23 36.1
JCJ	Chichijima	19.19 202	P	LR	18 15 02.1 -0.3
JCJ	Chichijima	19.19 202	LR	P	18 24 14.0
INCN	Inchon	19.24 255	P	P	18 15 03.0 +0.1
INCN	Inchon	19.24 255	P	P	18 15 03.0 +0.1
INCN	comp=Z,26nm,1.0s		Pmax	Pmax	
TJN	Taejon	19.34 251	P	IAMB	18 15 03.5 -0.5
TJN	Taejon	19.34 251	IAMB	P	18 15 07.5
TJN	Taejon	19.34 251	iP	P	18 15 04.4 +0.4
YAK	Yakutsk	20.59 332	P	P	18 15 16.3 -1.0
YAK	Yakutsk	20.59 332	P	P	18 15 17.2 -0.2
YAK	comp=Z,289nm,1.1s,baz=101,slow=1.6,SNR=16		LR	LR	18 23 37.7
YAK	comp=Z,841nm,19.2s,baz=130,slow=38		LR	LR	18 23 37.7
YAK	Yakutsk	20.59 332	eP	P	18 15 16.6 -0.7
YAK	comp=Z,241nm,19.2s,baz=130,slow=38		P	P	18 15 16.6 -0.7
YAK	Yakutsk	20.59 332	eP	P	18 15 16.6 -0.7
YAK	comp=Z,241nm,19.2s,baz=130,slow=38		eS	S	18 19 03.5 -0.7
YAK	Yakutsk	20.59 332	e	S	18 19 26.5
YAK	Yakutsk	20.59 332	eS	SnSn	18 19 29.7 +3.1
YAK	Yakutsk	20.59 332	eS	S	18 26 38.4
YAK	comp=Z,224nm,0.9s		Pmax	Pmax	
YAK	comp=E,75nm,1.2s		Pmax	Pmax	
YAK	comp=N,87nm,1.1s		Pmax	Pmax	
YAK	comp=Z,202nm,1.5s		Pmax	Pmax	
YAK	comp=E,114nm,1.5s		Pmax	Pmax	
YAK	comp=N,167nm,1.6s		smax	smax	
YAK	comp=N,125nm,2.0s		smax	smax	
YAK	comp=E,48nm,2.3s		MLR	MLR	
YAK	comp=Z,895nm,22.0s		MLR	MLR	
YAK	comp=E,381nm,21.0s		MLR	MLR	
YAK	comp=N,416nm,20.0s		MLR	MLR	
DL2	Dalian	22.03 263	eP	P	18 15 16.6 -0.7
DL2	Dalian	22.03 263	S	S	18 15 33.1 +0.1
DL2	Dalian	22.03 263	S	S	18 15 33.2 +0.4
DL2	comp=N,44nm,1.0s		Pmax	Pmax	
DL2	comp=N,190nm,5.5s		Pmax	Pmax	
DL2	comp=N,490nm,24.1s		LR	LR	
DL2	comp=N,440nm,22.4s		LR	LR	
DL2	comp=N,590nm,23.4s		LR	LR	
KIWB	Kanaga Island	22.50 61	P	P	18 15 37.5 -0.4
XLT	XiLinHaoTe	24.21 279	eP	P	18 15 54.1 -0.6
ATKA	Atka Island	24.34 60	P	P	18 15 55.1 -0.5
BILL	Bilibino	24.36 15	P	P	18 15 50.0 -0.7
BILL	Bilibino	24.36 15	eP	Pmax	18 15 56.7 +1.1
BILL	comp=Z,3.0nm,0.6s		Pmax	Pmax	
BILL	comp=Z,667nm,18.0s		MLR	MLR	
BILL	Bilibino	24.36 15	eP	P	18 15 56.7 +1.1
JOW	Kunigami	25.37 231	P	IAMB	18 16 05.2 0.0
JOW	comp=Z,57nm,1.2s		IAMB	IAMB	18 16 10.1
JOW	Kunigami	25.37 231	LR	LR	18 26 21.4
JOW	comp=Z,153nm,20.5s,baz=70,slow=37		LR	LR	18 26 21.4
BJI	Beijing	25.41 270	P	S	18 16 05.0 -0.5
BJI	Beijing	25.41 270	S	S	18 20 24.8 -3.4
BJI	comp=Z,4.0nm,1.7s		Pmax	Pmax	
BJI	comp=Z,97nm,4.0s		Pmax	Pmax	
BJI	comp=Z,92nm,16.3s		LR	LR	
BJI	comp=Z,160nm,21.0s		LR	LR	
BJI	comp=Z,260nm,21.5s		LR	LR	
BJT	Bajiatuau	25.43 270	P	P	18 16 05.2 -0.4
BJT	comp=Z,11nm,0.9s		Pmax	Pmax	
TIA	Tai'an	26.46 262	P	P	18 16 15.4 +0.4
TIA	comp=Z,25nm,0.7s		Pmax	Pmax	
SPIA	Saint Paul Isl	27.12 50	P	P	18 16 19.8 -0.9
NJ2	Nanjing	27.58 252	eP	P	18 16 25.3 +0.2
NJ2	comp=Z,10.0nm,0.6s		Pmax	Pmax	
NJ2	comp=Z,290nm,18.5s		LR	LR	
NJ2	comp=Z,420nm,19.4s		LR	LR	
NJ2	comp=Z,550nm,20.4s		LR	LR	
HNS	HongShan	27.58 266	iP	P	18 16 25.0 -0.1
HNS	HongShan	27.58 266	S	S	18 21 03.6 +1.1
HNS	HongShan	27.58 266	S	S	18 21 03.6 +1.1
HNS	comp=Z,15nm,0.7s		Pmax	Pmax	
HNS	comp=Z,220nm,17.1s		LR	LR	
HNS	comp=Z,210nm,15.7s		LR	LR	
HNS	comp=Z,400nm,21.4s		LR	LR	
NIKH	Nikolski Hg	27.61 59	P	P	18 16 24.5 -0.7
GAMS	Gambell	28.25 35	P	P	18 16 30.2 -0.6
HHC	Hu-ho-hao-te	28.36 275	eP	P	18 16 32.0 -0.1
HHC	Hu-ho-hao-te	28.36 275	S	S	18 21 14.4 -0.5
HHC	comp=Z,18nm,0.7s		Pmax	Pmax	
HHC	comp=Z,100nm,4.1s		Pmax	Pmax	
HHC	comp=Z,150nm,13.5s		LR	LR	
HHC	comp=Z,510nm,14.3s		LR	LR	
HHC	comp=Z,840nm,14.1s		LR	LR	
TIXI	Tiksi	28.39 346	LR	LR	18 28 17.4
H1N2	WAKE ISLAND Hy	28.97 146	T	T	18 47 22.3
H1N1	WAKE ISLAND Hy	28.98 146	T	T	18 47 22.1
H1N1	WAKE ISLAND Hy	28.98 146	T	T	18 47 22.1
H1N1	WAKE ISLAND Hy	28.98 146	T	T	18 47 19.2
UNV	Unalaska Valle	29.01 57	P	P	18 16 36.9 -0.7
TIY	Taiyuan	29.04 268	P	P	18 16 39.0 +0.8
TIY	Taiyuan	29.04 268	S	S	18 21 30.9 +5.2
TIY	comp=Z,120nm,5.6s		Pmax	Pmax	
TIY	comp=Z,170nm,20.6s		LR	LR	
TIY	comp=Z,250nm,22.7s		LR	LR	
TIY	comp=Z,330nm,19.2s		LR	LR	
ULN	Ulaanbaatar	29.48 291	iP	P	18 16 42.1 0.0
ULN	Ulaanbaatar	29.48 291	P	P	18 16 42.1 0.0
ULN	Ulaanbaatar	29.48 291	eP	P	18 16 42.1 0.0
ULN	Ulaanbaatar	29.48 291	eP	S	18 17 03.8 +1.0

8d 18h

E18K	Tukpahleair C	33.81	32	P	P	18 17 18.9	-0.8
K17K	Iditarod	33.85	40	P	P	18 17 21.0	+1.0
K17K	Iditarod	33.85	40	P	P	18 17 18.8	-1.2
C18K	Utukok River	33.96	29	P	P	18 17 21.1	+0.1
C18K	comp=Z,21nm,1.1s			IAmb	IAmb	18 17 22.1	
C18K	Utukok River	33.96	29	P	P	18 19 58.7	+0.8
F18K	Selawik	33.96	33	P	P	18 17 20.0	-1.0
B18K	Kokolik River	33.99	28	P	P	18 17 20.4	-0.8
R16K	Pilot Point	33.99	50	P	P	18 17 19.8	-1.5
CNSH	ChangSha	33.99	253	P	P	18 17 21.7	+0.1
M17K	Holifna River	34.13	43	P	P	18 17 23.5	+1.0
M17K	comp=Z,11nm,0.9s			IAmb	IAmb	18 17 24.8	
M17K	Holifna River	34.13	43	P	P	18 17 21.1	-1.4
H18K	Honhosa River	34.18	36	P	P	18 17 22.2	-0.6
G18K	Tagagawik	34.20	35	P	P	18 17 23.4	+0.4
G18K	comp=Z,15nm,0.9s			IAmb	IAmb	18 17 24.7	
G18K	Tagagawik	34.20	35	P	P	18 17 22.1	-0.9
N17K	Nushagak Hills	34.21	44	P	P	18 17 23.8	+0.6
N17K	Nushagak Hills	34.21	44	P	P	18 17 22.4	-0.8
O17K	Koliganeg Bris	34.23	46	P	P	18 17 22.6	-0.7
A19K	Wainwright	34.52	27	P	P	18 17 25.2	-0.4
L18K	Granite Mouna	34.55	41	P	P	18 17 26.3	+0.3
L18K	Granite Mouna	34.55	41	P	P	18 17 25.2	-0.9
P17K	Kivchak River	34.56	47	P	P	18 17 25.6	-0.6
J18K	Innoko River	34.65	39	P	P	18 17 27.1	+0.1
J18K	Innoko River	34.65	39	P	P	18 17 25.5	-1.4
C19K	Lookout Ridge	34.65	29	P	P	18 17 27.6	+0.6
C19K	Lookout Ridge	34.65	29	P	P	18 17 26.3	-0.7
GCSA	Galena City Sc	34.74	37	P	P	18 17 26.3	-1.3
F19K	Shalercukik Mo	34.74	33	P	P	18 17 27.4	-0.3
F19K	Shalercukik Mo	34.74	33	P	P	18 20 00.5	+0.5
F19K	Shalercukik Mo	34.74	33	P	P	18 17 27.0	-0.7
N18K	Kilae Creek	34.85	44	P	P	18 17 28.5	-0.3
N18K	comp=Z,16nm,1.2s			IAmb	IAmb	18 17 31.3	
N18K	Kilae Creek	34.85	44	P	P	18 17 27.7	-1.0
O17K	Contact Creek	34.87	48	P	P	18 17 27.9	-1.1
G19K	Purcell Mouna	34.88	34	P	P	18 17 28.6	-0.2
G19K	Purcell Mouna	34.88	34	P	P	18 20 01.5	+1.0
G19K	Purcell Mouna	34.88	34	P	P	18 17 28.5	-0.4
M18K	Stony River	34.91	43	P	P	18 17 29.0	-0.2
D19K	Kuna River	35.00	30	P	P	18 17 29.2	-0.7
H19K	Roundabout Mou	35.03	36	P	P	18 17 30.7	+0.5
H19K	Roundabout Mou	35.03	36	P	P	18 17 30.0	-0.2
ENH	Enshi	35.06	259	P	P	18 17 30.0	-0.9
ENH	Enshi	35.06	259	P	P	18 20 01.9	+0.2
ENH	Redstone River	35.08	32	P	P	18 17 30.1	-0.5
ACHA	Angle Creek He	35.17	48	P	P	18 17 31.8	+0.3
ACHA	comp=Z,33nm,1.8s			IAmb	IAmb	18 18 24.4	
P18K	Big Mountain,	35.18	46	P	P	18 17 30.8	-0.8
CHIR	Chirikof Islan	35.18	53	P	P	18 17 31.7	+0.1
CHIR	Chirikof Islan	35.18	53	P	P	18 17 30.9	-0.7
O18K	Koktuh Hills	35.18	46	P	P	18 17 30.8	-0.8
J19K	Poorman	35.19	38	P	P	18 17 31.9	+0.4
J19K	comp=Z,11nm,1.0s			IAmb	IAmb	18 17 33.0	
J19K	Poorman	35.19	38	P	P	18 17 31.4	-0.2
Q18K	Katmai Hardscr	35.31	48	P	P	18 17 31.8	-1.0
L19K	White Mountain	35.40	42	P	P	18 17 33.8	+0.3
L19K	White Mountain	35.40	42	P	P	18 20 02.9	+0.7
L19K	White Mountain	35.40	42	P	P	18 17 32.8	-0.6
N19K	Bonanza Creek	35.54	44	P	P	18 17 35.2	+0.4
N19K	Bonanza Creek	35.54	44	P	P	18 20 03.0	+0.4
N19K	Bonanza Creek	35.54	44	P	P	18 17 34.1	-0.7
F20K	Avaraart Lake	35.57	33	P	P	18 17 35.0	+0.2
F20K	Avaraart Lake	35.57	33	P	P	18 20 03.3	+0.8
F20K	Avaraart Lake	35.57	33	P	P	18 17 33.9	-0.9
D20K	Etiyuk River	35.59	30	P	P	18 17 34.6	-0.4
M19K	Big River Lodg	35.61	42	P	P	18 17 35.8	+0.5
M19K	Big River Lodg	35.61	42	P	P	18 20 04.0	+1.3
M19K	Big River Lodg	35.61	42	P	P	18 17 35.2	-0.1
E20K	Nigu River	35.64	31	P	P	18 17 35.3	-0.2
R18K	Karluk	35.67	50	P	P	18 17 35.5	-0.3
H20K	Aotleneega Mo	35.67	36	P	P	18 17 35.8	+0.1
B20K	Meade River	35.73	28	P	P	18 17 35.6	-0.5
I20K	Naaghedenecel	35.76	37	P	P	18 17 42.7	
I20K	Naaghedenecel	35.76	37	P	P	18 17 36.4	-0.1
K20K	Telida	35.82	40	P	P	18 17 37.2	+0.2
J20K	Nowinta River	35.85	38	P	P	18 20 04.4	+1.0
J20K	Nowinta River	35.85	38	P	P	18 17 36.8	-0.4
L20K	Farewell, AK	35.87	41	P	P	18 17 37.3	-0.2
LZH	Lanzhou	35.88	272	eP	S	18 17 38.5	+0.5
LZH	Lanzhou			S	S	18 23 11.5	-0.6
LZH	Lanzhou			S	S	18 23 38.4	+2.9
LZH	comp=Z,34nm,1.4s			pmax	pmax		
LZH	comp=Z,190nm,4.3s			pmax	pmax		
LZH	comp=Z,250nm,17.1s			LR	LR		
LZH	comp=Z,290nm,15.2s			LR	LR		
LZH	comp=Z,440nm,16.8s			LR	LR		
SII	Sitkinak Islan	35.91	51	P	P	18 17 37.8	0.0
SII	Sitkinak Islan	35.91	51	P	P	18 17 37.8	0.0
Q19K	Cape Douglas,	36.01	47	P	P	18 17 38.3	-0.4
P19K	Oil Pt	36.19	46	P	P	18 17 40.7	+0.5
IMAR	Indian Mounai	36.20	35	P	P	18 17 40.2	0.0
IMAR	Indian Mounai	36.20	35	P	P	18 20 05.3	+0.9
M20K	Styx River	36.20	42	P	P	18 17 41.2	+0.8
OHAK	Old Harbor	36.33	50	IAmb	IAmb	18 17 42.2	
OHAK	Old Harbor	36.33	50	P	P	18 20 05.4	+0.5
OHAK	Old Harbor	36.33	50	P	P	18 17 41.2	-0.2
C21K	Knifeblade Rid	36.33	30	P	P	18 17 41.8	+0.5
G21K	Allakaket	36.36	34	P	P	18 17 43.5	
G21K	Allakaket	36.36	34	P	P	18 17 41.2	-0.4

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F21K	Alatna River	36.47	33	P	P	18 20 06.0	+0.8
F21K	Alatna River	36.47	33	P	P	18 17 42.9	+0.4
E21K	Kiklik River	36.48	31	P	P	18 17 42.5	-0.2
B21K	Ikpikpuk River	36.49	29	P	P	18 17 43.3	+0.7
B21K	Ikpikpuk River	36.49	29	P	P	18 17 42.8	+0.2
H21K	Melozitna Rive	36.55	36	IAmb	IAmb	18 17 45.0	
H21K	Melozitna Rive	36.55	36	P	P	18 20 06.6	+1.1
H21K	Melozitna Rive	36.55	36	P	P	18 17 44.1	+0.8
N20K	Mount Spurr	36.65	43	P	P	18 17 44.9	+0.7
SPCR	Spurr Chakacha	36.65	43	P	P	18 17 44.7	+0.5
KDKA	Kodiak Island	36.65	49	P	P	18 17 43.8	-0.3
KDKA	Kodiak Island	36.65	49	P	P	18 20 06.2	+0.4
KDKA	Kodiak Island	36.65	49	P	P	18 17 43.2	-0.3
KDKA	Kodiak Island	36.65	49	P	P	18 20 06.2	
KDKA	Kodiak Island	36.65	49	P	P	18 17 44.1	0.0
KDKA	Kodiak Island	36.65	49	P	P	18 17 44.1	0.0
PPLA	Kudik Island	36.66	40	P	P	18 17 44.9	+0.5
Q20K	Shuyak Island	36.68	48	P	P	18 17 44.3	-0.1
A22K	Sinclair Lake	36.70	27	P	P	18 17 44.6	+0.2
CAST	Castle Rocks	36.72	40	P	P	18 17 46.0	+1.3
CAST	Castle Rocks	36.72	40	P	P	18 17 47.1	
CAST	Castle Rocks	36.72	40	P	P	18 17 45.0	+0.3
SPU	Mount Spurr	36.73	43	IAmb	IAmb	18 17 47.2	
STLK	Strandline Lak	36.83	43	P	P	18 17 46.8	+1.1
STLK	Strandline Lak	36.83	43	P	P	18 17 48.0	
I21K	Tanana	36.85	37	IAmb	IAmb	18 17 47.9	
I21K	Tanana	36.85	37	P	P	18 17 46.4	+0.6
SKT	Skwentna	36.96	42	P	P	18 17 47.6	+0.9
F22K	John River	37.01	33	P	P	18 17 47.4	+0.3
D22K	Ayilyak River	37.02	30	P	P	18 17 47.7	+0.5
D22K	Ayilyak River	37.02	30	P	P	18 17 47.5	+0.3
B22K	Teshchepuk Lake	37.05	28	IAmb	IAmb	18 17 48.2	
B22K	Teshchepuk Lake	37.05	28	P	P	18 17 47.7	+0.4
H22K	Ishlatina Cre	37.16	35	P	P	18 17 49.0	+0.7
GTA	Gaotai	37.18	279	eP	P	18 17 49.1	+0.1
GTA	Gaotai			pP	pP	18 18 03.0	0.0
GTA	Gaotai			pP	pP	18 20 09.1	+1.1
GTA	Gaotai			S	S	18 23 32.5	+0.7
GTA	Gaotai			pP	pP	18 23 57.8	+1.4
GTA	comp=Z,12nm,0.7s			LR	LR		
GTA	comp=Z,350nm,15.6s			LR	LR		
GTA	comp=Z,190nm,17.4s			LR	LR		
GTA	comp=Z,340nm,16.7s			LR	LR		
G22K	Bettes	37.20	34	P	P	18 17 49.1	+0.5
E22K	Anaktuvuk Pass	37.23	32	P	P	18 17 49.9	+0.9
BPWA	Bear Paw Mtn,	37.23	38	IAmb	IAmb	18 17 51.1	
BPWA	Bear Paw Mtn,	37.23	38	P	P	18 17 50.1	+1.1
KTH	Kantishna Hill	37.24	39	P	P	18 17 50.0	+0.8
SUA	Susitna One	37.35	43	P	P	18 17 50.3	+0.1
MLY	Manley	37.37	37	P	P	18 17 49.7	-0.5
MLY	Manley	37.37	37	P	P	18 20 08.9	+0.9
MLY	Manley	37.37	37	P	P	18 17 51.3	+1.1
BRSE	Bradley Lake S	37.45	46	P	P	18 17 52.1	+1.3
TRF	Thorofare Moun	37.53	39	IAmb			

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like BERG, M26K, M26K, E27K, MCARA, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like HYT, N30M, P29M, G31M, G31M, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like CHTO, CHTO, BEAVL, CM31, CM31, etc.





8d 19h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Alice Springs, Warramunga Arr, Matsushiro Arr, Asahikawa, Mina Array Bea, Kodiak Island, Kuldur, Eielson Arr, La Paz, Malin Array Bea, Keskin Array B.

CGC 08 18:36:59.53:0.15:90N:95.22W, h57km, 147km, MD4.3, ML3.5

MEX 08 18:36:59.7:0.9, 15:48N:95.07W, h16km, 15km, MD4.3

ISC 08 18:36:58.0:1.2, 15:51N:0.05:95.11W:0.02, h44km, 46km, n39, c225/65, Near coast of Oaxaca

Main table for 8d 19h section, listing station codes, names, azimuths, phase IDs, times, and residuals. Includes stations like Huatulco, Comitan, Pavencul, Sonotecomapan, Pinedale Array, etc.

MEX 08 18:37:51.7:0.5, 16:86N:100.48W, h5km, 6km, MD3.3, Near coast of Guerrero

Table for MEX 08 18:37:51.7:0.5, 16:86N:100.48W, listing station codes, names, azimuths, phase IDs, times, and residuals.

NEIC 08 18:41:29.6:1.4, 16:1S:0.2:177.2W:0.1, h43km, 11km, mb4.4/17, Error ellipse: s-maj=28.4km s-min=18.2km az=184.0

ISC 08 18:41:31.6:2.4, 15:66S:177.66W, h440km, 25km, mb3.2/7, mbmp4.0/8, Error ellipse: s-maj=36.7km s-min=20.2km az=152.0

ISC 08 18:41:30.7:0.7, 16:1S:0.2:177.3W:0.1, h450km, n31, c1523/31, mb4.2/16, Fiji Islands region

Table for ISC 08 18:41:30.7:0.7, 16:1S:0.2:177.3W:0.1, listing station codes, names, azimuths, phase IDs, times, and residuals.

2019 JUN

Main table for 2019 JUN section, listing station codes, names, azimuths, phase IDs, times, and residuals. Includes stations like Alice Springs, Warramunga Arr, Eielson Arr, Warramunga Arr, etc.

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Table with columns: TXAR, Station Name, Azimuth, Phase ID, Time, Res. Includes station Warramunga Arr.

baz=6.3, slow=29

DJA 08 19:24:14.5:0.4, 12.5S:4.11E, h10km, M4.3/15, mb4.4/9, MLV4.3/15

IDC 08 19:24:21.8:3.6, 11.30S:118.47E, h0km, mb3.3/2, mbtmp3.3/4, ML3.4/2, Error ellipse: s-maj=258.8km

ISC 08 19:24:18.0:1.0, 11:15S:0.09:117.62E:0.06, h35km, n26, c1808/25, South of Sumbawa

Table for ISC 08 19:24:18.0:1.0, 11:15S:0.09:117.62E:0.06, listing station codes, names, azimuths, phase IDs, times, and residuals.

IDC 08 19:00:19.2:15.0, 20.72S:177.70W, h477km, 100km, mb2.7/3, mbtmp3.8/5, Error ellipse: s-maj=302.9km s-min=27.9km az=141.0, Fiji Islands region

Table for IDC 08 19:00:19.2:15.0, 20.72S:177.70W, listing station codes, names, azimuths, phase IDs, times, and residuals.

IDC 08 19:47:57.3:2.0, 5.56N:126.45E, h0km, mb3.5/4, mbtmp3.5/4, Error ellipse: s-maj=168.5km s-min=23.9km az=66.0, Mindanao

Table for IDC 08 19:47:57.3:2.0, 5.56N:126.45E, listing station codes, names, azimuths, phase IDs, times, and residuals.

IDC 08 19:48:26.2:0.8, 19:89N:121.41E, h0km, mb3.8/12, mbtmp3.8/13, ML3.6/1, MS3.2/9, Error ellipse: s-maj=33.7km s-min=16.8km az=72.0

NEIC 08 19:48:32.3:1.1, 19:92N:0.08:121.14E:0.10, h35km, 2km, mb4.5/22, Error ellipse: s-maj=15.5km s-min=13.1km az=91.0

JMA 08 19:48:36.0:0.9, 20.1N:4.5E, h20km, MV3.9/9, OI2, PHILIPPINE ISL, REGION

ISC 08 19:48:32.0:0.5, 19:92N:0.06:121.25E:0.08, h40km, n67, c1852/55, mb4.2/23, MS3.2/7, Philippine Islands region

Main table for 2019 JUN section, listing station codes, names, azimuths, phase IDs, times, and residuals. Includes stations like Waikabubak, Pangpang, Bang, Sumba, Denpasar, etc.



Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Alice Springs, Alice Springs, Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Loma Pena Alta, Samana, DR, Samana, DR, etc.

Table with columns: SDH, Striped Hills, 2.25 139, Pn, 20 20 40.4 +1.7, etc. Includes stations like Numbukl Pass, Forest Hills D, etc.

IDC 08 20:24:49.5:1.4, 64:398S:179:53E, h0km, mb3.4/4, mbmp4.4/5, ML4.0/1, MS4.2/31, Error ellipse: s-maj=58.9km s-min=21.6km az=67.0

NEIC 08 20:24:53.6:1.3, 65:3S:0.1:177.9E:0.4, h10km, 2km, mb4.6/5, Error ellipse: s-maj=37.1km s-min=6.6km az=54.0

GCMT 08 20:24:54.0:2.65:13S:0.0:179:16E:0.03, h21km, 1km, MW5.1/116, Moment Tensor Solution, s56, c69; s116, c178; Duration: 0 Moment tensor: Scale 10^16Nm; Mn-1.23e-17; Mw0.53e-16; Mw-4.60e-13; Mw-1.28e-24; Mw-0.99e-10; Mw-0.60e-25; Best double couple: Mw=48.00e+016 NP1:0.320,00000; 875,00000; lambda=2.00000; NP2:0.51,00000; 389,00000; lambda=1.65,00000; Principal axes: T 6.1240, P1g0.0000; Azm185.0000; N -1.2860, P1g75.0000; Azm56.0000; P -4.8380, P1g12.0000; Azm277.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s.

Triangular moment-rate function

ISC 08 20:24:50.9:0.8, 65:1S:0.1x179:1E:0.3, h10km, n74, s1506/29, mb4.4/9, MS4.2/31, 4C, Balleny Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Scott Base, Vanda, Vanda, etc.

IDC 08 20:00:51.3:2.5, 15:96Sx174:26W, h0km, mb3.9/3, mbmp3.9/3, MS3.7/20, Error ellipse: s-maj=67.9km s-min=51.2km az=24.0, Tonga Islands

NIED 08 20:16:39.0, 35:93N:134:87E, h17km, MW3.3, Moment Tensor Solution, s3 Moment tensor: Scale 10^14Nm; Mn-0.34; Mw0.17; Mw0.17; Mw-0.20; Mw-1.06; Mw0.15; Fault plane solution: Ms1.08000x10^14 NP1:0.00000; 881,00000; lambda.4.00000; NP2:0.270,00000; 886,00000; lambda.171,00000

JMA 08 20:16:39.0:0.0, 35:93N:0.2:134:87E:0.09, h17km, MD3.4/40, MV3.6/40, ND, NW OFF KINKI DISTRICT, Western Honshu

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Yasaka, Yasaka, Kasumi, etc.

NEIC 08 20:01:02.1:4, 38:38N:0:02:118:19W:0.02, h14km, 6km, Error ellipse: s-maj=3.5km s-min=0.8km az=210.0

REN 08 20:01:01.5:1.7, 38:35N:0:02:118:19W:0.02, h11km, 3km, ML2.6/11, ML2.4/54(NEIC), Error ellipse: s-maj=3.7km s-min=2.0km az=192.0, California-Nevada border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Mina Array Sit, NV11, NV11, etc.

NEIC 08 20:11:29.2:0, 1:48N:126:96E, h0km, mb3.5/4, mbmp3.5/4, MS3.4/2, Error ellipse: s-maj=197.3km s-min=22.3km az=67.0

DJA 08 20:11:35.0:0.7, 1:2N:12:7E:1, h27km, 7km, M3.5/11, mb3.4/1, ML3.5/11

ISC 08 20:11:34.9:1.1, 5N:0:1:126:90E:0:08, h35km, n9, s19:10/10, mb3.4/4, Northern Molucca Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Terinate, Cibinong, Sanana, Namlea, Warramunga Arr, etc.

ISC 08 20:24:49.5:1.4, 64:398S:179:53E, h0km, mb3.4/4, mbmp4.4/5, ML4.0/1, MS4.2/31, Error ellipse: s-maj=58.9km s-min=21.6km az=67.0

NEIC 08 20:24:53.6:1.3, 65:3S:0.1:177.9E:0.4, h10km, 2km, mb4.6/5, Error ellipse: s-maj=37.1km s-min=6.6km az=54.0

GCMT 08 20:24:54.0:2.65:13S:0.0:179:16E:0.03, h21km, 1km, MW5.1/116, Moment Tensor Solution, s56, c69; s116, c178; Duration: 0 Moment tensor: Scale 10^16Nm; Mn-1.23e-17; Mw0.53e-16; Mw-4.60e-13; Mw-1.28e-24; Mw-0.99e-10; Mw-0.60e-25; Best double couple: Mw=48.00e+016 NP1:0.320,00000; 875,00000; lambda=2.00000; NP2:0.51,00000; 389,00000; lambda=1.65,00000; Principal axes: T 6.1240, P1g0.0000; Azm185.0000; N -1.2860, P1g75.0000; Azm56.0000; P -4.8380, P1g12.0000; Azm277.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s.

Triangular moment-rate function

ISC 08 20:24:50.9:0.8, 65:1S:0.1x179:1E:0.3, h10km, n74, s1506/29, mb4.4/9, MS4.2/31, 4C, Balleny Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Scott Base, Vanda, Vanda, Rata Peaks, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Alice Springs, Matushiro Arr, Lanzhou, Stephens Creek, Gaotai, WAKE ISLAND Hy, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Franklin, Bluff Creek, Liberty Lake, M Ranch, Wichita Mount, Battle Ridge, Depew, Carrier, Witchita Falls, Grand County, Sooner Cattle, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Kozani, Janina, Sarande, Iougenitsa, Kerkira, Kikotos Trika, Tyrnava, Valandou, Puka, Bajram Curri, etc.

BUJ 08 21:36:53.4, 5.27S; 154.70E, h150km, mb4.8/16, mb4.9/64
DCO 08 21:36:53.4, 0.6, 5.72S; 154.57E, h143km, mb4.3/22,
mbmp4.726, MS3.0/8, Error ellipse: s-maj=14.5km
s-min=1.0km, az=91.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Rabaul, Honiara, Niue, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Warramunga Arr, Warramunga Arr, Warramunga Arr, etc.

IDC 08 20:38:57.4, 2.2, 18.78N; 145.68E, h223km, 22km, mb3.2/7,
mbmp3.7/9, Error ellipse: s-maj=32.4km s-min=14.8km
az=92.0

NEIC 08 20:38:57.3, 0.7, 18.72N; 0.09; 145.8E; 0.2, h213km, 9km,
mb4.0/16, Error ellipse: s-maj=26.5km s-min=13.2km
az=91.0

ISC 08 20:38:55.6, 0.7, 18.82N; 0.08; 145.7E; 0.2, h200km, n30,
r=1520/30, mb3.7/14, Mariana Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Guam, Matushiro Arr, Matushiro, etc.

TIR 08 21:18:59.8, 40.50N; 20.77E, h8km, 1km, ML2.5/6
ATH 08 21:18:59.7, 40.54N; 20.79E, h9km, 1km, ML2.1/6, Manual
Solution by N.Liadopoulos First location: 2019/06/08

SKO 08 21:18:01.9, 40.16N; 20.8E, h30km, ML2.3
ISC 08 21:18:00.4, 0.9, 40.32N; 0.02; 20.81E; 0.3, h7km, 8km,
n24, c081/39, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Korea, Nestorio, Pent, etc.











AFAD 08:23:12:38.3,35:03N-27:22E,h9km,2km,ML2.4
ISC 08:23:12:28.0,9,34:26N,0:04:26.81E,0:04,h62km,15km,
n145,c#07/158,mb3,2/4,Crete

0.1nm,0.3s,baz=223,slow=9.8,SNR=3.1
Sn Sn 23 15 46:2+2.2

ULC Ulcinj 1.38 306 i Pg Pn 00 06 47.7 -1.3
ULC Ulcinj 1.38 306 i Pg Pn 00 06 47.4 -1.6

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like ZKR Zakros, KARP Karpathos, IACM Heraklion, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like MDBI Mazada, KRMI Paran Flat, GHAJ Ghor Haditha, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like Valandovo, Valandovo, Valandovo, etc.

SNET 09:00:02:14.7-0.3,17.03:90N,89:70W,h10km,3km,ML2.4
CATAC 09:00:02:15.7-0.3,14:12N,2:74E,h3km,1km,ML2,6/1

MLV2,6/21,Error ellipse: s-maj=3.8km s-min=3.0km
az=177.9,confirmed,El Salvador

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like LOAL Lomas de Alarc, NUBE Las Nubes, NUBE Las Nubes, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like SELS Selova, SELS Selova, SELS Selova, etc.

TIR 09:00:10:15.1,41:18N,20:73E,h1km,1km,ML2,3/6
SKO 09:00:10:15.1,41:10N,20:68E,h15km,ML2.4

PDG 09:00:10:15.2,0.8,41:11N,20:74E,h1km,1km,ML2,5/10,
Error ellipse: s-maj=4.3km s-min=4.1km az=90.0

ATH 09:00:10:17.5,41:12N,20:88E,h3km,1km,ML2,3/15,
Manual location by A.Andreou First location: 2019/06/09

00:11:27, This location: 2020/11/13 19:03:32 ML
Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 1 km;

Longitude uncertainty: 1 km
BEO 09:00:10:17.4,0.3,41:19N,20:74E,h0km,3km,ML2,2/8

ISC 09:00:10:17.2,0.8,41:17N,20:78E,0:02,h7km,5km,
n91,c#15/136,7C-4D,Albania

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like AKAS comp=N,48nm,0.4s, SLUM Salum, SLUM Salum, etc.

SKO 09:00:06:20.2,40:39N,20:64E,h15km,ML2.2
TIR 09:00:06:21.5,41:17N,20:71E,h2km,1km,ML2,0/5

PDG 09:00:06:21.9,0.5,41:17N,20:78E,h5km,2km,ML2,6/10,
Error ellipse: s-maj=4.4km s-min=1.5km az=90.0

ATH 09:00:06:23.1,41:19N,20:85E,h2km,1km,ML2,1/4,Manual
Solution by F.Gkika First location: 2019/06/09 00:07:37,

This location: 2021/06/08 15:28:45 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km

BEO 09:00:06:23.9,0.3,41:19N,20:74E,h0km,4km,ML2,0/8
ISC 09:00:06:23.3,0.8,41:17N,20:75E,0:02,h7km,5km,
n56,c#03/90,4C-7D,Albania

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, h, m, s, ISC, Time, Res. Includes stations like OHR Ohrid, OHR Ohrid, OHR Ohrid, etc.

Table with columns: PDG, Station Name, Time, Res, etc. Includes stations like Podgorica, Thessaloniki, Brajci-Budva, etc.

IDC 09 00:12:59.2+1.0, 1.03S; 129.22E, h0km, mb3.8/6, mbmp3.9/8, ML3.7/2, MS3.1/1, Error ellipse: s-maj=47.5km s-min=15.4km az=87.0

DJA 09 00:13:04.9-0.9, 1.2S; 12.9E, h31km, M3.9/11, MLV3.9/11

ISC 09 00:13:04.8-0.7, 1.01S; 0.05E; 128.89E; 0.04, h35km, n16, +159/23, mb3.9/6, Halmahera

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Masohi, Ternate, Sorong, etc.

NEIC 09 00:26:14.4+1.3, 38.63N; 0.08; 141.9E; 0.1, h59km, 13km, mb4.2/4, Error ellipse: s-maj=18.3km s-min=8.1km az=120.0

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Kesennumototy, Ofunato, Ouri, etc.

IDC 09 00:46:39.3+2.7, 1.84N; 128.05E, h0km, mb3.5/4, mbmp3.5/4, Error ellipse: s-maj=253.9km s-min=22.7km

DJA 09 00:46:51.1+0.4, 2.2N; 3.12E, h24km, 4km, M3.5/7, MLV3.5/7

ISC 09 00:46:51.6+1.2, 1.65N; 0.10E; 128.23E; 0.10, h100km, n7, +156/8, mb3.4/4, Halmahera

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Mare, Loyalty, Pines Island, etc.

NNC 09 01:03:21.9+3.5, 36.98N; 70.85E, h0km, mb3.9, mpv3.6, Error ellipse: s-maj=28.5km s-min=20.8km az=163.0

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Ala-Archa, Chumysh, Tokmak, etc.

IDC 09 01:13:11.8+1.0, 14.57N; 45.04W, h0km, mb3.8/6, mbmp3.8/6, MS3.0/7, Error ellipse: s-maj=31.6km s-min=26.3km az=122.0

ISC 09 01:13:13.7+0.9, 14.56N; 0.2; 45.0W; 0.2, h12km, n18, +086/6, mb3.8/5, MS3.1/6, Northern Mid-Atlantic Ridge

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Montagnes des, Arces, HFS, etc.

IDC 09 01:33:33.1+1.2, 53.70S; 140.57E, h0km, mb3.8/5, mbmp3.8/5, MS3.5/3, Error ellipse: s-maj=96.7km s-min=19.2km az=5.0

ISC 09 01:33:34.1+1.0, 53.7S; 0.1; 140.5E; 0.5, h10km, n28, +087/23, mb3.9/5, MS3.5/3, West of Macquarie Island

Table with columns: Code, Station Name, Time, Res, etc. Includes stations like Stephens Creek, Vanda, Cape Leeuwin, etc.

ISC 09 01:33:34.1+1.0, 53.7S; 0.1; 140.5E; 0.5, h10km, n28, +087/23, mb3.9/5, MS3.5/3, West of Macquarie Island



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Otaki Gorge, Holdsworth Sta, Paraparaua Pr, Mount Morrison, Kapiti Island, Parawai Farm, Moikau Station, Mangatoinaka R, Wellington, Te Maipa, Traveller, Tintock, South Karori, Lake Rotokare, etc.

ICD 09 02:36:49.1.0.2, 20'S05E-178.88W, h644km, 2.7km, mb2.7/3, mbtmp3.8/4, Error ellipse: s-maj=52.9km s-min=31.6km az=24.0, Fiji Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Nonsavu, Alice Springs, Warramunga Arr, South Pole Qui, Malin Array Be, etc.

ICD 09 02:36:49.1.0.2, 32'96N, 171.28E, h0km, mb3.9/15, mbtmp3.9/18, ML3.9/3, Error ellipse: s-maj=20.9km s-min=15.3km az=150

NEIC 09 02:36:53.6.2.5, 32'77N, 0109.71.23E, h0.4, h35km, 2km, mb4.2/24, Error ellipse: s-maj=15.4km s-min=5.7km az=187.0

NDI 09 02:37:12.0.0.8, 32'78N, 171.20E, h30km, ML4.1, MW4.2, mb4.2(NEIC)

ISC 09 02:36:50.3.0.5, 32'88N, 006.71.13E, h10km, n70, s=157/74, mb4.1/26, Pakistan

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Nil, Nilore, Kabul, Jammu, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Thein Dam, Simjan, Kundal, Ajmer, Batken, Kashi, Arslanbob, Naryn, Ala-Archa, Karatay Array, Kuratov Arra, Kurkuchatov, Borovoye Array, Zalesovo Array, Gaotai, PanZhihua, Ching Mai Arr, Keskin Array B, etc.

USRK Ussuriysk Arr. 47.93 58 P 02 45 27.9 -1.0

SENIN Lac Senin/Sane 49.70 305 P 02 45 42.7 0.0

SPITS Spitsbergen Arr. 51.04 347 P 02 45 52.7 +0.6

EKA Eskelmuir Arr. 54.99 318 P 02 46 21.5 -0.1

C19K Lookout Ridge 71.75 17 P 02 48 12.4 0.0

C23K Itkillik River 73.20 14 P 02 48 21.1 +0.1

BMAR Burnt Mountain 76.43 13 P 02 48 40.2 +0.4

ASAR Alice Springs 82.11 125 P 02 49 11.1 -0.3

ICD 09 02:45:09.1.2.5, 44.33S, 168.13E, h0km, mb3.9/3, mbtmp3.9/4, ML4.0/1, Error ellipse: s-maj=107.3km s-min=22.4km az=178.0

WEL 09 02:45:10.5.0.6, 44.33S, 168.13E, h5km, ML4.3/40, ML4.1/7, ML4.3/40, Error ellipse: s-maj=6.2km s-min=2.7km az=129.8, confirmed

WEL 09 02:45:10.5.0.6, 44.33S, 168.13E, h13km, ML4.3, Mw3.7, az=129.8, confirmed

Moment Tensor Solution, s3 Moment tensor: Scale 10^14 Nm; Mn:3.75; Mw:0.11; Mw:3.63; Mo:0.01; Mw:2.25; Ms:2.73; Fault plane solution: Ms:0.8000x10^14 NP1: 0.190,00000; 0.62,00000; 1.72,00000. NP2: 0.45,00000; 0.33,00000; 1.120,00000. Principal axes: T -5.4020, Plg68.0000; Azm64.0000; N 0.6390, Plg16.0000; Azm198.0000; P 4.7630, Plg15.0000; Azm293.0000; Stations used: JCZ EAZ LBZ REVERSE FAULTING NOU 09 02:45:10.3, 44.23S:168.13E, h7km, ML4.4/11, South Island, New Zealand

ISC 09 02:45:09.9.1.2, 44.33S, 0.03, 168.19E, 0.03, h11km, 9km, n79, s=100/85, mb3.5/3, South Island

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Milford Sound, Glenorchy, Neils Beach, Haast DOC Work, Mavora Lakes, Earnsclough, Deep Cove, Lake Benmore, Fox Glacier, Wether Hill, Otahua Downs, Tuapeka, Gaunt Creek, Timaru, Puysegur Point, Rata Peaks, etc.

WRA Warramunga Arr 37.20 300 P 02 52 20.7 -0.6

H01W1 Cape Leeuwin H 42.01 264 T 03 36 58.0

H01W2 Cape Leeuwin H 42.02 264 T 03 36 58.7

H01W3 Cape Leeuwin H 42.02 264 T 03 37 00.9

CMAR Ching Mai Arr 88.75 297 P 02 58 05.0 +1.2

H08S3 Diego Garcia H 88.76 261 T 04 35 46.6

H08S1 Diego Garcia H 88.78 261 T 04 35 47.6

H08S3 Diego Garcia H 88.78 261 T 04 35 50.8

BRTR Keskin Array B 146.27 278 PKPbc PKPbc 03 04 59.9 -0.5

ICD 09 02:47:35.8.9.3, 22.93S, 176.37W, h0km, mb3.6/2, mbtmp3.6/2, MS3.6/2, Error ellipse: s-maj=407.8km s-min=60.5km az=147.0, South of Fiji Islands

RAO Raoul Island 6.45 192 LR 03 36 58.0

ASAR Alice Springs 82.11 125 P 02 55 57.5 +0.2

WRA Warramunga Arr 45.81 264 P 02 55 59.2 -0.6

JAY Jayapura 46.27 290 LR 03 13 47.5

AKASG Malin Array Be 145.86 31 P 03 07 16.1 -0.3

ICD 09 03:07:23.2.1.4, 12.91N, 144.78E, h49km, 12km, mb3.5/8, mbtmp3.7/8, MS3.0/5, Error ellipse: s-maj=41.0km s-min=18.4km az=94.0

ISC 09 03:07:23.5.1.1, 12.91N, 0.1, 145.0E, 0.3, h57km, n17, s=071/11, mb3.7/8, MS3.0/4, South of Mariana Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GUMO, DAV, H1N1, H1N2, H1N3, etc.





Table with columns for station name, frequency, power, and other technical details. Includes stations like DAG, SUMG, ICESG, ANGG, FOO, AKN, UMMG, SUE, NSS, HSPB, BRBA, HYA, BRBB, KBS, KINGSBAY, NOR, SPB2, KULLO, SKAR, ODD1, KMY, BLSS, NB000, HOPEN, NOA, NC602, IDGL, KONO, ARAO, ARCES, ARCES2, OSL, SNART, SNART2, IVI, EKA, KEV, HOMB, HFS, ILTH, SGF, IGLA, TULEG, DSB, OUL, VAF, VAF2, RAF, KEF, APA, DEL, DEL2, FINES, FINES2, FINES3, FINES4, FINES5, FINES6, FINES7, FINES8, FINES9, FINES10, FINES11, FINES12, FINES13, FINES14, FINES15, FINES16, FINES17, FINES18, FINES19, FINES20, FINES21, FINES22, FINES23, FINES24, FINES25, FINES26, FINES27, FINES28, FINES29, FINES30, FINES31, FINES32, FINES33, FINES34, FINES35, FINES36, FINES37, FINES38, FINES39, FINES40, FINES41, FINES42, FINES43, FINES44, FINES45, FINES46, FINES47, FINES48, FINES49, FINES50, FINES51, FINES52, FINES53, FINES54, FINES55, FINES56, FINES57, FINES58, FINES59, FINES60, FINES61, FINES62, FINES63, FINES64, FINES65, FINES66, FINES67, FINES68, FINES69, FINES70, FINES71, FINES72, FINES73, FINES74, FINES75, FINES76, FINES77, FINES78, FINES79, FINES80, FINES81, FINES82, FINES83, FINES84, FINES85, FINES86, FINES87, FINES88, FINES89, FINES90, FINES91, FINES92, FINES93, FINES94, FINES95, FINES96, FINES97, FINES98, FINES99, FINES100.

Table with columns for station name, frequency, power, and other technical details. Includes stations like MEMBACH, VESU, VSA, BTNL, DOU, PBUR, ROSF, PUL, ILO, GKP, GKP2, GKP3, GKP4, GKP5, GKP6, GKP7, GKP8, GKP9, GKP10, GKP11, GKP12, GKP13, GKP14, GKP15, GKP16, GKP17, GKP18, GKP19, GKP20, GKP21, GKP22, GKP23, GKP24, GKP25, GKP26, GKP27, GKP28, GKP29, GKP30, GKP31, GKP32, GKP33, GKP34, GKP35, GKP36, GKP37, GKP38, GKP39, GKP40, GKP41, GKP42, GKP43, GKP44, GKP45, GKP46, GKP47, GKP48, GKP49, GKP50, GKP51, GKP52, GKP53, GKP54, GKP55, GKP56, GKP57, GKP58, GKP59, GKP60, GKP61, GKP62, GKP63, GKP64, GKP65, GKP66, GKP67, GKP68, GKP69, GKP70, GKP71, GKP72, GKP73, GKP74, GKP75, GKP76, GKP77, GKP78, GKP79, GKP80, GKP81, GKP82, GKP83, GKP84, GKP85, GKP86, GKP87, GKP88, GKP89, GKP90, GKP91, GKP92, GKP93, GKP94, GKP95, GKP96, GKP97, GKP98, GKP99, GKP100.

Table with columns for station name, frequency, power, and other technical details. Includes stations like KLMR, KUQ, KUQ2, GOPC, GOPC2, GOPC3, GOPC4, GOPC5, GOPC6, GOPC7, GOPC8, GOPC9, GOPC10, GOPC11, GOPC12, GOPC13, GOPC14, GOPC15, GOPC16, GOPC17, GOPC18, GOPC19, GOPC20, GOPC21, GOPC22, GOPC23, GOPC24, GOPC25, GOPC26, GOPC27, GOPC28, GOPC29, GOPC30, GOPC31, GOPC32, GOPC33, GOPC34, GOPC35, GOPC36, GOPC37, GOPC38, GOPC39, GOPC40, GOPC41, GOPC42, GOPC43, GOPC44, GOPC45, GOPC46, GOPC47, GOPC48, GOPC49, GOPC50, GOPC51, GOPC52, GOPC53, GOPC54, GOPC55, GOPC56, GOPC57, GOPC58, GOPC59, GOPC60, GOPC61, GOPC62, GOPC63, GOPC64, GOPC65, GOPC66, GOPC67, GOPC68, GOPC69, GOPC70, GOPC71, GOPC72, GOPC73, GOPC74, GOPC75, GOPC76, GOPC77, GOPC78, GOPC79, GOPC80, GOPC81, GOPC82, GOPC83, GOPC84, GOPC85, GOPC86, GOPC87, GOPC88, GOPC89, GOPC90, GOPC91, GOPC92, GOPC93, GOPC94, GOPC95, GOPC96, GOPC97, GOPC98, GOPC99, GOPC100.



ULM	Lac du Bonnet	40.52 284	P	P	03 52 56.8 +0.4
ULM	comp=Z,5.4nm,0.8s,baz=56,slow=7.1,SNR=6.4			LR	04 09 53.2
ULM	comp=Z,14.2nm,21.0s,baz=38,slow=36				
ULM	comp=Z,5.4nm,0.8s				
MMPY	Sheldon Lake,	40.65 320	I	Amb	03 52 59.8 +2.5
MMPY	comp=Z,12nm,0.9s				
MMPY	Sheldon Lake,	40.65 320	P	P	03 52 57.8 +0.4
G23K	Bananza Creek	40.70 333	P	P	03 52 57.0 -0.7
G22K	Bettles	40.74 334	P	P	03 52 57.4 -0.6
AB31	Akbulak array	40.75 78	I	Amb	03 52 58.5 +0.3
AB31	comp=Z,14nm,1.1s				03 53 04.6
ABKAR	Akbulak array	40.75 78	I	Amb	03 52 58.9 +0.7
ABKAR	Akbulak array	40.75 78	I	Amb	03 53 04.6
F21K	Alatina River	40.76 336	P	P	03 52 56.3 -2.0
I26K	Coal Creek Min	40.78 329	I	Amb	03 53 01.4
I26K	Coal Creek Min	40.78 329	P	P	03 52 56.9 -1.4
MAYO	Mayo, Yukon	40.84 323	P	P	03 52 58.4 -0.4
C17K	DeLong Mountai	40.85 342	P	P	03 52 58.0 -0.9
K29M	Barlow Dome	40.96 324	I	Amb	03 53 02.9
K29M	Barlow Dome	40.96 324	P	P	03 52 58.0 -2.0
PRP	Porcupine Dome	41.02 330	I	Amb	03 53 02.7 +2.2
PRP	comp=Z,16nm,0.8s				03 53 03.9
PRP	Porcupine Dome	41.02 330	P	P	03 52 58.0 -2.5
E19K	Redstone River	41.08 338	I	Amb	03 52 58.8 -1.9
BRVK	Borovyoye	41.10 67	P	P	03 53 02.4 +1.3
BRVK	Borovyoye	41.10 67	P	P	03 53 01.8 +0.7
BRVK	comp=Z,11nm,1.0s				03 52 59.7 -1.7
H24K	Noodin Dome	41.15 332	P	P	03 53 01.4 -0.1
DAWY	Dawson	41.15 326	P	P	03 52 58.8 -2.6
DAWY	Dawson	41.15 326	P	P	03 53 02.8 +1.2
BVAR	Borovyoye Array	41.16 66	P	P	03 53 02.8 +1.2
BVAR	comp=Z,3.6nm,0.7s,baz=325,slow=9.0,SNR=24				03 54 37.1 +0.8
BVAR	comp=Z,3.3nm,0.9s,baz=331,slow=12,SNR=4.8				04 09 39.4
BVAR	comp=Z,15.3nm,19.6s,baz=325,slow=36				
BVAR	comp=Z,5.6nm,0.7s				
BEAVL	Fort Liard	41.22 314	P	P	03 53 00.6 -1.4
RD0G	Red Dog Mine	41.22 341	P	P	03 53 01.2 -0.8
F20K	Avaraart Lake	41.25 337	P	P	03 53 01.9 -0.2
C16K	Lisburne Hills	41.28 343	P	P	03 53 01.3 -1.1
G21K	Allakaket	41.42 335	I	Amb	03 53 06.4
G21K	Allakaket	41.42 335	P	P	03 53 02.4 -1.2
H23K	Yukon River	41.44 333	P	P	03 53 01.9 -1.8
FARO	Faro, Yukon	41.47 321	P	P	03 53 02.3 -1.7
AKAS	Kas	41.51 117	P	P	03 53 06.0 +1.2
E18K	Tukpalearik C	41.55 340	I	Amb	03 53 12.2
J26L	Joseph Creek	41.58 328	I	Amb	03 53 02.9 -1.7
J26L	Joseph Creek	41.58 328	P	P	03 53 07.8
D17K	Noatak River	41.58 341	P	P	03 53 03.1 -1.9
H22K	Ishlitalina Cre	41.67 334	P	P	03 53 03.9 -1.8
MAK	Makhachkala	41.68 94	eP	P	03 53 01.9 -4.0
MAK			eS	S	03 54 41.0
MAK			eS	S	03 59 16.7 -5.4
MAK			eSS	SS	04 02 24.7 -2.3
MAK	comp=Z,49nm,1.2s				
K27K	Chicken	41.72 327	I	Amb	03 53 08.8
K27K	Chicken	41.72 327	P	P	03 53 03.9 -2.2
POKR	Poker Plat Res	41.73 331	P	P	03 53 04.9 -1.3
M31M	Drury Creek, Y	41.73 321	P	P	03 53 04.1 -2.1
F19K	Shalerucik Mo	41.74 338	P	P	03 53 03.5 -2.6
L29M	L29M	41.74 324	I	Amb	03 53 08.9
L29M	L29M	41.74 324	P	P	03 53 04.4 -1.9
KOPT	Kop Dagj	41.77 103	I	Amb	03 53 09.8 +2.8
KOPT	comp=Z,11nm,1.0s				03 53 25.3
J25K	Salcha River,	41.82 329	I	Amb	03 53 09.9
J25K	Salcha River,	41.82 329	P	P	03 53 04.7 -2.3
IL31	Eielson Array	41.95 330	I	Amb	03 53 09.5 +1.6
ILAR	comp=Z,4.9nm,0.9s,baz=20,slow=7.0,SNR=39				04 12 32.0
ILAR	comp=Z,26.4nm,20.9s,baz=35,slow=39				
IMAR	Indian Mountain	41.96 335	P	P	03 53 09.6 +1.6
COLA	Colleg	42.02 331	P	P	03 53 09.9 +1.4
COLA	College	42.02 331	P	P	03 53 10.0 +1.5
COLA	comp=Z,16nm,0.9s				
COLA	College	42.02 331	P	P	03 53 07.1 -1.4
E17K	Hotham Inlet	42.02 340	P	P	03 53 06.4 -2.1
I23K	Minto, Yukon-K	42.03 332	I	Amb	03 53 12.0
I23K	Minto, Yukon-K	42.03 332	P	P	03 53 06.2 -2.3
H21K	Melozitina Rive	42.12 334	P	P	03 53 07.9 -1.4
SCRK	Sand Creek	42.14 328	P	P	03 53 06.9 -2.7
LIRD	Liard River Hi	42.15 314	P	P	03 53 07.7 -1.9
AGMN	Agassiz River	42.17 283	P	P	03 53 10.5 +0.7
AGMN	comp=Z,18nm,1.2s				03 53 16.9
F18K	Selawik	42.21 339	P	P	03 53 08.3 -1.7
HDA	Harding Lake	42.29 330	I	Amb	03 53 13.4
HDA	Harding Lake	42.29 330	P	P	03 53 08.5 -2.2
G19K	Purcell Mounta	42.29 337	P	P	03 53 09.0 -1.7
MLY	Manley	42.37 333	P	P	03 53 10.1 -1.3
TOAD	Toad River Com	42.41 313	P	P	03 53 08.5 -3.3
M29M	Somme Creek	42.41 324	P	P	03 53 15.2
M29M	Somme Creek	42.41 324	P	P	03 53 09.2 -2.6
I21K	Tanana	42.43 334	P	P	03 53 09.9 -1.9
DOT	Dot Lake	42.45 328	I	Amb	03 53 15.1
NEA2	Nenana	42.49 332	I	Amb	03 53 15.1
NEA2	Nenana	42.49 332	P	P	03 53 10.3 -2.0

RIDG	Independent Ri	42.52 329	I	Amb	03 53 15.8
RIDG	Independent Ri	42.52 329	P	P	03 53 11.4 -1.2
BCAR	Beaver Creek A	42.53 326	P	P	03 53 15.1 +2.4
L27K	Beaver Creek,	42.55 326	P	P	03 53 10.2 -2.6
F17K	Baldwin Pennin	42.56 340	P	P	03 53 11.2 -1.7
H20K	Anotlenega Mo	42.59 336	P	P	03 53 10.8 -2.3
K24K	Donnelly Dome	42.63 329	P	P	03 53 11.1 -2.4
N31M	Braeburn, Yuko	42.67 322	I	Amb	03 53 16.2
N31M	Braeburn, Yuko	42.67 322	P	P	03 53 11.4 -2.5
G40A	Rib Lake	42.74 275	P	P	03 53 15.2 +0.6
G18K	Tagagavik	42.74 338	I	Amb	03 53 21.4
G18K	Tagagavik	42.74 338	P	P	03 53 11.0 -3.4
H19K	Roundabout Mou	42.78 336	P	P	03 53 12.2 -2.5
L26K	Log Cabin Wild	42.88 327	I	Amb	03 53 18.6
L26K	Log Cabin Wild	42.88 327	P	P	03 53 11.6 -3.9
BVCY	Beaver Creek	42.93 325	P	P	03 53 13.3 -2.7
N30M	Aishihik Lake	42.99 322	P	P	03 53 13.8 -2.7
MENT	Mentasta	43.03 327	I	Amb	03 53 19.9
SEKA	Sheki	43.10 96	P	P	03 53 16.6 -1.0
P33M	Teslin, Yukon	43.12 319	P	P	03 53 14.8 -2.8
GNI	Garni	43.16 99	LR	LR	04 12 41.6
I20K	Naaghedenent	43.18 335	I	Amb	03 53 21.6
I20K	Naaghedenent	43.18 335	P	P	03 53 14.8 -3.0
M27K	Edge Creek, AK	43.19 326	P	P	03 53 15.2 -3.0
WHY	Whitehorse	43.20 320	I	Amb	03 53 21.0
WHY	Whitehorse	43.20 320	P	P	03 53 18.6 +0.4
BILL	Bilbino	43.22 358	eP	P	03 53 18.6 +0.4
BILL	comp=Z,3.0nm,1.0s				
MCK	McKinley	43.26 331	I	Amb	03 53 21.3
MCK	McKinley	43.26 331	P	P	03 53 18.4 -0.2
BPAW	Bear Paw Mtn.	43.27 333	I	Amb	03 53 21.4 +0.2
BPAW	Bear Paw Mtn.	43.27 333	P	P	03 53 19.1 +0.4
GANJ	Ganja	43.28 97	P	P	03 53 17.7 -1.3
PAX	Paxson	43.34 329	I	Amb	03 53 22.1
PAX	Paxson	43.34 329	P	P	03 53 19.0 -0.3
M26K	Nabesna, AK	43.38 327	I	Amb	03 53 23.1
M26K	Nabesna, AK	43.38 327	P	P	03 53 20.6 +1.0
O20N	Mendenthal	43.38 321	P	P	03 53 19.0 -0.7
G17K	Kiwajik Mounta	43.38 339	P	P	03 53 19.1 -0.4
R33M	Jennings River	43.39 317	P	P	03 53 19.8 -0.1
H18K	Honhosa River	43.41 337	I	Amb	03 53 30.3
H18K	Honhosa River	43.41 337	P	P	03 53 19.3 -0.5
YUK3	Moose Creek	43.43 325	P	P	03 53 19.7 -0.5
YUK4	Tall Archa	43.43 323	P	P	03 53 20.0 -0.2
MNGR	Mingechevir, A	43.44 96	P	P	03 53 19.2 -1.1
GCSA	Galena City Sc	43.45 336	P	P	03 53 21.2 +0.1
DHY	Denali Highway	43.59 330	I	Amb	03 53 27.8
DHY	Denali Highway	43.59 330	P	P	03 53 21.6 +0.2
HYT	Haines Junction	43.65 322	I	Amb	03 53 24.5
HYT	Haines Junction	43.65 322	P	P	03 53 22.0 +0.2
F15K	North Star Dit	43.68 341	P	P	03 53 22.8 +0.9
CHUM	Lake Minchumin	43.69 333	P	P	03 53 22.5 +0.4
G16K	Koyuk River	43.70 340	I	Amb	03 53 30.2
G16K	Koyuk River	43.70 340	P	P	03 53 23.0 +0.9
J20K	Nowinta River	43.71 334	I	Amb	03 53 30.2
J20K	Nowinta River	43.71 334	P	P	03 53 22.2 +0.1
SPMN	Marine on St.	43.71 278	I	Amb	03 53 23.7 +1.3
SPMN	comp=Z,9.9nm,1.0s				03 53 29.5
YUK8	Stein Glacier	43.72 324	P	P	03 53 22.3 -0.4
YUK6	Outpost Mounta	43.73 323	P	P	03 53 22.7 0.0
TRF	Thorofare Moun	43.76 332	P	P	03 53 22.6 -0.2
HARP	HAARP	43.80 328	P	P	03 53 22.7 -0.2
H17K	Granite Mounta	43.83 338	I	Amb	03 53 26.2
H17K	Granite Mounta	43.83 338	P	P	03 53 23.0 -0.1
P32M	Atlin	43.88 319	P	P	03 53 22.6 -1.1
DLBC	Dease Lake	44.00 316	LR	LR	04 12 35.2
DLBC	Dease Lake	44.00 316	P	P	03 53 23.6 -1.1
WAT1	Susitna Watana	44.03 330	P	P	03 53 23.3 -1.5
CAST	Castle Rocks	44.09 333	I	Amb	03 53 35.5
CAST	Castle Rocks	44.09 333	P	P	03 53 23.8 -1.5
Q32M	Nakina River	44.09 318	P	P	03 53 23.6 -2.0
F14K	Arctic Creek	44.09 342	P	P	03 53 25.0 -0.2
J19K	Poorman	44.11 335	I	Amb	03 53 33.4
J19K	Poorman	44.11 335	P	P	03 53 24.7 -0.7
WAT6	Susitna Watana	44.11 330	P	P	03 53 25.6 0.0
P30M	Million Dollar	44.16 321	P	P	03 53 25.6 -0.3
TNA	Tin City	44.18 343	P	P	03 53 25.9 0.0
M24K	Tolsona, Glenn	44.26 328	P	P	03 53 24.8 -1.9
O28M	Mount Upton	44.28 324	P	P	03 53 25.4 -1.7
NAX	Nakhchivan	44.29 99	P	P	03 53 26.1 -1.1
G15K	Niukluk	44.30 341	P	P	03 53 25.5 -1.3
MCARA	McCarthy VSAT	44.31			

Table with columns: BRSE, O20K, K13K, CRAG, M16K, ASF, N17K, L14K, P19K, N16K, O18K, M15K, M14K, TAM, TAM, O17K, P18K, N15K, Q19K, M13K, Q20K, O16K, P17K, N14K, TKL, M11K, BBB, Q18K, EIL, NEW, O15K, O14K, KDAD, KDAD, MSO, Q17K, KKAR, KKAR, YOZ, R18K, OHAK, OHAK, MAKZ, MAKZ, MK31, MKAR, MKAR, MKAR, MKAR, MKAR, MKAR, YHL, DLMT, R16K, SII, BW06, PDAR, PDAR, PDAR, PDAR, U38A, U38A, S14K, SP1A, SDPT, SIMJ, SIMJ, MIAR, MIAR, MIAR, MIAR, CHNA, O20A, I07A, BBTS, WMO, WMO, WMO, KSH, KSH, KSH, ELK, ELK, ELK, UNV, PV01, PV13, SONM, SONM, SONM, MVU

Table with columns: NIKH, TORO, TORO, ANMO, R11B, KNB, PETK, HEH, RAYN, RAYN, RAYN, NVAR, NVAR, SJG, SHPR, GWW, MNTX, TXAR, TXAR, TXAR, PFO, GFTA, GFTA, GFTA, GFTA, BNX, DBIC, HHC, HHC, HHC, HHC, MDP, LPIG, EVN, SDV, XAN, XAN, ROSC, NJ2, NJ2, JUNU, BRDH, CHTO, CHTO, CHTO, CMAR, CMAR, QIZ, QIZ, QIZ, PALK, ATAH, BDFB, PTLB, PTLB, LSZ, SIV, NNA, TSUM, LPAZ, PSI, LBPB, LBPB, DAV, TAOE, PPT2, PPT2, TBI, WRA, ASAR, DZM, MAW, HEL 09 04:13:25.0,2,0.7,59N-33:87E, hOkm, ML1.3, Explosion KOLA 09 04:13:24.8, 67:66N-33:74E, hOkm, ML1.5, Error ellipse: s-maj=2.2km s-min=1.1km az=140.0, Khibiny, mines Kirovsk, Yuksport, Baltic States-Belarus-Northwestern

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Time Res, Res ISC, HEL 09 04:13:58.5,0.5,67:90N:20:05E, hOkm, ML1.3, Suspected explosion, Sweden

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Time Res, Res ISC, LANU, LANU, SALU, KIF, KIF, KIF, HEF, HEF, HEF, HEF, PAJU, PAJU, ERTU, ERTU, KTK1, KTK1, KLF, KLF, KALU, KALU, KALU, TOF, TOF, TOF, ARAO, RNF, RNF, KEV, KEV, RAJF, RANF, VRF, OUL, OUL, OLKF, OLKF, UMAU, UMAU

Code Station Name A° AZ° Phase ID Time Res Res ISC

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Time Res, Res ISC, JYK, JYK, JOFO, JOFO, JRG, JRG, JMG, JMG, JOKU, JOKU, JYA, JYA, JYS, JYS, JIO, JIO, JOM, JOM, JMM, JMM, JMM, JMM, JAW, JAW, JAW, JAW, JOTO, JOTO, JNS, JNS, JANG, JANG, JANG, JANG, JSD, JSD, JSD, JSD, JMAJ, JMAJ, MJAR, MJAR, ERM, ERM, ERM, ERM, JEM, JEM, JEM, JEM, JIF, JIF, JIF, JIF, ASAJ, ASAJ, ASAJ, ASAJ, ILAR, ILAR, WRA, WRA, FINES, FINES

Table with 4 columns: Station Name, Frequency, Power, and other parameters. Includes stations like HFS Hagfors and TXAR Lajitas Array.

HEL 09 04:28:23.0, 4.6735N x 19.95E, h0km, ML1,1, Explosion, Sweden

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like LANU Lannavaara, KIF Kipisjarvi, etc.

IDC 09 04:30:33.7, 8.4, 5.61S x 149.86E, h12km, 54km, mb3.0/2, mbmp3.5/3, Error ellipse: s-maj=150.9km

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like PMG Port Moresby, WRA Warramunga Arr, etc.

HVO 09 04:31:20.6, 0.6, 19.419N, 0.007:155.617W, 0.008, h-1km, 5km, ML2.4/3, ML2.5/3(NEIC), Error ellipse: s-maj=1.2km

NEIC 09 04:31:21.1, 0.3, 19.416N, 0.007:155.609W, 0.007, h5km, 1km, Error ellipse: s-maj=2.5km s-min=1.2km az=30.4, Hawaiian Islands

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like MWH Mokuaweeweo, ALEP Alea Permanent, etc.

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like CPH Capita Cook Observatory Le, HUH Hualalai, etc.

Table with 4 columns: PUIH, Station Name, Frequency, Power. Lists stations like KNNH Kane Nui O Ham, KKH Kailua Kona, etc.

IDC 09 04:40:10.8, 1.1, 10.14S x 108.39E, h0km, mb3.8/8, mbmp3.9/11, ML4.0/3, Error ellipse: s-maj=39.4km

NEIC 09 04:40:13.5, 0.6, 10.12S x 108.37E, h10km, 1km, mb4.4/6, Error ellipse: s-maj=13.4km s-min=10.6km az=188.0

DJA 09 04:40:14.0, 4.0, 10.3, 3 x 10.8E, h10km, M4.6/18, mb5.3/1, mb4.9/5, MLV4.4/18, Mw(mb)4.7/1

ISC 09 04:40:13.5, 0.6, 10.12S x 108.37E, 0.05, h25km, n54, r165/53, mb3.9/9, South of Java

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like CMJI Cimerak, XMI Christmas Isia, etc.

MINAI 0.3mn59nm, 0.8s, 7.84 316 Pn Pn 04 42 05.3 -0.8

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like GIRL Girilala, MBWA Marble Bar, etc.

WRA Warramunga Arr 26.88 114 P P 04 45 52.7 +0.1

ASAR Alice Springs 27.84 122 P P 04 46 02.2 +1.0

H08S2 Diego Garcia H 35.52 271 T T 05 25 36.1

H08S3 Diego Garcia H 35.53 271 T T 05 25 24.0

H08S1 Diego Garcia H 35.54 271 T T 05 25 33.0

SONMI Songino Array 57.72 358 P P 04 50 03.4 +1.2

MKAR Makanchi Array 61.26 340 P P 04 50 26.6 0.0

KURBB Kurchatov Arr 65.83 340 P P 04 50 57.8 +1.2

BVAR Boroyev Array 70.75 337 P P 04 51 29.1 +1.6

AB31 Akbulak array 72.77 329 P P 04 51 41.3 +1.7

AB31 Akbulak array 72.77 329 P P 04 51 41.3 +1.7

Table with 4 columns: Code, Station Name, Frequency, Power. Lists stations like PPT2 Papeete2, PPT2 124nm, 29.0s, etc.

WAKE ISLAND HY 39.23 329 T T 05 36 40.8

WAKE ISLAND HY 59.24 329 T T 05 36 46.2

WAKE ISLAND HY 39.23 329 T T 05 37 58.8

WAKE ISLAND HY 40.17 330 T T 05 37 59.9

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

WAKE ISLAND HY 40.17 330 T T 05 37 59.5

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, P, S, Sg, h, m, s, ISC, Time, Res. Includes stations like Observatorio P, Ribolla Roccas, Castiglione Fio, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, P, S, Sg, h, m, s, ISC, Time, Res. Includes stations like Monte Urbano, Bagni Di Lucca, Frosini, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, P, S, Sg, h, m, s, ISC, Time, Res. Includes stations like Isparta, Uak-Banaz, Egirdir - ISPA, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like PAVA Las Pavas, SCLA Alcaidia de Sa, ITCA Escuela Especi, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MARCA Marcala la Paz, TGUH Tegucigalpa, IZABA Izabal, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like COEG Centro de Oper, LFU La Fuente, TECO Alcaidia de Te, etc.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MDOK, USP, KOTS, GAR, etc.

SKHL 09 08:06:44.5 0.4 42.10N:136.780E, h334km, 5km, mb4.8/5, mby4.9/4, msb4.4/4, msha4.4/4

NEIC 09 08:06:45.0 1.0 42.17N:136.72E, h333km, 7km, mb3.4/15, mbmp4.1/22, Error ellipse: s-maj=11.3km s-min=9.3km az=51.0

NIED 09 08:06:45.7 42.17N:136.87E, h349km, MW4.0, Moment Tensor Solution, s3 Moment tensor: Scale 10^15Nm

MOS 09 08:06:45.0 0.9 42.27N:136.69E, h341km, mb4.2/14 Error ellipse: s-maj=8.9km s-min=6.8km az=119.9

ISC 09 08:06:44.9 0.5 42.19N:136.79E, h334km, 6km, n165, e157/191, mb3.8/35, 9C-10D, Eastern Sea of Japan

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JOSH, JOSH, JHST, etc.

Table with columns: JMM, JTKR, MJBJ, MAJO, MJAR, etc. Includes station names and associated data.

Table with columns: LZH, PZH, ZAAO, ZALV, etc. Includes station names and associated data.

IDC 09 08:28:17.9 1.5 28.02N:141.57E, h0km, mb4.1/2, mbmp3.8/3, ML2.0/1, Error ellipse: s-maj=73.7km s-min=22.2km az=70.0, Bonin Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JCJ, MJAR, etc.













MLR	Muntele Rosu	90.96	316	P	P	09 45 21.9	+0.9
VNA3	Neumayer Olymp	91.00	197	PP	P	09 45 22.5	+1.8
VNA3	comp=Z,17nm,0.9s			PP	pwpP	09 45 43.1	-2.5
TURR	Turia	91.02	316	PP	P	09 45 21.9	+0.8
PRAR	RASCA	91.12	318	PP	P	09 45 22.4	+0.8
RZN	Rozen	91.14	312	PP	P	09 45 22.5	+0.5
KMPD	K-Podol'skiy	91.20	319	PP	P	09 45 20.3	-1.6
PUL	Pulkovo	91.42	330	deP	P	09 45 23.6	+1.0
PUL	comp=Z,111nm,0.9s				pmax		
DOPR	Dopca	91.43	316	PP	P	09 45 23.8	+0.7
HUMR	Humele	91.46	315	PP	P	09 45 24.1	+0.9
OUR	Ouranopolis	91.47	310	PP	P	09 45 23.8	+0.5
MNK	Minsk	91.52	325	PP	P	09 45 23.0	-0.2
MNK	comp=E,8.0nm,0.9s				iP	09 45 23.0	-0.2
MNK	comp=N,23nm,0.9s				iP	09 45 23.0	-0.2
MNK	comp=Z,23nm,0.8s,baz=102				iPP	09 45 44.0	-0.6
MNK					iSP	09 45 51.5	-1.5
MNK					iPP	09 49 03.0	+0.7
MNK					iPPP	09 50 59.1	+0.7
MNK					iS	09 55 48.4	-0.2
MNK					iSS	09 56 23.1	+4.1
MNK					iLRM	10 26 20.2	
MNK	comp=E,547nm,18.8s				iLRM	10 26 23.3	
MNK	comp=N,388nm,17.4s				P	09 45 23.0	-0.2
VOIR	Minsk	91.52	325	dPP	P	09 45 23.8	0.0
VOIR		91.57	316	PP	P	09 45 23.8	0.0
VOIR		91.57	316	PP	P	09 45 23.8	0.0
VHAD	Vladia	91.78	314	PP	P	09 45 26.4	+1.7
LVZ	Lozero	91.79	339	dPP	P	09 45 23.6	-0.7
LVZ	comp=Z,71nm,1.1s				pmax		
LVZ	Lozero	91.79	339	PP	P	09 45 23.5	-0.7
BURAR	Bucovina Array	91.84	318	PP	P	09 45 26.5	+1.5
BURAR	Bucovina Array	91.84	318	PP	P	09 45 26.5	+1.5
MMB	Musomitsa	91.84	312	PP	P	09 45 25.3	+0.2
NKH	Nikolski High	91.91	371	PP	P	09 45 25.3	+0.3
SPIA	Saint Paul Isl	91.97	33	P	P	09 45 25.8	+0.5
KSV	Kosov	92.06	318	PP	P	09 45 25.4	-0.5
RNPP5	Staryi Chortor	92.06	321	PP	P	09 45 25.5	-0.3
RNPP9	Sopachiv	92.10	332	PP	P	09 45 25.9	-0.1
APA	Apativy	92.14	328	PP	P	09 45 22.8	-3.0
APA					i	09 49 08.0	
APA	comp=Z,19nm,1.2s				pmax		
MPEP	Malo Peshtene	92.14	313	PP	P	09 45 26.7	+0.3
TNR	Turnu Rosu	92.14	316	PP	P	09 45 27.7	+1.2
TNR	Turnu Rosu	92.14	316	PP	P	09 45 27.6	+1.2
NACGM	Naroch	92.23	325	ePP	P	09 45 26.1	-0.3
NACGM	comp=Z,19nm,0.8s,baz=102						
P08K	Saint George I	92.23	33	P	P	09 45 26.8	+0.4
PLNA	Plana	92.23	312	PP	P	09 45 27.5	+0.5
ARCR	ARCALIA	92.33	317	PP	P	09 45 28.7	+1.5
KKB	Krupnik	92.35	312	PP	P	09 45 27.5	+0.1
VTS	Vitosha	92.39	313	PP	P	09 45 27.8	0.0
VALD	Vaichedram	92.42	314	PP	P	09 45 28.8	+1.2
LOT	Lotru	92.46	315	PP	P	09 45 28.5	+0.6
GAMB	Gambell	92.72	26	P	P	09 45 29.2	+0.7
CJR	Cluj-Napoca	92.78	317	PP	P	09 45 31.1	+1.8
CJR	Cluj-Napoca	92.78	317	PP	P	09 45 31.1	+1.8
VSU	Vasula	92.94	329	ePP	P	09 45 28.9	-0.8
VSU	comp=Z,48nm,1.1s				pmax		
LVV	L'vov	92.99	320	PP	P	09 45 30.2	0.0
BMR	Baia Mare	93.00	318	PP	P	09 45 31.3	+1.1
BMR	Baia Mare	93.00	318	PP	P	09 45 31.3	+1.1
MARIR	Marisel-Cluj	93.10	317	PP	P	09 45 31.9	+0.4
DEV	Deva	93.13	316	PP	P	09 45 32.3	+1.4
DEV	Deva	93.13	316	PP	P	09 45 32.2	+1.4
GZR	Gura Zlata	93.14	315	PP	P	09 45 31.9	+0.8
GZR	Gura Zlata	93.14	315	PP	P	09 45 31.8	+0.8
HIERR	Herculina	93.32	315	PP	P	09 45 32.6	+0.8
HIERR	Herculina	93.32	315	PP	P	09 45 32.7	+0.8
DRGR	Dracov	93.39	317	PP	P	09 45 32.7	+0.5
TRSU	Trosnyk	93.42	318	PP	P	09 45 31.2	-1.0
UNV	Unalaska Valle	93.45	36	P	P	09 45 31.7	-0.4
SURR	Surduc	93.65	316	PP	P	09 45 33.7	+0.5
BOVS	Bovan	93.65	313	PP	P	09 45 33.9	+0.6
MDVR	Moldovita	93.80	315	PP	P	09 45 34.7	+0.6
FINES	FINES Array B	93.81	331	P	P	09 45 34.2	+0.6
FINES	comp=Z,29nm,0.8s,baz=96,slow=5.7,SNR=64				LR	10 32 38.3	
FINES	comp=Z,29nm,21.1s,baz=88,slow=39						
FINES	comp=Z,29nm,0.8s						
AKUT	Akutan	93.92	316	PP	P	09 45 34.7	+0.4
BZS	Buzias	93.98	315	PP	P	09 45 35.2	+0.3
EZS	Euzias	93.98	317	PP	P	09 45 35.1	+0.3
KOLS	Kolonickie sedl	93.99	319	ePP	P	09 45 35.8	+1.0
KOLS	comp=Z,33nm,0.8s				pmax		
KOLS	Kolonickie sedl	93.99	319	ePP	P	09 45 35.8	+1.0
SUW	Suwalki	94.15	324	ePP	P	09 45 36.9	+0.3
OUL	Oulu	94.53	335	P	P	09 45 36.9	+0.1
OUL	comp=Z,112nm,1.0s				pmax		
M11K	Mekoryuk	94.62	30	P	P	09 45 37.5	+0.1
TNA	Tin City	94.67	24	P	P	09 45 37.8	+0.3
SGF	Sodankyl	94.69	337	P	P	09 45 37.3	-0.3
SGF	comp=Z,50nm,1.2s				pmax		
STHS	Stebnicka Huta	94.72	319	ePP	P	09 45 38.4	+0.2
STHS	comp=Z,17nm,0.8s				pmax		
STHS	Stebnicka Huta	94.72	319	ePP	P	09 45 38.4	+0.2
SJES	Sjenica	94.85	313	PP	P	09 45 39.7	+0.7
FRGS	Fruska Gora	95.19	315	ePP	P	09 45 40.5	+0.1
PDG	Podgorica	95.28	312	ePP	P	09 45 41.0	+0.2
PDG	Podgorica	95.28	312	ePP	P	09 45 41.0	+0.2
DRME	Dracevica, Mon	95.31	317	PP	P	09 45 40.7	-0.3
F14K	Arctic Creek	95.31	25	P	P	09 45 40.8	+0.3
TEKS	Tekeris	95.32	314	PP	P	09 45 40.6	-0.4
RUDO	Rudo	95.33	313	PP	P	09 45 40.6	-0.5
BBLs	Laz&#2631	95.33	313	PP	P	09 45 41.4	+0.2
NIE	Niedzica	95.34	319	ePP	P	09 45 41.4	+0.4
NIE	Niedzica	95.34	319	ePP	P	09 45 41.7	+0.7
ARAO	ARCESS Array S	95.41	339	ePP	P	09 45 40.5	-0.3
ARCES	ARCESS Array B	95.41	339	ePP	P	09 45 40.4	-0.4
ARCES	comp=Z,8.2nm,0.4s,baz=101,slow=4.5,SNR=9.5				LR	10 33 44.8	
ARCES	comp=Z,455nm,20.9s,baz=94,slow=39						
ARCES	comp=Z,8.2nm,0.4s						
PSZ	Piszkesteto	95.44	317	PP	P	09 45 42.0	+0.5
PSZ	Piszkesteto	95.44	317	PP	P	09 45 42.0	+0.5
K19K	Kuzivak Mount	95.58	28	P	P	09 45 42.2	+0.5
ANM	Nome	95.59	26	P	P	09 45 42.3	+0.6
HAPS	Han Pijesak,BI	95.68	314	PP	P	09 45 43.3	+0.5
OJC	Ojcow	95.75	320	PP	P	09 45 42.9	+0.1
OJC	Ojcow	95.75	320	PP	P	09 45 45.0	+2.2
HCY	Herceg Novi	95.85	312	PP	P	09 45 43.0	-0.4
LANS	Liptovska Anna	95.85	319	ePP	P	09 45 43.6	+0.2
LANS	Liptovska Anna	95.85	319	ePP	P	09 45 43.6	+0.2
BRY	Bratogost	95.86	312	PP	P	09 45 42.7	+1.0
M13K	Dall Lake	96.03	30	P	P	09 45 44.5	+0.7
F15K	North Star Dit	96.03	25	P	P	09 45 44.4	+0.7
C16K	Lisburne Hills	96.07	22	P	P	09 45 44.6	+0.8
MORH	Mirgy, Hungar	96.11	316	PP	P	09 45 44.7	+0.2
J14K	Nanvaranak Lak	96.18	28	P	P	09 45 45.0	+0.6
VYHS	Vyhne	96.20	318	ePP	P	09 45 45.0	+0.1
VYHS	comp=Z,7.0nm,1.2s				pmax		
VYHS	Vyhne	96.20	318	ePP	P	09 45 45.0	+0.1
G15K	Niukuk	96.21	25	P	P	09 45 44.9	+0.4
G15K	baz=264						

S12K	Black Hills	96.24	35	P	P	09 45 45.2	+0.3
L14K	Kuka Creek	96.45	29	P	P	09 45 46.5	+0.8
STON	Srobarova	96.47	312	PP	P	09 45 45.0	-1.2
SRO	Srobarova	96.49	317	PP	P	09 45 47.0	+0.8
SRO	comp=Z,10.0nm,0.9s				pmax		
M14K	Methel	96.49	317	ePP	P	09 45 47.0	+0.8
M14K	baz=265,SNR=7.7						
OKC	Ostrava-Krasne	96.77	319	ePP	P	09 45 47.6	+0.2
OKC	Ostrava-Krasne	96.77	319	ePP	P	09 45 47.6	+0.2
N14K	Kuskokwak Cree	96.81	30	P	P	09 45 47.8	+0.4
TIP	Timpagrande	96.85	309	PP	P	09 45 49.4	+1.3
D17K	Noatak River	96.86	23	P	P	09 45 48.3	+0.8
C17K	DeLong Mountai	96.89	22	P	P	09 45 48.4	+0.8
G16K	Koyuk River	96.95	25	P	P	09 45 48.8	+0.9
RDOG	Red Dog Mine	96.95	22	P	P	09 45 48.8	+0.9
O14K	Tiguykaiuvet M	96.97	31	P	P	09 45 48.8	+0.7
JAVC	Velka Javorina	97.00	318	ePP	P	09 45 49.6	+0.9
BL Y	Blava Lujava	97.00	314	ePP	P	09 45 49.0	+0.3
MATE	Materski	97.02	310	PP	P	09 45 49.9	+0.7
STEB	Steborice	97.02	319	ePP	P	09 45 48.8	+0.1
L15K	Ungalak Mounta	97.05	29	P	P	09 45 49.1	+0.6
K15K	Wolf Creek Mou	97.08	28	P	P	09 45 49.3	+0.6
SDPT	Sand Point	97.11	35	P	P	09 45 48.8	0.0
MORC	Moravsky Berou	97.16	319	ePP	P	09 45 49.6	+0.3
MORC	Moravsky Berou	97.16	319	ePP	P	09 45 49.6	+0.3
MORC	Moravsky Berou	97.16	319	ePP	P	09 45 49.6	+0.3
A051A	Mradkova	97.22	314	PP	P	09 45 48.9	-0.8
M05A	Madra-Piesok	97.23	318	ePP	P	09 45 49.2	-0.4
MODS	comp=Z,15nm,1.0s				pmax		
MODS	Madra-Piesok	97.23	318	ePP	P	09 45 49.2	-0.4
TBI	Tubuai	97.28	115	ePP	PP	09 49 45.9	-1.9
TBI	comp=Z,281nm,31.5s				eS	09 57 02.7	-5.5
TBI	comp=Z,1um,32.2s				eSS	10 03 41.4	-6.2
TBI	comp=Z,2um,33.0s				eLQ	10 13 02.3	
TBI	comp=Z,1um,35.5s				eLR	10 17 23.8	
TBI	comp=Z,1um,25.0s				eLR	10 17 29.9	
E17K	comp=Z,1um,25.8s				eLR	10 17 29.9	
E17K	Hotham Inlet	97.29	23	P	P	09 45 50.4	+1.0
M15K	Kasigluk River	97.37	30	P	P	09 45 50.5	+0.5
A050A	Klekovaca	97.45	314	PP	P	09 45 50.2	-0.6
B18K	Kokolik River	97.45	21	P	P	09 45 50.8	+0.7
F17K	Baldwin Pennin	97.48	24	P	P	09 45 51.1	+0.8
I17K	Unalakleet	97.56	27	P	P	09 45 51.7	+1.0
J16K	Anvik River	97.57	27	P	P	09 45 51.6	+0.9

M19K	baz=272,SNR=7.5 Big River Lodg	100.42	29	P	Pdif	09 46 04.2 +0.6
J20K	baz=272 Novinta River	100.44	26	P	Pdif	09 46 04.1 +0.6
NKC	comp=Z,200nm,13.5s Novy Kostel	100.46	320	AMS	AMS	10 37 20.0
R18K	baz=271 Karluk	100.51	33	P	Pdif	09 46 04.3 +0.3
O19K	baz=272 Port Alsworth	100.51	30	P	Pdif	09 46 04.2 +0.3
K20K	baz=272 Telida	100.51	27	P	Pdif	09 46 04.8 +0.9
F21K	baz=274 Aaina River	100.55	23	P	Pdif	09 46 04.8 +0.8
G21K	baz=274 Allakaket	100.58	24	P	Pdif	09 46 04.7 +0.5
L20K	baz=274,SNR=7.7 Farewell AK	100.64	28	P	Pdif	09 46 05.3 +0.8
SII	baz=272,SNR=6.4 Sitkinak Islan	100.67	34	P	Pdif	09 46 05.0 +0.2
D22K	baz=271 Aikyak River	100.72	21	P	Pdif	09 46 05.3 +0.5
Q19K	baz=275 Cape Douglas,	100.90	32	P	Pdif	09 46 05.8 0.0
H21K	baz=275 Melozitna Rive	100.93	25	P	Pdif	09 46 06.3 +0.6
NB2	comp=Z,23nm,1.4s,baz=81,slow=4.6 NORSAR Subarra100.94 331			P	Pdif	09 46 05.7 -0.2
NB2	comp=Z,23nm,1.4s,baz=81,slow=4.6 NORSAR Subarra100.94 331			P	Pdif	09 46 05.7 +0.8
NB2	comp=Z,23nm,1.4s,baz=81,slow=4.6 NORSAR Subarra100.94 331			P	Pdif	09 46 05.7 -0.2
NOA	comp=Z,5.7nm,0.9s,baz=88,slow=4.6,SNR=8.4 NORSAR Array B100.94 331			P	Pdif	09 46 05.9 0.0
NOA	comp=Z,0.8nm,0.8s,baz=93,slow=7.7,SNR=3.2 Wattenberg	100.98	317	i Pdif	PP	09 50 16.8 +1.9
WTTA	comp=Z,7.1nm,1.0s WTTA			ePP	PP	09 46 06.1 -0.5
WTTA	comp=Z,7.6nm,1.2s WTTA			ePP	PP	09 50 12.6 -3.1
M20K	baz=273 Styx River	101.02	29	P	Pdif	09 46 06.8 +0.5
WATA	comp=Z,4.4nm,0.9s Walderalm	101.02	317	i Pdif	Pdif	09 46 06.0 -0.7
F22K	comp=Z,10.0nm,1.5s John River	101.03	23	P	Pdif	09 46 06.7 +0.6
P19K	baz=275 Oil Pt	101.08	31	P	Pdif	09 46 06.8 +0.3
E22K	baz=272 Anaktuvuk Pass	101.11	22	P	Pdif	09 46 07.0 +0.4
OHAK	baz=276 Old Harbor	101.15	33	P	Pdif	09 46 07.0 +0.2
QHUA	baz=274 Lake Minchumin	101.27	26	P	Pdif	09 46 07.5 +0.3
SHTA	comp=Z,3.1nm,0.7s Sankt Quirin	101.27	316	i Pdif	Pdif	09 46 07.5 -0.3
SQTA	comp=Z,5.1nm,1.0s Tanana	101.31	25	P	Pdif	09 46 08.2 +0.8
I21K	baz=275 Moosalm	101.34	317	i Pdif	Pdif	09 46 07.9 -0.3
MOTA	comp=Z,7.7nm,1.1s MOTA			ePP	PP	09 50 16.2 -2.2
G22K	comp=Z,8.2nm,1.2s Bettles	101.34	23	P	Pdif	09 46 08.2 +0.7
C23K	baz=277 Ikilik River	101.35	20	P	Pdif	09 46 08.3 +0.8
O20K	baz=273 Slope Mountain	101.36	30	P	Pdif	09 46 08.1 +0.2
PPLA	baz=274 Purkeypile	101.39	27	P	Pdif	09 46 08.2 +0.2
CAST	baz=274 Castle Rocks	101.40	27	P	Pdif	09 46 08.4 +0.5
D23K	baz=277 Nanushuk River	101.44	21	P	Pdif	09 46 08.6 +0.7
H22K	baz=275 Ishtalitna Cre	101.50	24	P	Pdif	09 46 09.1 +0.9
N20K	baz=273 Mount Spurr	101.50	29	P	Pdif	09 46 08.1 -0.3
KD4K	baz=273 Kodiak Island	101.50	33	P	Pdif	09 46 08.6 +0.2
Q20K	baz=273 Shuyak Island	101.56	32	P	Pdif	09 46 08.8 +0.2
RETA	comp=Z,4.1nm,1.0s Reutte	101.57	317	i Pdif	Pdif	09 46 08.4 -0.7
RETA	comp=Z,2.0nm,0.5s Feichten	101.60	316	i Pdif	PP	09 46 09.1 -0.2
FETA	comp=Z,3.6nm,1.3s Feichten			ePP	PP	09 50 17.8 -2.6
SKT	comp=Z,9.5nm,1.2s Skvewna	101.77	28	P	Pdif	09 46 09.6 +0.1
COLD	baz=274 Coldfoot	101.82	23	P	Pdif	09 46 10.3 +0.6
BP4W	baz=276 Bear Paw Mtn.	101.83	26	P	Pdif	09 46 10.3 +0.5
MLY	baz=276 Manley	101.85	25	P	Pdif	09 46 10.5 +0.7
TOLK	baz=276 Toolik Lake Re	101.88	22	P	Pdif	09 46 10.6 +0.6
HOM	baz=274 Homer	101.89	31	P	Pdif	09 46 10.4 +0.4
E23K	baz=273 Chandalar	101.94	22	P	Pdif	09 46 10.5 +0.2
G23K	baz=273 Bananza Creek	101.95	24	P	Pdif	09 46 10.8 +0.5
C24K	baz=279 Franklin Bluff	102.03	20	P	Pdif	09 46 11.0 +0.5
D24K	baz=278 Happy Valley	102.07	21	P	Pdif	09 46 11.2 +0.5
DAVA	comp=Z,3.5nm,0.7s Damuels	102.17	317	i Pdif	Pdif	09 46 12.1 +0.2
DAVA	comp=Z,10nm,1.0s Susitna One	102.18	29	P	Pdif	09 50 21.5 -3.2
SUA	baz=275 Susitna One	102.18	29	P	Pdif	09 46 11.6 +0.1
TRF	baz=276 Thorofore Moun	102.20	27	P	Pdif	09 46 11.9 +0.3
H23K	baz=277 Yukon River	102.25	24	P	Pdif	09 46 11.9 +0.3
CUT	baz=277 Chullitna	102.32	28	P	Pdif	09 46 12.4 +0.5
BRSE	baz=278 Bradley Lake S	102.33	31	P	Pdif	09 46 12.4 +0.3
E24K	baz=275 Your Creek	102.36	22	P	Pdif	09 46 12.3 +0.2
I23K	baz=279 Mirto, Yukon-K	102.41	25	P	Pdif	09 46 12.6 +0.3
M22K	baz=276 Willow	102.45	29	P	Pdif	09 46 12.7 +0.2
F24K	baz=277 Nerana	102.61	26	P	Pdif	09 46 13.3 +0.1
NEAK	baz=277 Squaw Lake	102.67	23	P	Pdif	09 46 13.7 +0.3
RC01	baz=279 Rabbit Creek A	102.71	29	P	Pdif	09 46 13.9 +0.2
MCK	baz=277 McKinley	102.77	26	P	Pdif	09 46 14.2 +0.2
O22K	baz=277 Cooper Landing	102.77	30	P	Pdif	09 46 14.3 +0.3
D25K	baz=281 Kavik River	102.90	21	P	Pdif	09 46 14.7 +0.2
H24K	baz=281 Noodor Dome	102.93	24	P	Pdif	09 46 14.8 +0.1
PMR	baz=279 Palmer	102.94	29	P	Pdif	09 46 15.0 +0.3
SEW	baz=276 Seward	102.95	30	P	Pdif	09 46 15.0 +0.3
G24K	baz=279 Hadzencic Riv	102.95	23	P	Pdif	09 46 15.0 +0.2
WAT1	baz=278 Susitna Watana	103.06	27	P	Pdif	09 46 15.6 +0.3
COLA	baz=277 College	103.08	25	P	Pdif	09 46 15.7 +0.5
POKR	baz=278 Poker Plat Res	103.22	25	P	Pdif	09 46 16.1 +0.1
KNK	baz=279 Knik Glacier	103.28	29	P	Pdif	09 46 16.2 -0.1
C26K	baz=282 Camden Bay	103.28	20	P	Pdif	09 46 16.3 +0.2
SML	baz=277 Sawmill	103.29	28	P	Pdif	09 46 16.4 0.0
PWL	baz=277 Port Wells	103.41	29	P	Pdif	09 46 16.5 -0.3

WAT6	baz=278 Susitna Watana	103.47	28	P	Pdif	09 46 17.0 -0.2
G25K	baz=280 Bearman Lake	103.48	23	P	Pdif	09 46 16.9 -0.1
F25K	baz=281 Christian River	103.50	22	P	Pdif	09 46 16.8 -0.4
ILAR	comp=Z,0.4nm,0.8s,baz=284,slow=3.9,SNR=4.9 Eielson Array	103.51	25	Pdif	PKIKP	09 46 16.4 -0.8
ILAR	comp=Z,0.7nm,0.8s,baz=284,slow=8.1,SNR=4.9 Harding Lake	103.54	26	P	Pdif	09 50 34.9 -0.6
HDA	baz=279 Harding Lake	103.54	26	P	Pdif	09 46 17.4 0.0
DHY	baz=278 Denali Highway	103.56	27	P	Pdif	09 46 17.1 -0.6
M23K	baz=278 Glacier View	103.58	28	P	Pdif	09 46 17.2 -0.4
H25L	baz=280 Birch Creek	103.69	24	P	Pdif	09 46 17.7 -0.3
C27K	baz=284 Jago River	103.76	20	P	Pdif	09 46 18.2 0.0
SCM	baz=284 Sheep Creek Mo	103.76	28	P	Pdif	09 46 18.1 -0.4
PRP	baz=278 Porcupine Dome	103.94	24	P	Pdif	09 46 19.0 -0.3
P23K	baz=283 Montague Islan	103.98	30	P	Pdif	09 46 18.8 -0.5
GLI	baz=278 Glacier Island	104.01	29	P	Pdif	09 46 19.2 -0.4
F26K	baz=283 Sheenjek River	104.04	22	P	Pdif	09 46 19.4 -0.1
K24K	baz=283 Donnelly Dome	104.15	26	P	Pdif	09 46 19.7 -0.4
J25K	baz=281 Salcha River,	104.18	25	P	Pdif	09 46 19.9 -0.3
M24K	baz=281 Tolsona, Glenn	104.26	28	P	Pdif	09 46 20.2 -0.5
G26K	baz=283 Porcupine Rive	104.34	23	P	Pdif	09 46 20.5 -0.3
PAX	baz=280 Paxson	104.43	27	P	Pdif	09 46 21.2 -0.3
KLU	baz=279 Kluane	104.48	29	P	Pdif	09 46 21.2 -0.5
RIDG	baz=281 Independent Ri	104.57	26	P	Pdif	09 46 21.7 -0.3
Q23K	baz=281 Middleton Isla	104.59	31	P	Pdif	09 46 21.7 -0.4
HARP	baz=280 HAARP	104.68	28	P	Pdif	09 46 22.0 -0.4
EYAK	baz=280 Cordova Ski Ar	104.71	30	P	Pdif	09 46 22.2 -0.4
D27M	baz=286 Malcolm River	104.79	20	P	Pdif	09 46 22.3 -0.6
E27K	baz=285 Coleen River	104.86	21	P	Pdif	09 46 22.9 -0.3
SCRK	baz=285 Sand Creek	104.89	26	P	Pdif	09 46 23.0 -0.5
I26K	baz=282 Coal Creek Min	104.96	24	P	Pdif	09 46 23.6 -0.1
J26L	baz=282 Joseph Creek	104.97	25	P	Pdif	09 46 23.4 -0.4
N25K	baz=281 Chitina, Valde	105.08	28	P	PKIKP	09 50 38.7 +0.1
G27K	baz=280 Doyon Strip	105.19	23	P	PKIKP	09 50 38.6 +0.1
B27M	baz=280 Bremer River	105.20	29	P	PKIKP	09 50 38.7 -0.1
MENT	baz=282 Mentasta	105.22	27	P	Pdif	09 46 26.2 +1.3
L26K	baz=282 Log Cabin Wild	105.37	27	P	PKIKP	09 50 38.9 -0.1
H27K	baz=285 Steamboat Moun	105.39	23	P	PKIKP	09 50 38.9 0.0
E28M	baz=285 Babbage River	105.47	21	P	PKIKP	09 50 39.4 +0.4
KAIM	baz=280 Kayak Island	105.47	30	P	PKIKP	09 50 39.3 +0.1
I27K	baz=280 Kandik River	105.51	24	P	PKIKP	09 50 39.4 +0.2
D28M	baz=288 Stokes Point	105.53	20	P	PKIKP	09 50 39.6 +0.6
F28M	baz=288 Old Crow	105.64	22	P	PKIKP	09 50 39.8 +0.5
M26K	baz=282 Kabeena, AK	105.66	27	P	PKIKP	09 50 40.1 +0.5
K27K	baz=284 Chicken	105.70	26	P	PKIKP	09 50 40.0 +0.5
MCAR	baz=282 McCarthy VSAT	105.87	28	P	PKIKP	09 50 40.3 +0.4
CRQE	baz=282 Cirque	105.96	29	P	PKIKP	09 50 40.5 +0.2
BGLC	baz=282 Bering Glacier	106.00	30	P	PKIKP	09 50 40.4 +0.3
L27K	baz=284 Beaver Creek,	106.04	27	P	PKIKP	09 50 40.5 +0.3
E29M	baz=285 Blow River	106.11	21	P	PKIKP	09 50 40.8 +0.6
M27K	baz=283 Edge Creek, AK	106.18	27	P	PKIKP	09 50 40.6 0.0
I28M	baz=283 Miner Creek	106.23	24	P	PKIKP	09 50 40.7 +0.1
G29M	baz=288 Pine Creek	106.54	22	P	PKIKP	09 50 41.6 +0.6
H29M	baz=288 Whitestone	106.62	23	P	PKIKP	09 50 41.8 +0.7
BVCY	baz=284 Beaver Creek	106.63	27	P	PKIKP	09 50 41.7 +0.4
MESA	baz=284 MESA	106.64	30	P	PKIKP	09 50 42.0 +0.4
CTG	baz=283 China Glacier	106.75	29	P	PKIKP	09 50 42.3 +0.6
DAWY	baz=286 Dawson	106.84	25	P	PKIKP	09 50 42.4 +0.7
I29M	baz=286 Oglivie Camp,	106.91	24	P	PKIKP	09 50 42.5 +0.7
YU03	baz=284 Moose Creek	106.97	28	P	PKIKP	09 50 42.7 +0.5
F30M	baz=284 Barrier River	107.13	21	P	PKIKP	09 50 42.8 +0.7
G30M	baz=290 Aach Zraii Nji	107.19	22	P	PKIKP	09 50 42.9 +0.6
EPYK	baz=289 Eagle Plains	107.21	23	P	PKIKP	09 50 43.2 +0.9
O28M	baz=284 Mout Upton	107.35	29	P	PKIKP	09 50 43.0 -0.1
YU08	baz=285 Steele Glacier	107.42	28	P	PKIKP	09 50 43.0 -0.1
PINM	baz=284 Pinnacle	107.48	29	P	PKIKP	09 50 43.4 +0.3
L29M	baz=287 L29M	107.65	26	P	PKIKP	09 50 44.1 +0.9
INK	baz=287 Inuvik	107.66	20	P	PKIKP	09 50 44.0 +1.0
K29M	baz=288 Barlow Dome	107.69	25	P	PKIKP	09 50 43.8 +0.4
M29M	baz=288 Somme Creek	107.70	27	P	PKIKP	09 50 43.7 +0.3
I30M	baz=289 Mount Dempster	107.72	24	P	PKIKP	09 50 43.6 +0.3
F31M	baz=292 Tsighehtic	107.92	21	P	PKIKP	09 50 43.9 +0.4
YU04	baz=286 Talbot Arm	107.92	28	P	PKIKP	09 50 44.2 +0.2
G31M	baz=292 Satah River	107.92	22	P	PKIKP	09 50 44.0 +0.5
J30M	baz=292 Hart River	107.95	24	P	PKIKP	09 50 44.0 +0.1
PNL	baz=285 Peninsula	108.01	30	P	PKIKP	09 50 44.1 +0.2
YU06	baz=285 Outpost Mounta	108.17	28	P	PKIKP	09 50 44

Table with columns: STA, Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like SPA0 Spitsbergen Ar, SPITS Spitsbergen Ar, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like JKR Kurayoshi, JAD Aida, etc.

BUIJ 09:09:47:37.8, 12.19S; 116:03E, h31km, mB5.3/5, mb4.9/46, Ms4.7/5, Ms7.4/41
IDC 09:09:47:40.9, 0.5, 11.44S; 115:76E, h0km, mb4.6/20, mtmtp4.7/23, ML4.8/3, MS3.8/4, Error ellipse: s-maj=20.4km, s-min=11.2km, az=72.0, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like DNP Denpasar, TWSI Taliwang, Sumb, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like PCJI Pacitan, GRJI Gresik, NGJI Ngawi, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like KAPI Kappang, BATI Baumata, BNSI Bone, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like BBJI Bungbulang, LEM Lembang, TTSI Tana Toraja, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like FITZ Fitzroy Crossi, TPI Tanjungpandan, etc.

Table with columns: STKI, Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like KASI Kota Agung, KNRA Kunurra, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like MORW Morawa, KKM Kota Kinabalu, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like RPSI Rantau Prapat, RPSI Prapat, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: BTO, Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like BTO Baotou, BTO Baotou, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like BTO Baotou, BTO Baotou, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like RTZ Ruatahuna, NIL Niore, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like KAK Karakoram, KAK Karakoram, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like VVND Vanda, VVND Vanda, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like ARTI Ariti, ARTI Ariti, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, ISC, Time, Res. Includes stations like BELA Belgrano, BELA Belgrano, etc.

DJA 09:09:48:22.6, 0.9, 2.7N; 121.7E; h10km, M4.5/7, mB5.3/2, mb5.3/2, ML4.0/7, Mw(mB)4.7/2, Minahassa Peninsula, Sulawesi





NEIC 09 11:53:55.8, 2.805, 139.37E, h30km  
 NEIC 09 11:53:55.8, 2.805, 139.47E, h30km, Moment Tensor Solution. Duration: 2s3 Moment tensor: Scale 1017Nm; M<sub>0</sub>:0.87; M<sub>1</sub>:0.81; M<sub>2</sub>:0.07; M<sub>3</sub>:0.58; M<sub>4</sub>:0.19; M<sub>5</sub>:0.26; Fault plane solution: M<sub>0</sub>:1.07000x10<sup>17</sup> Np1.98.17000°, δ27.28000°, λ79.60000°. NP2:289.84000°, δ63.21000°, λ95.32000°. Principal axes: T 1.0853, P1g71.0000°, Azm212.0000°, N -0.0271, P1g5.0000°, Azm107.0000°; P 1.05087, P1g18.0000°, Azm16.0000°

ISC 09 11:53:53.7-0.4, 2.855, 0.03, 139.53E, 0.03, h24km, 2km, h25km, P-P, n181, r146/855, mb5.2/161, MS4.6/76, 10C-18D Near north coast of Irian Jaya

Code	Station Name	Lat	Long	Phase ID	ISC	Time	Res
GENI	Genyem	0.68 68	P	Pb	ISC	11 54 06.2	-0.8
GENI	Genyem	0.68 68	S	Pb	ISC	11 54 16.5	+0.5
GENI	Genyem	0.68 68	S	Pb	ISC	11 54 06.2	-0.8
GENI	Genyem	0.68 68	S	Sn	ISC	11 54 17.1	-0.6
SMPI	Sarmi	1.18 316	P	Pn		11 54 12.8	-2.0
JAY	Jayapura	1.22 74	Pg	Pn		11 54 12.7	-2.5
JAY	Jayapura	491nm, 0.3s, baz=254, slow=16, SNR=154		Lg		11 54 28.4	
JAY	Jayapura	4μm, 0.3s, baz=106, slow=19, SNR=27		Lg		11 54 59.3	
JAY	Jayapura	comp=Z, 1.7um, 19.5s, baz=62, slow=58		LR			
JAY	Jayapura	1.22 74	P	Pn		11 54 12.7	-2.5
JAY	Jayapura	1.22 74	P	Sn		11 54 26.9	-4.0
SRPI	Serui, Papua	3.43 286	P	Pn		11 54 46.2	+0.5
RKPI	Ransiki, Papua	5.51 264	P	Pn		11 55 15.9	+1.5
KMPI	Kaimana, Papua	5.88 262	P	Pn		11 55 21.8	+2.5
FAKI	Fak Fak	7.28 269	P	Pn		11 55 40.2	+1.6
FAKI	Fak Fak	7.28 269	P	Pn		11 55 40.6	+2.0
FAKI	Fak Fak	7.28 269	P	Pn		11 55 39.7	+1.1
MANU	Manus Island	7.87 84	P	Pn		11 55 50.3	+3.6
SWI	Sorong	8.50 283	P	Pn		11 55 58.0	+2.6
SAUI	Suaiki	9.65 238	Ph	Pn		11 56 09.8	-1.4
BNDI	Bandanaira	9.75 260	P	Pn		11 56 11.9	-0.7
BNDI	Bandanaira	9.75 260	P	Pn		11 56 17.0	+4.4
PMG	Port Moresby	9.99 131	Pn	Pn		11 56 19.3	-3.4
PMG	Port Moresby	9.99 131	Ph	Pn		11 56 16.8	+0.9
PMG	Port Moresby	34nm, 0.9s, baz=310, slow=12, SNR=15		LR		12 01 15.5	
PMG	Port Moresby	comp=Z, 4μm, 21.4s, baz=318, slow=44		LR			
PMG	Port Moresby	9.99 131	P	Pn		11 56 18.1	+2.2
PMG	Port Moresby	9.99 131	P	Pn		11 56 18.2	+2.3
PMG	Port Moresby	9.99 131	deP	Pn		11 56 18.8	+2.9
PMG	Port Moresby	9.99 131	deP	Pn		11 56 18.8	+2.9
MSAI	Masohi	10.60 267	P	Pn		11 56 25.0	+0.8
AAI	Ambon	11.35 265	P	Pn		11 56 35.1	+0.6
COEN	Coen	11.61 162	P	Pn		11 56 39.0	+1.0
COEN	Coen	11.61 162	P	Pn		11 56 38.6	+0.5
COEN	Coen	11.61 162	P	Pn		11 56 39.1	+1.0
COEN	Coen	11.61 162	S	Sn		11 58 51.7	+4.7
KDU	Kakadu	12.02 215	P	Pn		11 56 42.6	-0.9
KDU	Kakadu	12.02 215	S	Sn		11 58 57.3	+0.5
KDU	Kakadu	12.02 215	S	Sn		11 56 42.4	-1.2
NLAI	Namlea	12.02 268	P	Pn		11 56 50.8	+1.7
RABU	Rabaul	12.68 286	Ph	Pn		11 56 57.7	+3.1
TNTI	Ternate	12.68 286	Ph	Pn		11 56 50.8	-1.8
TNTI	Ternate	12.68 286	P	Pn		11 56 52.8	+0.1
TNTI	Ternate	12.68 286	P	Pn		11 56 55.1	+2.4
DRS	Darwin Rock St	12.80 221	P	Pn		11 56 53.4	-0.8
MTN	Manton Dam	12.95 219	P	Pn		11 56 55.2	-1.2
MTN	Manton Dam	12.95 219	P	Pn		11 56 55.0	-1.4
MTN	Manton Dam	12.95 219	S	Sn		11 59 19.3	-0.6
MTN	Manton Dam	12.95 219	S	Sn		11 56 55.0	-1.4
MTN	Manton Dam	12.95 219	S	Sn		11 59 22.5	+2.7
SANI	Sanana	15.26 273	P	Pn		11 57 04.7	+0.1
SANI	Sanana	15.26 273	S	Sn		11 59 35.9	+1.3
SANI	Sanana	15.26 273	P	Pn		11 57 05.0	+0.4
SGSI	Sangihe	15.43 295	P	Pn		11 57 30.7	+0.7
MTSU	Mout Surprise	15.90 163	P	Pn		11 57 36.1	0.0
MTSU	Mout Surprise	15.90 163	P	Pn		11 57 38.3	-1.3
KMSI	Kibinong	15.91 282	P	Pn		11 57 37.1	+0.8
KNRA	Kunurra	16.59 219	P	Pn		11 57 43.5	-1.3
KNRA	Kunurra	16.59 219	P	Pn		11 57 44.7	-0.1
SOEI	Soe	16.65 245	I	Amb		11 57 44.4	-1.3
SOEI	Soe	16.65 245	I	Amb		11 57 52.5	
SOEI	Soe	16.65 245	P	Pn		11 57 46.1	+0.4
SOEI	Soe	16.65 245	P	Pn		11 57 46.8	+1.1
LUWI	Luwuk	16.85 276	I	Amb		11 57 46.9	-1.2
LUWI	Luwuk	16.85 276	I	Amb		11 57 52.3	
LUWI	Luwuk	16.85 276	P	Pn		11 57 48.0	-0.1
LUWI	Luwuk	16.85 276	P	Pn		11 57 47.3	-0.8
DAV	Davao City (W)	17.06 305	P	Pn		12 05 09.0	
BBSI	Bau Bau	17.12 261	P	Pn		11 57 53.0	-0.1
GUMO	Gumau	17.37 244	LR	LR		12 04 31.9	
BATI	Baumata	17.37 244	P	Pn		11 57 55.4	+0.7
WB0	Warramunga Arr	17.55 196	P	Pn		11 57 55.0	-1.8
WB9	Warramunga Arr	17.58 196	P	Pn		11 57 54.6	-2.6
WB8	Warramunga Arr	17.60 196	P	Pn		11 57 55.3	-2.2
QIS	Mount Isa	17.60 180	P	Pn		11 57 56.2	-1.3
WB7	Warramunga Arr	17.62 196	P	Pn		11 57 55.6	-2.2
WR8	Warramunga Arr	17.70 196	P	Pn		11 57 56.6	-2.2
WRAB	Tennant Creek	17.72 196	P	Pn		11 57 57.2	-1.8
WRAB	Tennant Creek	17.72 196	deP	Pn		11 57 56.6	-2.4
WRAB	Tennant Creek	17.72 196	deP	Pn		11 57 56.6	-2.4
WRA	Warramunga Arr	17.73 196	P	Pn		11 57 56.2	-3.0
WRA	Warramunga Arr	17.73 196	P	Pn		11 57 56.7	-2.4
WRA	Warramunga Arr	comp=Z, 4.1nm, 0.9s, baz=8.7, slow=22, SNR=9.7		Sn		12 01 06.7	-10
WRA	Warramunga Arr	comp=Z, 0.3nm, 0.3s, baz=15, slow=29, SNR=2.4		Lg		12 03 15.4	
WRA	Warramunga Arr	comp=Z, 2μm, 19.8s, baz=6.0, slow=41		LR		12 05 58.1	
TVIH	Townsville Har	17.79 157	P	Pn		11 58 02.5	+2.0
MRSI	Marisa	17.89 280	P	Pn		11 58 00.8	-0.4
APSI	Ampapa	17.98 276	P	Pn		11 58 02.1	-0.1
MMRI	Maumere	18.14 251	P	Pn		11 58 05.3	+0.9
MMRI	Maumere	18.14 251	P	Pn		11 58 05.2	+0.9
CTAO	Charters Tower	18.35 160	Pn	Pn		11 58 07.2	+0.5
CTAO	Charters Tower	18.35 160	P	Pn		11 58 08.0	+1.3
CTAO	Charters Tower	18.35 160	P	Pn		11 58 07.2	+0.5
EDFI	Ende, Flores	18.69 251	P	Pn		11 58 10.2	-0.3
TOLIZ	Toiloliti	19.15 282	P	Pn		11 58 14.1	-1.5
TOLIZ	Toiloliti	19.15 282	P	Pn		11 58 15.8	+0.3
BSSI	Bau Bau, Buton	19.26 260	P	Pn		11 58 17.4	-0.4
BNSI	Bone	19.45 265	P	Pn		11 58 18.5	-0.3
TTSI	Tana Toraja	19.69 269	P	Pn		11 58 23.0	+0.1
SPSI	Sidrap Palu	19.76 266	P	Pn		11 58 23.9	+0.1
KPI	Kappang	19.85 263	P	Pn		11 58 24.3	+0.3
KAPI	Kappang	comp=Z, 2.6nm, 0.3s, baz=98, slow=44		LR		12 08 25.1	
KAPI	Kappang	comp=Z, 5.7nm, 0.3s		LR			

KAPI	Kappang	19.85 263	P	Pn		11 58 26.1	+1.3
KAPI	Kappang	19.85 263	S	Sn		12 02 11.2	+3.7
KAPI	Kappang	19.85 263	P	Pn		11 58 25.7	+0.9
KAPI	Kappang	19.85 263	deP	Pn		11 58 24.8	0.0
MPSI	Mapaga	comp=Z, 5.0nm, 0.3s		pmax			
BASI	Baung, Sumba	20.20 248	P	Pn		11 58 27.4	+0.5
WSI	Waingapu	20.28 250	P	Pn		11 58 29.8	0.0
FITZ	Fitzroy Crossi	20.38 221	P	Pn		11 58 28.0	-0.8
FITZ	Fitzroy Crossi	20.38 221	P	Pn		11 58 28.1	-0.8
FITZ	Fitzroy Crossi	comp=Z, 36nm, 0.7s, baz=42, slow=12, SNR=70		S		12 02 09.7	-6.5
FITZ	Fitzroy Crossi	comp=Z, 61nm, 1.0s, baz=143, slow=12, SNR=4.6		LR		12 06 57.1	
FITZ	Fitzroy Crossi	20.38 221	P	Pn		11 58 28.2	-0.6
TATA	Tatamba Isabel	20.90 194	P	Pn		11 58 35.8	+1.2
WBSI	Waikabubak, Su	21.12 250	P	Pn		11 58 34.2	-2.8
HNR	Honiara	21.31 109	P	Pn		11 58 38.7	-0.3
AS16	Alice Springs	21.37 194	P	Pn		11 58 38.8	-0.7
AS01	Alice Springs	21.39 194	P	Pn		11 58 39.4	-0.4
AS31	Alice Springs	21.40 194	P	Pn		11 58 39.0	-0.9
ASAR	Alice Springs	21.40 194	P	Pn		11 58 39.5	-0.4
ASAR	Alice Springs	21.40 194	P	Pn		11 58 39.3	-0.6
ASAR	Alice Springs	comp=Z, 56nm, 0.7s, baz=21, slow=9, SNR=103		S		12 02 39.2	+2.7
ASAR	Alice Springs	comp=Z, 26nm, 0.8s, baz=15, slow=26, SNR=6.1		LR		12 07 18.8	
ASAR	Alice Springs	comp=Z, 3μm, 20.1s, baz=24, slow=38		LR			
ALEG	Aligegeo Malai	21.85 106	P	Pn		11 58 48.0	-3.5
PLAI	Plampang	22.44 254	P	Pn		11 58 48.8	-2.3
SMKI	Samarinda	22.44 276	P	Pn		11 58 53.1	+1.9
MYLDM	Lahad Datu	24.47 291	P	I	Amb	11 58 48.0	-3.5
MYLDM	Lahad Datu	24.47 291	I	Amb		11 59 09.8	
MYLDM	Lahad Datu	comp=Z, 162nm, 1.3s		LR		11 58 53.9	+2.4
BKB	Balikpapan	22.68 274	P	Pn		11 58 56.2	+2.6
BKB	Balikpapan	22.68 274	P	Pn		11 58 55.0	+1.4
TWSI	Taliwang, Sumb	23.27 254	P	Pn		11 58 57.9	-1.9
GDIS	Gladstone Soft	23.71 153	P	Pn		11 59 06.6	+2.7
QLP	Quilpie	24.03 170	P	Pn		11 59 06.8	-0.1
QLP	Quilpie	24.03 170	P	Pn		11 59 09.4	+2.5
SRBI	Singaraja	24.75 257	P	Pn		11 59 12.4	-1.3
DNP	Denpasar	24.87 256	P	Pn		11 59 14.2	-0.





9d 12h

Table with columns: Station Name, Time, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like EYAK Cordova Ski Ar, COLD Coldfoot, MDH Macho, UOSS Minazif, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like G26K Porcupine River, F26K Sheenjek River, ARTI Arti, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, Azimuth Error, Elevation Error, and other parameters. Includes stations like WTLV Watson Lake, Y, BELG Belgomoye, etc.

MDD 09 12:05: 11.9,0.4, 44.85N,8.70W, h0km, mb\_Lg3.9/31, Error ellipse: s-maj=3.5km s-min=2.7km az=130.0, LDG 09 12:05: 13.2,0.2, 44.98N,8.63W, h10km, M4.0/40, Error ellipse: s-maj=4.6km s-min=2.3km az=110.0, IGL 09 12:05: 16.7, 44.85N, 8.70W, h2km, ML3.4, Error ellipse: s-maj=0.6km s-min=0.3km az=111.0, \*DIST. FLAG: REGIONAL IFPMA\_REGION: Mar Cantabrico, ISC 09 12:05: 13.5, 1.9, 44.65N,0.07,8.43W,0.07,h10km,n129, e=227/181,1C-6D, North Atlantic Ocean

ELOB Lobios	2.80 174	Pn	Pn	12 06 00.3 +1.9	MOE	i/AML	AML	12 07 54.8	LOR	comp=N,7.3nm,0.2s	eSn	Sn	12 08 51.0 -13	
ELOB				12 06 33.3 +1.1	MOE	i/AML	AML	12 07 55.8	VIVF	Saint-Julien-l'Isle	9.33 84	ePn	Pn	12 07 27.7 -0.3
PCAB Cabril	2.96 174	eP	Pn	12 06 02.9 +2.4	MFF	Saint Martin d	Pn	12 06 42.6 -1.5	VIVF	comp=N,9.6nm,0.3s	eSn	Pn	12 09 05.6 -7.4	
PCAB				12 06 37.4 +1.4	MFF	Saint Martin d	ePn	12 06 42.7 -1.4	SFTF	Sextfontaines	9.96 64	ePn	Pn	12 09 33.0 -3.6
PCAB				12 06 38.5 +1.4	MFF	Saint Martin d	eSn	12 06 46.7 -7.5	SFTF	comp=N,7.1nm,0.2s	eSn	Pn	12 09 13.7 -1.5	
PCAB				12 06 40.4	MFF	5.5nm,0.2s	eSn	12 07 46.8 -7.5	MEZF	Maizieres J'vi	10.05 63	ePn	Pn	12 07 35.5 -2.3
ECAL Calabor	2.98 155	Pn	Sb	12 06 03.8 +2.9	MFF	18m,0.2s	Pn	12 06 41.2 -4.4	MEZF	comp=N,5.0nm,0.3s	eSn	Sn	12 09 17.9 -1.3	
ECAL				12 06 40.0 -3.2	JSA	Saint Aubin	6.24 41	Pn	SMRF	Simiane la Rot	10.06 89	ePn	Pn	12 09 38.5 +0.4
ECAL				12 06 03.8 +2.9	JSA	GRR	6.42 52	ePn	SMRF	comp=N,0.8nm,0.2s	eSn	Pn	12 09 24.9 -6.1	
ECAL				12 06 42.6	JSA	GRR		eSn	SAVF	Savonnières en	10.13 62	ePn	Pn	12 07 33.2 -5.2
ECAL				12 06 40.4	JSA	GRR		eSn	SAVF	Vannieres en	10.13 62	eP	Pn	12 07 40.3 +1.4
PBRG Braganca	3.10 156	eP	Pn	12 06 06.0 +3.4	ESAC	San Caprasio	6.51 114	Pn	BAIF	comp=N,4.5nm,0.2s	eSn	Sn	12 09 21.3 -1.1	
PBRG				12 06 44.7	ESAC			Pn	BAIF	Baives	10.13 53	ePn	Sn	12 07 35.3 -3.7
PBRG				12 06 44.3	ESAC			Pn	BAIF	comp=N,3.4nm,0.2s	eSn	Sn	12 09 17.9 -1.5	
PBRG				12 06 45.1	ESAC			Pn	ORIF	Oris-en-Rattie	10.18 83	ePn	Pn	12 07 40.4 +0.6
POLO Lamas de Olo	3.31 172j	eP	Pn	12 06 07.7 +2.3	LF	La Frestale	6.53 84	ePn	CABF	La Chapelie	10.36 74	eSn	Pn	12 09 27.6 -1.1
POLO				12 06 46.2 +1.4	LF	59nm,0.3s	Pn	12 07 59.9 -4.2	PAGF	Fort de Pagny	10.49 63	eSn	Sn	12 09 27.8 -1.4
POLO				12 06 47.8	DYA	Yadsworth	6.54 26	Pn	GIVF	Givet	10.51 54	ePn	Pn	12 07 41.1 -3.0
POLO				12 06 49.2	DYA			Pn	GIVF	comp=N,6.5nm,0.3s	eSn	Sn	12 09 25.5 -1.6	
ALTO3 Santillana del	3.36 111	Pn	Pn	12 06 08.5 +2.5	PBAR	Barrancos	6.55 170	Pn	HAU	Haudompre	10.76 67	eSn	Sn	12 09 38.1 -1.0
ALTO1				12 06 47.5 +1.6	PBAR	Barrancos	6.55 170	eP	HINF	Hinterfeld	11.05 68	eSn	Sn	12 09 41.1 -1.4
ALTO1				12 06 08.5 +2.5	PBAR	Barrancos	6.55 170	eP						
ALTO2				12 06 48.3 +2.3	PBAR	Barrancos	6.55 170	eS						
ALTO2				12 06 08.5 +2.5	PBAR	Barrancos	6.55 170	eS						
ALTO3				12 06 47.5 +1.6	PBAR	Barrancos	6.55 170	eS						
PVRL Vila Real	3.42 171	eP	Pn	12 06 09.3 +2.8	ECHI	Chisagues Biel	6.56 105	Sn						
PVRL				12 06 48.7 +1.3	ECHI	Beja	6.63 176	eP						
PVRL				12 06 50.8	PBEJ			Pn						
PVRL				12 06 51.9	PBEJ			Pn						
PVRL				12 06 52.9	PBEJ			Pn						
PTO Porto	3.51 182	eP	Pn	12 06 08.9 +0.8	PBEJ			Pn						
PTO				12 06 49.2 -0.6	PBEJ			Pn						
PTO				12 06 49.9	PSIM	Granatula de C	6.79 147	Pn						
PTO				12 06 50.2	PSIM			Pn						
PTO				12 06 50.7	PSIM			Pn						
PTO				12 06 52.7 +2.8	MESJ	Messejana	6.81 179	eP						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						
PTO				12 06 50.7	MESJ			Pn						
PTO				12 06 52.7 +2.8	MESJ			Pn						
PTO				12 06 50.2	MESJ			Pn						

IDC 09 12:54:24.3,2.0,3.64S,126.172E,h0km,mb3.6/2,  
mbmtb3.5/4,ML2.8/2,Error ellipse: s-maj=114.3km  
s-min=27.4km az=67.0,Buru

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
FITZ	Fitzroy Crossi	14.38	182	Op	12 57 50.1	+0.8
WRA	Warramunga Arr	18.08	154	P	12 58 35.7	-1.4
ASAR	Alice Springs	21.9	160	P	12 59 12.1	-0.6
MKAR	Makanchi Array	63.33	328	P	13 04 55.9	+0.7

WEL 09 12:59:29.7,0.7,4.4,54°x16°8E, h5km, M3.6/13,  
ML3.8/10,MLV3.6/13,Error ellipse: s-maj=7.3km  
s-min=3.1km az=130.5,confirmed

NOU 09 12:59:31.8,44.19S,168.27E,h10km,MLv4.1/11, South  
Island, New Zealand

ISC 09 12:59:28.7,1.4,44.27S,0.04x168.13E,0.04,h2km,12km,  
n43,0c71/50, South Island

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
MSZ	Milford Sound	0.43	199	Op	12 59 37.3	+0.4
NSBZ	Neils Beach	0.47	55	Pg	12 59 42.7	+0.3
JCZ	Jackson Bay	0.51	68	P	12 59 39.9	+0.2
JCZ	Jackson Bay	0.51	68	S	12 59 39.6	+1.0
JCZ	Jackson Bay	0.51	68	Pb	12 59 40.1	-0.5
MECS	Makarora Emerg	0.80	88	P	12 59 45.1	-0.2
WKZ	Wanaka	0.85	131	S	12 59 45.3	+0.3
WKZ	Queenstown Pol	0.85	153	P	12 59 55.6	-0.3
MLZ	Mavora Lakes	1.10	180	P	12 59 44.8	-0.3
MLZ	Mavora Lakes	1.10	180	S	12 59 49.2	-0.6
EAZ	Earsclough	1.28	139	Pg	13 00 03.0	-1.0
DCZ	Deep Cove	1.38	210	P	12 59 52.0	+0.2
DCZ	Deep Cove	1.38	210	S	12 59 53.9	+1.2
FOZ	Fox Glacier	1.43	59	P	13 00 11.6	-1.5
LBZ	Lake Benmore	1.48	95	P	12 59 55.1	-0.5
LBZ	Lake Benmore	1.48	95	Pn	13 00 16.1	+1.1
WHZ	Wether Hill Ro	1.63	184	S	12 59 56.4	+0.0
WHZ	Wether Hill Ro	1.63	184	S	13 00 08.8	-0.8
GCSZ	Gaunt Creek Bo	1.86	60	Pn	13 00 08.8	-0.8
ODZ	Otauhua Downs	1.96	114	Pn	13 00 03.6	+0.6
ODZ	Otauhua Downs	1.96	114	S	13 00 29.5	-0.5
ODZ	Otauhua Downs	1.96	114	S	13 00 02.2	+0.2
TUZ	Tuapeka	1.99	148	P	13 00 07.3	+0.2
TMZ	Timaru	2.07	94	P	13 00 05.0	+0.4
PYZ	Puysegur Point	2.15	208	S	13 00 09.9	+1.4
PYZ	Puysegur Point	2.15	208	S	13 00 39.6	+1.7
RPZ	Rata Peaks	2.19	76	Pn	13 00 06.4	+0.8
RPZ	Rata Peaks	2.19	76	Pn	13 00 06.7	+0.8
ARCZ	Arundel	2.22	83	Pn	13 00 06.9	+0.3
WVZ	Waikaha Valley	2.24	59	Pn	13 00 05.9	-0.9
SYZ	Scrubby Hill	2.38	163	Pn	13 00 08.9	+0.2
DRS	Drury	2.38	163	Pn	13 00 09.0	+0.2
HHSZ	Highcliff Hill	2.38	134	Pn	13 00 09.5	+0.6
APZ	The Paps	2.56	182	Pn	13 00 12.2	+0.9
MHCZ	Mount Hutt	2.59	75	Pn	13 00 11.8	+0.1
WACZ	Wakanui South	2.69	84	Pn	13 00 13.4	+0.3
INZ	Inchbonnie	2.69	59	Pn	13 00 14.7	-0.8
OKZ	Oxford	2.89	64	Pn	13 00 05.7	+0.4
MOZ	MQueen's Vall	3.32	82	Pn	13 00 21.7	+0.1
LTZ	Lake Taylor	3.36	65	Pn	13 00 22.2	-0.1
AMCZ	Amberley	3.46	73	Pn	13 00 24.4	+0.8
OKCZ	Okaains Bay	3.60	83	Pn	13 00 25.9	+0.3
DSZ	Denniston Nort	3.66	49	Pn	13 00 02.4	+0.4
KRZ	Quartz Range	4.74	45	Pn	13 00 40.8	-0.3
QHZ	Kahui Hut	6.64	44	Pn	13 01 07.4	+0.0
HIZ	Hauti	7.66	44	Pn	13 01 22.1	+0.8

IDC 09 13:04:34.5,2.3,6.16S,129.36E,h0km,mb3.6/1,  
mbmp3.5/4,ML3.5/3,Error ellipse: s-maj=97.1km  
s-min=28.4km az=75.0

ISC 09 13:07:46.0,1.9,74.5S,129.4E,0.2,h200km,n10,  
s=344/G, Banda Sea

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
SAUI	Saumlaki	2.31	125	P	13 05 30.2	+2.4
FAKI	Fak Fak	4.70	38	P	13 05 54.8	-1.8
DRS	Darwin Rock St	5.92	165	Pn	13 06 17.0	+4.8
MTN	Manton Dam	6.71	153	S	13 07 36.8	-2.3
KDU	Kakadu	6.71	153	P	13 06 25.0	+2.5
KDU	Kakadu	6.71	153	Pn	13 07 34.0	-0.9
FITZ	Fitzroy Crossi	11.93	197	Pn	13 09 43.3	0.0
FITZ	Fitzroy Crossi	11.93	197	S	13 09 43.3	0.0
WRA	Warramunga Arr	14.05	160	Pn	13 08 00.4	+2.0
WRA	Warramunga Arr	14.05	160	S	13 01 27.6	-5.4
ASAR	Alice Springs	17.45	166	P	13 08 45.1	+7.4
ASAR	Alice Springs	17.45	166	S	13 11 51.2	+4.1
MKAR	Makanchi Array	67.31	327	P	13 15 30.5	+9.3

MCSM 09 13:43:43.7,2.7,35°N,9°27'E, h11km, 19km, mb4.3,  
mb4.3,MLV3.8,MLV3.8/2,4

IDC 09 13:43:46.0,0.8,35.23N,26.99E,h0km,mb3.9/17,  
mbmp3.8/28,ML3.5/10,MS3.2/14,Error ellipse:  
s-maj=17.0km s-min=9.2km az=177.0

MOS 09 13:43:47.1,2.35,14N,27.01E,h18km,mb4.2/7,Error  
ellipse: s-maj=7.7km s-min=4.6km az=78.0

ISK 09 13:43:48.3,35.24N,26.91E,h7km,ML3.8/29,  
The 09 13:43:49.8,35°N,18°27'E,2.2E,h1km,2.7km, M3.8/15,  
MLh3.8/15

NEIC 09 13:43:49.2,2.0,35.19N,0.05,26.94E,0.06,h10km,1km,  
mb4.0/7,Error ellipse: s-maj=9.3km s-min=6.5km  
az=132.0

ATH 09 13:43:49.8,35.28N,26.93E,h1km,ML3.8/7,Manual  
Solution by S.Kourakis First location: 2019/06/09  
13:45:02. This location: 2019/06/09 14:25:42 ML

Amplitudes are expressed in micrometers. All distances  
are expressed in degrees Latitude uncertainty: 3 km;  
Longitude uncertainty: 2 km

HLW 09 13:44:18.0,32.96N,27.33E,h31km,21km, M3.4, M3.1

ISC 09 13:47:49.1,0.9,35.23N,0.03,26.92E,0.02,h16km,6km,  
n207,0c175/219,mb3.9/28,MS3.1/9,9C-6D,Crete

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
KARP	Karpathos	0.37	32	Pg	13 43 56.1	-0.7
KARP	Karpathos	0.37	32	Sg	13 44 02.2	+0.2
KARP	Karpathos	0.37	32	Pg	13 43 56.1	-0.7
KARP	Karpathos	0.37	32	P	13 43 56.1	-0.7
KARP	Karpathos	0.37	32	S	13 44 02.2	+0.2
KARP	Karpathos	0.37	32	P	13 43 56.5	+0.5
ZKR	Zakros	0.59	259	Pg	13 44 00.8	-1.3
ZKR	Zakros	0.59	259	P	13 43 59.5	-1.3
ZKR	Zakros	0.59	259	P	13 44 08.0	-1.0
ZKR	Zakros	0.59	259	P	13 44 01.0	0.0
ZKR	Zakros	0.59	259	S	13 44 09.5	+0.3
ARG	Arkhangelos	1.39	45	Pn	13 44 14.6	-0.1
ARG	Arkhangelos	1.39	45	S	13 44 33.9	-0.1
ARG	Arkhangelos	1.39	45	P	13 44 14.4	-0.3
ARG	Arkhangelos	1.39	45	P	13 44 14.9	+0.1
ARG	Arkhangelos	1.39	45	P	13 44 14.4	-0.3
ARG	Arkhangelos	1.39	45	S	13 44 15.3	-0.6
ARG	Arkhangelos	1.39	45	S	13 44 34.0	-0.1

NISR	Nisiros	1.39	7	P	Pb	13 44 14.8	+0.1
IACM	Heraklion	1.52	273	P	Pg	13 44 18.9	+0.6
DATC	Data	1.59	19	Pn	Pn	13 44 17.4	+0.7
THR8	Santorini-Mono	1.66	315	P	Sb	13 44 38.6	+0.5
IDI	Anoyia	1.66	273	Pn	Pn	13 44 18.4	+0.8
IDI	Anoyia	1.66	273	P	Pb	13 44 19.4	+0.4
IDI	Anoyia	1.66	273	P	Pb	13 44 19.1	-0.4
IDI	Anoyia	1.66	273	P	Sg	13 44 42.5	-0.3
IDI	Anoyia	1.66	273	P	Pb	13 44 18.9	-0.6
IDI	36nm,0.3s,baz=88,slow=18,SNR=152						
IDI	102nm,0.3s,baz=322,slow=19,SNR=8.2						
IDI	comp=Z,256nm,19.0s,baz=93,slow=41						
IDI	Anoyia	1.66	273	S	S	13 44 20.1	+0.6
THR6	Thira Island,	1.67	313	P	Sb	13 44 19.5	-0.1
THR9	Santorini-Faro	1.70	312	P	Pn	13 44 20.0	0.0
THR3	Thira Island,	1.71	314	P	Pn	13 44 19.4	+1.2
MLSB	Milias	1.72	1	Pn	Pn	13 44 18.1	+0.4
THR5	Thira Island,	1.73	313	P	Pn	13 44 19.7	+1.0
CMBO	Colombo, Santo	1.75	316	P	Pn	13 44 20.1	+1.3
CMBO	Colombo						
TMBK	Timbaki Heraki	1.77	266	P	Sb	13 44 43.4	+0.8
BODT	Bodrum	1.85	10	Pn	Pn	13 44 22.4	+1.2
BODT	Bodrum	1.85	10	Pn	Pn	13 44 20.9	+0.6
TURT	Turunc	1.88	34	Pn	Pn	13 44 21.5	+0.9
DALY	Dalyan (Mula)	2.12	41	Pn	Pn	13 44 25.4	+1.5
APE	Apeiranthos	2.15	329	Pn	Pn	13 44 25.4	+0.9
APE	Apeiranthos	2.15	329	Pn	Pn	13 44 25.2	+0.7
APE	Apeiranthos	2.15	329	Pn	Pn	13 44 25.4	+0.9
FETY	Fethiye	2.25	51	Pn	Pn	13 44 27.1	+1.4
GVD	Gavdhos	2.36	261	Pn	Pn	13 44 28.8	+1.6
GVD	Gavdhos	2.36	261	P	Pb	13 44 29.8	-1.5
GVD	Gavdhos	2.36	261	P	Pb	13 44 30.1	-1.1
ANTB	Chania	2.37	272	Pn	Pn	13 44 29.4	+2.1
AKAS	AKAS	2.40	65	Pn	Pn	13 44 29.0	+1.1
AKAS	Kas	2.40	65	Pn	Pn	13 44 28.6	+0.7
IMMV	Iera Moni Meta	2.42	276	Pn	Pn	13 44 29.9	+1.9
IMMV	Iera Moni Meta	2.42	276	Pn	Pn	13 44 29.8	+1.8
IMMV	Iera Moni Meta	2.42	276	Pn	Pn	13 44 30.7	-1.6
GCAB	Gezencami?	2.48	6	Pn	Pn	13 44 26.1	+1.4
MHLO	Agia Marina, M	2.51	306	Pn	Pn	13 44 30.4	+0.1
CAME	Cameli-Denizli	2.58	48	Pn	Pn	13 44 31.9	+1.5
KNDR	Palaiochora Ch	2.65	271	Pn	Pb	13 44 34.0	-2.2
AYDB	Zeytinokoy-Aydi	2.82	16	Pn	Pn	13 44 35.7	+2.0
ELL	Elmali	2.86	57	Pn	Pn	13 44 35.9	+1.7
ELL	Elmali	2.86	57	Pn	Pn	13 44 35.6	+1.4
ELL	Elmali	2.86	57	Pn	Pn	13 44 35.6	+1.4
NAZZ	Nazilli-Aydin	2.94	22	Pn	Pn	13 44 36.3	+1.0
APMY	Antipayah-Deniz	2.95	40	Pn	Pn	13 44 37.2	+1.8
ANKY	Anciyithira Is	3.02	283	P	Pn	13 44 37.5	+1.1
GLCB	Galatas	3.45	60	Pn	Pn	13 44 45.4	+2.3
ODEM	Odemis-Izmir	3.18	17	Pn	Pn	13 44 40.4	+1.8
CHOS	Chios Island	3.23	348	Pn	Pn	13 44 40.7	+1.5
CHOS	Chios Island	3.23	348	Pn	Pn	13 44 40.3	+1.0
KORT	Korkueli	3.29	57	Pn	Pn	13 44 41.8	+1.6
KYTH	Kythira Island	3.30	289	Pn	Pn	13 44 41.6	+1.3
ANTB	Antalya	3.45	60	Pn	Pn	13 44 45.4	+2.3
MANI	Manisa	3.51	21	Pn	Pn	13 44 44.4	+1.2
VLI	Velia	3.56	296	P	Pn	13 44 45.1	+1.4
KULA	Kula-Manisa	3.56	23	Pn	Pn	13 44 45.9	+2.0
BASM	Basmaki-Afyon	3.68	42	Pn	Pn	13 44 47.2	+1.7
BCK	Bucak	3.70	52	Pn	Pn	13 44 47.7	+1.9
BCK	Bucak	3.70	52	Pn	Pn	13 44 45.1	+1.8
ATH	Athens Observa	3.76	318	P	Pn	13 44 51.0	+4.5
ISP	Isparta	3.89	47	Pn	Pn	13 44 50.6	+2.3
ISP	Isparta	3.89	47	Pn	Pn	13 44 49.8	+1.5
ISP	Isparta	3.89	47	eP	Pn	13 44 49.6	+1.3
SLUM	Salum	3.99	201	S	Pn	13 44 33.6	+3.9
SLUM	Salum	3.99	201	S	S	13 45 19.3	-1.7
PRK	Paraskevi	4.04	353	P	Pn	13 44 54.0	+3.6
KYMI	Kymi, Euboea I	4.08	327	P	Pn	13 44 52.4	+1.5
LTK	Loutraiki	4.23	312	P	Pn	13 44 56.3	+3.4
VLX	Vlachokerasia	4.25	302	P	Pn	13 44 56.0	+2.7
DB3	El Dabaha	4.40	161	S	Pg	13	



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Scoresbysund, Zalesovo Beam, Songjio Array, Ulaanbaatar, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Kavik River, Dawson, Birch Creek, Barlow Dome, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Parys, Pilgrimsrest, Senekal, Pongola, etc.

NOU 09 13:54:18.8, 14:88S:166:96E, h16km, MLv4.6/14,

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Lakatoro, Luesalemba Tem, etc.

Vanuatu Islands, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Salcha River, Franklin Bluff, etc.

SOME 09 14:17:18.7, 40:90N:83:42E, h15km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Ketmen, Shalkode, etc.

IDC 09 13:54:26.3, 3.4, 68:103N:136:60W, h0km, mb4.0/1,

mbmp3.4/3, ML3.1/2, Error ellipse: s-maj=68.2km s-min=19.8km az=173.0

ANF 09 13:54:29.0, 0.2, 67:76N:136:56W, h12km, 1km, ML3.2/52,

Error ellipse: s-maj=1.4km s-min=1.2km az=32.0

ISC 09 13:54:28.0, 1.0, 67:82N:136:56W, 0.02, h14km, 8km,

n88, s155/122, Northern Yukon Territory

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Barrier River, Blow River, etc.

ILAR Eielson Array 5.17 239 Pn

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Beaver Creek, Coldfoot, etc.

ISC 09 14:17:26.8, 2.5, 41:44N:01:83:43E, 0.09, h10km, n22,

az=200/30, 12C-6D, Southern Xinjiang

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Ketmen, Shalkode, etc.

BUL 09 14:10:10.8, 1.3, 26:07S:29:69E, h10km, MD2.9

PRE 09 14:10:01.1, 0.9, 26:27S:29:28E, h0km, ML2.2,

Suspected explosion, South Africa

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Carolina, Mapu, etc.

IDC 09 14:27:13.6, 0.7, 2:76S: 119:71E, h0km, mb4.0/13,

mbmp4.0/15, ML4.0/2, MS3.7/40, Error ellipse: s-maj=35.3km s-min=12.7km az=64.0

Mu:0.11±.25; Best double couple: M<sub>0</sub>:1.75800e+1016
NP1:0.351,0.0000; a:58.0000; λ:167.0000; NP2:
0.255,0.0000; a:79.0000; λ:32.0000; Principal axes:
T 1.8860, P1g14.0000; Azm307.0000; N -0.2560,
Plg56.0000; Azm58.0000; P -1.6300, Plg30.0000.
Azm209.0000; nst1 refers to body waves, cutoff=40s.
nsta2 refers to surface waves, cutoff=50s. Triangular
moment-rate function

NEIC 09 14:27:18.0±1.6, 2.96S:0.04; 119.43E:0.07, h30km±7km,
m6.5/11 Error ellipse: s-maj=10.2km s-min=5.7km
bz=77.0

ISC 09 14:27:15.7±0.5, 2.93S:0.05; 119.55E:0.06, h10km, n99,
±134/65, mb4.3/22, M3.8/39, Sulawesi

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

KRNET 09 14:33:07.3±0.1, 42.54N:80.79E, h19km, mb3.1
SOME 09 14:33:07.0, 42.58N:80.90E, h20km
NINC 09 14:33:08.0±1.1, 42.64N:80.80E, h0km, mb3.0, mpv3.2,
Error ellipse: s-maj=7.2km s-min=6.3km az=179.0

ISC 09 14:31:10.2±0.3, 42.71N:80.62E:0.07, h0km, 12km,
n23, ±158/39, 7C-50, Kyrgyzstan-Xinjiang border region

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

CATAC 09 14:43:41.6±0.3, 12°N:2°87'W, h49km, M3.5/27,
ML3.5/27, 1C-133D, Error ellipse: s-maj=6.0km
s-min=3.0km az=37.7, confirmed, Near coast of
Nicaragua

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

IDC 09 14:44:34.1±2.0, 0.038S:125.32E, h0km, mb3.2/3,
mbtmp3.2/3, Error ellipse: s-maj=182.8km
s-min=28.4km az=64.0, Southern Malacca Sea

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

IDC 09 14:44:45.0±7.8, 23.333N:142.07E, h75km±106km, mb3.2/4,
mbtmp3.5/5, ML2.4/1, Error ellipse: s-maj=248.7km
s-min=29.2km az=76.0, Volcano Islands region

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.

IDC 09 14:49:29.8±8.2, 17.35S:168.64E, h114km±92km, mb3.4/4,
mbtmp3.7/5, ML3.2/1, Error ellipse: s-maj=99.6km
s-min=37.4km az=152.0

NOU 09 14:49:44.3, 18.91S:168.99E, h175km, MLV3.6/8,
Vanuatu Islands

Table with columns: Code, Station Name, Δ°, AZZ, Phase ID, Time Res, ISC, h m s ISC. Lists various seismic stations and their associated data points.



Table with station names and coordinates: QSPA South Pole Qui, NNA Nana, LPAZ La Paz, CPUP Villa Florida, FINES FINES Array B, MMAI Mount Meron Ar.

NEIC 09 15:53:48.7-1.2, 16:73N-0:04-99:95W-0:02, h16km, 5km, mb4.0/2, Md4.3/158(MEX), Error ellipse: s-maj=6.8km

MEX 09 15:53:51.0-1.1, 16:75N-99:97W, h16km, 15km, MD4.4

ISC 09 15:53:47.9-1.0, 16:71N-0:03-99:95W-0:02, h18km, 3km, n123, az=19/221, 1C, Near coast of Guerrero

Main station list table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, and station details.

Station list table (continued) with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, and station details.

DC 09 16:02:02.5-0.8, 23:94N; 122:54E, h0km, mb3.8/10, mbtmp3.8/11, ML3.3/1, Error ellipse: s-maj=29.1km

NEIC 09 16:02:07.4-0.8, 23:94N-0:06; 122:86E-0:08, h33km, 2km, mb4.1/11, Error ellipse: s-maj=11.5km s-min=5.8km

ASIES 09 16:02:09.3-24:07N-122:66E, h33km, ML4.1, Mw3.6, Moment Tensor Solution, Moment tensor: M33:43953x1021 Np1:

JMA 09 16:02:09.2-0.1, 24:11N-0:8-122:6E-0:6, h33km, MV3.6/13, NW OFF ISHIGAKIJIMA IS

TAP 09 16:02:09.3-24:07N-122:66E, h33km, ML4.1, C

ISC 09 16:02:05.0-0.9, 23:91N-0:02-122:67E-0:02, h19km, 3km, n220, r1343/346, mb3.9/15, 25C-12D, Taiwan region

Main station list table (continued) with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, and station details.

Main station list table (continued) with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, and station details.



2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KURBB Kurchatov Arra, MKAR Makanchi Arra, WSAR Wadi Sarin, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MLR Muntele Rosu, TESR Tescani, SURR Surduc, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like EKA Eskdalemuir Arr, KSAR Korea Array, H01W1 Cape Leeuwin H, etc.



Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Power, and other technical details for various radio stations.

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Table with columns: Code, Station Name, Δ, AZ, Phase ID, Time, ISC. Includes stations like WARRAMUNGA ARR, WRA, ASAR, MKAR, etc.

VAO 09 19:43:16.4+0.8, 6:79N-72:97W, h129km, 10km, mb4.8
NEIC 09 19:43:17.0+2.2, 6:88N-0:07, 73:04W, 0:09, h135km, 6km, mb4.7/131, Error ellipse: s-maj=13.1km s-min=9.4km az=99.0

IDC 09 19:43:17.0+0.4, 6:74N-72:93W, h159km, 3km, mb3.8/22, mbmp4.3/28, Error ellipse: s-maj=9.4km s-min=6.4km az=130.0
RSNC 09 19:43:18.6+0.0, 7:1N-1:73W, h152km, 1km, M4.9, mB5.2, mb5.2, ML4.5, MW(m)B4.6

ISC 09 19:43:17.4+0.4, 6:84N-0:03, 73:07W, 0:03, h154km, 3km, h154km, pP-P, n525, e111/528, mb4.7/91, 2C-2D, North

Main table of station data for Colombia, including stations like BARC, ZARC, NORC, etc.

Main table of station data for various regions, including stations like LCR2, HDC, TBTG, etc.

Main table of station data for various regions, including stations like WVW, FRNY, SADO, etc.

030N	Mendenhall	71.08 332	P	P	19 54 19.1 +0.4	M23K	Glacier View	76.76 332	P	P	19 54 51.6 -0.1	Q17K	Contact Creek	80.44 328	P	P	19 55 12.1 +0.1	
N31M	Braeburn, Yuko	71.20 333	P	P	19 54 20.2 +0.8	DHY	Denali Highway	76.84 333	P	P	19 54 51.4 -0.8	N18K	Kilae Creek	80.56 330	P	P	19 55 12.3 -0.1	
P30M	Million Dollar	71.26 332	P	P	19 54 21.3 +1.5	H25L	Birch Creek	76.86 337	P	P	19 54 51.5 -0.5	M18K	Stony River	80.57 331	P	P	19 55 12.0 -0.4	
P29M	Windy Craggy	71.47 331	P	P	19 54 21.2 +0.1	PWL	Port Wells	76.89 331	P	P	19 54 51.7 -0.7	J19K	Pooman	80.62 334	P	P	19 55 11.8 -0.9	
NEEM	North Greenlan	71.53 5	i P	I Amb	19 54 21.7 +0.3	WAT6	Susitna Watana	76.91 333	P	P	19 54 51.3 -1.4	B21K	Ikpikpuk River	80.68 339	P	P	19 55 13.2 +0.4	
NEEM					19 54 22.6							B21K			I Amb	I Amb	19 55 14.7	
HYT	Haines Junction	71.75 332	P	P	19 54 23.3 +0.5	C27K	Jago River	76.93 340	P	P	19 54 52.7 +0.3	B21K	Ikpikpuk River	80.68 339	P	P	19 55 12.8 0.0	
N30M	Aishikik Lake	71.78 333	P	P	19 54 22.9 0.0	ILAR	Gleason Array	76.97 335	P	P	19 54 53.1 +0.4	C21K	Knifblade Rid	80.69 337	P	P	19 55 12.6 -0.4	
Q29M	Mount Kennedy	72.08 332	P	P	19 54 24.4 -0.5	ILAR	comp=Z,1.8nm,0.8s,baz=112,slow=4.1,SNR=16				19 55 32.5 +1.7	P17K	Kvichak River	80.77 329	P	P	19 55 13.6 +0.1	
YUK6	Outpost Mounta	72.19 332	P	P	19 54 26.0 +0.4	KNK	Knik Glacier	77.04 331	P	P	19 54 53.1 -0.2	Q16K	King Salmon	80.86 328	P	P	19 55 14.1 +0.1	
H31M	Peel River	72.27 338	P	P	19 54 26.1 +0.5	SML	Sawmill	77.05 332	P	P	19 54 53.1 -0.2	F20K	Avaraart Lake	80.87 337	P	P	19 55 14.0 +0.1	
PNL	Peninsula	72.28 331	P	P	19 54 26.7 +0.8	G25K	Bearman Lake	77.08 337	P	P	19 54 53.0 -0.3	A22K	Sinclair Lake	80.93 341	P	P	19 55 14.6 +0.5	
A36M	Sachs Harbour	72.43 345	P	P	19 54 26.3 -0.1	F25K	Christian Rive	77.10 338	P	P	19 54 53.7 +0.2	L18K	Granite Mounta	81.01 332	P	P	19 55 15.1 +0.3	
A36M	Sachs Harbour	72.43 345	P	P	19 54 26.5 +0.1	POKR	Poker Plat Res	77.26 335	P	P	19 54 54.0 -0.4	H19K	Roundabout Mou	81.07 335	P	P	19 55 15.9 +0.9	
YUK4	Talbot Arm	72.45 333	P	P	19 54 26.5 -0.5	SEW	Seward	77.32 330	P	P	19 54 54.9 +0.2	J18K	Innoko River	81.08 333	P	P	19 55 15.6 +0.5	
J30M	Hart River	72.57 336	P	P	19 54 27.4 -0.2	WAT1	Susitna Watana	77.33 333	P	P	19 54 54.8 0.0	O17K	Koliganek Bris	81.12 329	P	P	19 55 15.8 +0.4	
G31M	Satah River	72.70 339	P	P	19 54 28.2 +0.1	PMR	Palmer	77.39 332	P	P	19 54 55.5 +0.4	E20K	Nigu River	81.13 338	P	P	19 55 15.5 +0.1	
M29M	Somme Creek	72.72 334	P	P	19 54 28.8 +0.3	C26K	Camden Bay	77.41 340	P	P	19 54 55.3 +0.2	N17K	Nushagak Hills	81.19 330	P	P	19 55 16.6 +0.8	
F31M	Tsighehtich	72.73 339	P	P	19 54 28.9 +0.6	RND	Reindeer	77.56 333	I Amb	I Amb	19 54 55.8	GCSA	Galena City Sc	81.21 334	P	P	19 55 16.3 +0.6	
K29M	Barlow Dome	72.79 335	P	P	19 54 29.6 +0.7	H24K	Noodor Dome	77.59 336	P	P	19 54 56.7 +0.5	NB2	NORSAR Subarra	81.29 29	P	P	19 55 16.9 +0.6	
L29M	L29M	72.80 334	P	P	19 54 29.1 +0.2	G24K	Hawzenzic Riv	77.60 337	P	P	19 54 57.0 +0.7	NOA	NORSAR Array B	81.29 29	P	P	19 55 16.6 +0.3	
P1NM	Pinnacle	72.82 331	P	P	19 54 30.1 +1.0	RC01	Rabbit Creek A	77.60 331	P	P	19 54 57.0 +0.7	D20K	Etiulik River	81.32 338	P	P	19 55 16.9 +0.6	
I30M	Mount Dempster	72.83 337	I Amb	I Amb	19 54 31.5	MCK	McKinley	77.65 334	P	P	19 54 56.5 -0.1	R16K	Pilot Point	81.32 327	P	P	19 55 17.0 +0.6	
I30M	Mount Dempster	72.83 337	P	P	19 54 30.0 +0.9	D25K	Kavik River	77.76 340	P	P	19 54 57.3 +0.2	M17K	Holitna River	81.34 331	P	P	19 55 16.9 +0.4	
YUKK	Steele Glacier	72.94 332	P	P	19 54 29.5 -0.5	NEA2	Nenana	77.86 335	P	P	19 54 57.6 0.0	G19K	Purcell Mounta	81.36 336	P	P	19 55 16.7 +0.1	
O28M	Mount Upton	72.99 332	P	P	19 54 29.7 -0.7	BRSE	Bradley Lake S	77.91 330	P	P	19 54 58.2 +0.1	E19K	Redstone River	81.48 337	P	P	19 55 17.5 +0.4	
EKA	Eskdalemuir Ar	73.02 34	P	P	19 54 29.4 -0.8	F24K	Squaw Lake	77.92 338	P	P	19 54 58.2 +0.2	P16K	Nushagak River	81.56 329	P	P	19 55 18.4 +0.7	
INK	Inuvik	73.03 340	P	P	19 54 29.7 -0.4	CUTK	Chulitna	78.04 332	P	P	19 54 58.9 +0.2	B20K	Meade River	81.59 340	P	P	19 55 18.1 +0.4	
EPYK	Eagle Plains	73.38 338	P	P	19 54 31.7 -0.5	I23K	Minto, Yukon-K	78.07 335	P	P	19 54 59.0 +0.2	O16K	Kokwok River B	81.62 329	P	P	19 55 17.4 -0.7	
YUK3	Moose Creek	73.41 333	P	P	19 54 31.9 -0.8	SUA	Susitna One	78.14 331	P	P	19 54 59.2 -0.2	F19K	Shalcruckik Mo	81.67 337	P	P	19 55 18.8 +0.7	
G30M	toAh Zraii Nji	73.43 339	P	P	19 54 32.0 -0.5	TRF	Thorofare Moun	78.20 333	P	P	19 54 59.8 -0.1	L17K	Donlin	81.76 332	P	P	19 55 19.0 +0.3	
F30M	Barrier River	73.52 339	I Amb	I Amb	19 54 34.9	CAPN	Captain Cook N	78.25 331	P	P	19 54 59.6 -0.3	K17K	Iditarod	81.78 332	P	P	19 55 18.5 -0.3	
F30M	Barrier River	73.52 339	P	P	19 54 32.8 -0.2	E24K	Your Creek	78.25 338	P	P	19 54 59.4 -0.5	H18K	Honhosha River	81.86 335	P	P	19 55 18.9 -0.3	
CTG	Chitna Glacier	73.58 332	P	P	19 54 33.2 -0.5	H23K	Yukon River	78.26 336	P	P	19 54 59.5 -0.4	D19K	Kuna River	81.86 338	P	P	19 55 19.6 +0.4	
DAWY	Dawson	73.64 335	P	P	19 54 33.5 -0.3	HOM	Homer	78.36 329	P	P	19 55 00.4 -0.1	N16K	Nishlik Lake	81.97 330	P	P	19 55 19.5 -0.4	
MESA	MESA	73.66 331	P	P	19 54 33.8 -0.4	SKT	Skwentna	78.57 332	P	P	19 55 01.2 -0.5	G18K	Tagagawik	81.99 336	P	P	19 55 19.8 -0.1	
TORD	Torodi Ar, Bea	73.69 78	P	P	19 54 33.4 -1.5	D24K	Happy Valley	78.58 339	P	P	19 55 00.9 -0.7	M16K	Timber Creek	82.07 331	P	P	19 55 20.6 +0.2	
TORD					19 55 12.7 -0.8	NOR	Nord	78.59 7	i P	I Amb	19 55 00.3 -1.1	J17K	VABM Dome	82.14 333	P	P	19 55 21.0 +0.3	
H29M	Whitestone	73.75 337	I Amb	I Amb	19 54 37.3	G23K	Bananza Creek	78.60 337	P	P	19 55 01.4 -0.4	CLL	Collin	82.25 39	eP	eP	19 55 21.0 -0.5	
H29M	Whitestone	73.95 337	P	P	19 54 36.1 +0.6	BPWA	Bear Paw Mtn.	78.60 334	P	P	19 55 01.8 0.0	L16K	Owah River	82.32 331	P	P	19 55 21.6 0.0	
G29M	Pine Creek	74.07 338	P	P	19 54 36.6 +0.4	MLY	Manley	78.63 335	P	P	19 55 01.8 -0.2	S14K	Fog Glacier	82.41 336	P	P	19 55 22.5 +0.1	
M27K	Edge Creek, AK	74.21 333	P	P	19 54 37.8 +0.5	Q20K	Shuyak Island	78.63 328	P	P	19 55 01.8 -0.2	F18K	Selawik	82.41 326	P	P	19 55 21.9 -0.1	
I28M	Miner Creek	74.31 336	P	P	19 54 38.6 +0.9	C24K	Franklin Bluff	78.65 340	P	P	19 55 01.1 -0.8	C19K	Lookout Ridge	82.41 339	P	P	19 55 22.3 +0.3	
CRQE	Cirque	74.36 331	P	P	19 54 38.3 +0.2	KDAK	Kodiak Island	78.65 328	P	P	19 55 02.0 -0.2	CHNA	Chernabura Isl	82.45 324	P	P	19 55 22.9 +0.5	
BCAR	Beaver Creek A	74.37 334	P	P	19 54 39.3 +1.3	E23K	Chandalar	78.67 338	P	P	19 55 01.6 -0.6	HFS	Hagfors	82.50 30	P	P	19 55 22.4 -0.3	
L27K	Beaver Creek	74.38 334	P	P	19 54 38.8 +0.7	COLD	Coldfoot	78.75 337	P	P	19 55 02.8 +0.2	O15K	Ungalikthiuk R	82.51 329	P	P	19 55 22.9 +0.2	
MCARA	McCarthy VSAT	74.48 332	P	P	19 54 39.3 +0.7	TOLK	Toolik Lake Re	78.75 339	P	P	19 55 03.3 -0.3	H17K	Granite Mounta	82.51 335	P	P	19 55 22.9 +0.3	
E29M	Blow River	74.55 340	P	P	19 54 38.7 -0.2	N20K	Mount Spurr	78.81 331	P	P	19 55 03.2 +0.1	N15K	Kwethluk River	82.63 330	P	P	19 55 23.7 +0.4	
M26K	Nabesna, AK	74.73 333	P	P	19 54 39.8 -0.3	SPCR	Spurr Chakacha	78.81 331	P	P	19 55 03.6 +0.5	GERES	GERESS Array B	82.78 42	P	P	19 55 22.6 -1.9	
K27K	Chicken	74.76 335	P	P	19 54 39.4 -0.9	O20K	Slope Mountain	78.89 330	P	P	19 55 03.1 -0.5	E18K	Tukpahlearik C	82.78 337	P	P	19 55 24.5 +0.5	
KAIM	Kayak Island	74.80 330	P	P	19 54 39.7 -0.9	OHAK	Old Harbor	78.98 327	P	P	19 55 04.2 +0.2	G17K	Kiwalik Mounta	82.82 335	P	P	19 55 24.8 +0.6	
F28M	Old Crow	74.98 339	P	P	19 54 40.7 -0.7	PPLA	Purkypile	78.99 333	P	P	19 55 04.5 +0.4	J16K	Anvik River	82.83 333	P	P	19 55 24.8 +0.6	
I27K	Kandik River	75.02 336	P	P	19 54 41.9 +0.1	CAST	Castle Rocks	79.00 333	I Amb	I Amb	19 55 05.2	I17K	Unalakleet	82.86 334	P	P	19 55 25.2 +0.9	
L26K	Log Cabin Wild	75.04 334	P	P	19 54 42.3 +0.4	CAST	Castle Rocks	79.00 333	P	P	19 55 04.6 +0.6	M15K	Kasigluk River	82.93 330	P	P	19 55 25.5 +0.8	
BMRM	Bremner River	75.12 331	P	P	19 54 42.5 0.0	H22K	Ishlitalina Cre	79.02 336	P	P	19 55 04.2 +0.2	A19K	Wainwright	82.93 340	P	P	19 55 25.6 +1.0	
H27K	Steamboat Moun	75.17 337	P	P	19 54 42.6 0.0	P19K	Oil Pt	79.16 329	P	P	19 55 04.9 -0.1	SDPT	Sar Point	82.95 325	P	P	19 55 25.5 +0.5	
D28M	Stokes Point	75.17 340	P	P	19 54 41.8 -0.7	I21K	Tanana	79.17 335	P	P	19 55 05.7 +0.9	C18K	Utukok River	82.99 338	P	P	19 55 25.2 +0.1	
E28M	Babbage River	75.19 340	P	P	19 54 42.9 +0.3	D23K	Nanushuk River	79.21 339	P	P	19 55 04.9 -0.1	F17K	Baldwin Pennin	83.05 336	P	P	19 55 25.9 +0.6	
N25K	Chitna, Valde	75.27 332	P	P	19 54 43.4 +0.1	G22K	Bettles	79.21 337	P	P	19 55 05.8 +0.7	B18K	Kokolin River	83.20 339	P	P	19 55 26.4 +0.4	
G27K	Doyon Strip	75.39 338	P	P	19 54 43.5 -0.3	Q19K	Cape Douglas,	79.31 329	P	P	19 55 06.6 +0.8	SPITS	Spitsbergen Ar	83.24 12	P	P	19 55 26.8 +0.7	
J26L	Joseph Creek	75.51 335	P	P	19 54 44.0 -0.7	M20K	Styr River	79.32 332	P	P	19 55 06.3 +0.5	SPITS						19 56 06.2 +0.7
I26K	Coal Creek Min	75.55 336	P	P	19 54 44.5 -0.3	C23K	Itkillik River	79.32 340	P	P	19 55 06.6 +1.0	O14K	Tigukavuyet M	83.25 329	P	P	19 55 26.9 +0.5	
SCRK	Sand Creek	75.56 335	I Amb	I Amb	19 54 47.2	SII	Sitkinak Island	79.43 326	P	P	19 55 06.8 +0.3	E17K	Hotham Inlet	83.26 337	P	P	19 55 27.0 +0.6	
SCRK	Sand Creek	75.56 335	P	P	19 54 44.0 -0.9	E22K	Anaktuvuk Pass	79.50 338	P	P	19 55 07.0 +0.4	L15K	Ungalak Mounta	83.28 331	P	P	19 55 27.1 +0.6	
EYAK	Cordova Ski Ar	75.58 331	P	P	19 54 44.1 -0.8	F22K	John River	79.55 337	P	P	19 55 07.6 +0.7	K15K	Wolf Creek Mou	83.38 332	P	P	19 55 27.5 +0.9	
DAG	Danmarks Havn	75.63 11	i P	I Amb	19 54 44.8 -0.2	R18K	Karluk	79.64 327	P	P	19 55 08.3 +0.9	N14K	Kuskokwak Cree	83.44 330	P	P	19 55 28.3 +0.9	
Q23K	Middleton Isla	75.66 330	P	P	19 54 44.2 -1.2	L20K	Farewell, AK	79.72 332	P	P	19 55 08.6 +0.6	G16K	Koyuk River	83.53 335	P	P	19 55 28.6 +0.9	
HARP	HAARP	75.70 333	P	P	19 54 44.6 -1.1	N19K	Bonanza Creek	79.87 331	P	P	19 55 09.3 +0.5	M14K						



Table with columns: Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like NUBE Las Nubes, CCIG Comitan, and NEUV Arroyo Zacate.

Table with columns: Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SPBC San Pablo de B, PAMC La Esperanza, and NORC Norcasia.

Table with columns: Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CO03 comp=Z,215nm,0.5s, ACCO Cerro Coronal, and DOCA Reserva Natura.

IDC 09 21:11:36.3, 7.3, 5.23S, 148.45E, h120km, 62km, mb2.6/2, mbtmp3.2/3, Error ellipse: s-maj=126.7km

SJA 09 22:00:49.9, 0.8, 27.30S, 71.45W, h16km, 3km, ML3.9, MW3.9

CO03 comp=Z,215nm,0.5s IAML 22 02 47.1

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like PMG Port Moresby, WRA Warramunga Arr, and ASAR Alice Springs.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AC06 Mina Casimiro, GO03 Copiapo, and AC01 Pan de Azucar.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CFA comp=Z,3.2nm,0.3s, baze=331, slow=10, SNR=56, CFA comp=Z,2.4nm,0.3s, baze=24, slow=9.4, SNR=3.9.

IDC 09 21:16:19.2, 16.0, 16.98S, 179.25E, h429km, 59km, mb3.1/3, mbtmp3.9/3, Error ellipse: s-maj=363.7km

ISG 09 22:00:53.8, 0.9, 27.34S, 71.26W, h27km, 15km, ML4.1

CFA comp=Z,3.2nm,0.3s, baze=331, slow=10, SNR=56

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like MSVF Nonsavu, STKA Stephens Creek, and WRA Warramunga Arr.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AC06 Mina Casimiro, GO03 Copiapo, and AC01 Pan de Azucar.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CFA comp=Z,3.2nm,0.3s, baze=331, slow=10, SNR=56, CFA comp=Z,2.4nm,0.3s, baze=24, slow=9.4, SNR=3.9.

TAP 09 21:36:07.1, 23.64N, 121.69E, h31km, ML1.7, D, Taiwan

ISG 09 22:00:50.6, 0.9, 27.26S, 71.14W, h0km, mb4.0/5, mbtmp3.9/8, ML3.5/3, MS3.0/4, Error ellipse: s-maj=36.8km

CFA comp=Z,2.5nm,0.3s, baze=213, slow=11, SNR=7.9

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like TEGC Jichi Village, SHUL Shoufeng, EGFFH Guangfu, and many others.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AC06 Mina Casimiro, GO03 Copiapo, AC01 Pan de Azucar, and many others.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CFA comp=Z,3.2nm,0.3s, baze=331, slow=10, SNR=56, CFA comp=Z,2.4nm,0.3s, baze=24, slow=9.4, SNR=3.9, and many others.

RSNC 09 21:51:06.8, 0.7, 7.1N, 173.3W, h113km, 2km, M2.4, mb3.9, ML2.1, Northern Colombia

ISG 09 22:00:54.0, 0.9, 27.30S, 71.20W, h0.04, h2km, 6km, n101, 1874/139, mb4.2/8, 4C-7D, Near coast of northern Chile

CFA comp=Z,2.5nm,0.3s, baze=213, slow=11, SNR=7.9

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like BARC Barichara, VM10 El Carmen, BRJC Barrancabermej, and many others.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AGUA GUANDACOL, AGUA GUANDACOL, and many others.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CO03 comp=Z,3.2nm,0.3s, baze=331, slow=10, SNR=56, CO03 comp=Z,2.4nm,0.3s, baze=24, slow=9.4, SNR=3.9, and many others.

0.6m,1.0s
MKAR Makanchi Array 59.29 331 P P 22 13 19.2 +2.3
0.2nm,0.5s,baz=130,slow=8,1.SNR=2.4
0.2nm,0.5s

DJA 09 22:08:45.1+1.1,5°N,6°E, h12km,7km, M4.1/6,
mB4.3/2, MLV4.0/0
IDC 09 22:09:03.1+2.4,4.67N,125.25E, h197km,31km, mB3.2/7,
mbmp3.7/8, MS2.7/1, Error ellipse: s-maj=88.5km,
s-min=13.4km az=69.0
ISC 09 22:08:41.3+1.0,5.4N,0.1+126.5E,0.1, h10km, n12,
r1526/12, mb3.77, Mindanao

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include SGSI Sangihe, DAV Davao City (W), TMT Ternate, MRSI Marisa, GUMO Guam, FITZ Fitzroy Crossi, WRA Warramunga Arr, ASAR Alice Springs, STKA Stephens Creek, MKAR Makanchi Array, KURBB Kurchatov Arr, BVAR Borovoye Array.

IDC 09 22:32:08.7+5.9,5.26S,147.72E, h0km, mB3.2/2,
mbmp3.3/3, ML2.9/1, Error ellipse: s-maj=180.2km
s-min=37.5km az=102.0, Eastern New Guinea region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array.

SJA 09 22:39:23.7+0.6,21°31'S,67.45W, h214km,4km, ML4.0,
MW3.9
IDC 09 22:39:25.0+1.6,21°28'S,67.21W, h170km,17km, mB3.6/5,
mbmp4.1/12, Error ellipse: s-maj=21.0km s-min=15.0km
az=75.0
NEIC 09 22:39:25.1+1.7,21°35'S,0.06+67.35W,0.05, h185km,9km,
mB4.3/9, Error ellipse: s-maj=9.3km s-min=6.6km
az=161.0

GUC 09 22:39:26.1+0.7,21°29'S,67.71W, h217km,7km, ML4.2
SCB 09 22:39:26.2+1.2,21°31'S,67.40W, h176km,13km, ML4.2/2,
MW3.6, Error ellipse: s-maj=6.0km s-min=4.0km az=0.0
VAO 09 22:39:27.0+0.6,21°12'S,67.14W, h164km,5km, mB3.9
ISC 09 22:39:25.0+0.6,21°31'S,0.04+67.44W,0.04, h191km,6km,
n137, r1549/169, mB3.9/6, 6C-6D, Chile-Bolivia border
region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include MOCB Mochara, PB09 IPOC Station P, AF01 San Pedro de A, PB01 IPOC Station P, YJA Yavi, GO01 Chusmiza, AOV7 TarijaAc, PB11 IPOC Station P, MKAR Makanchi Array, PZH PanZhiHu.

Main table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include TA01 Diego Aracena, TA02 Huaiquique, S0E0 Opoqueri, S0E1 IPOC Station P, SALTA ToroToro, AOE1 Aiquele, LCO Las Campanas, CO01 Juntas del Tor, PTLB Pontaes e Lacer, CNLB Carrelia, MAJ01 Sao Joao Batis, BDFB Brasilia, ITTB Itaituba, DIAM Diamantina, SMTB Santa Maria, JANB Januaria, MAL2 Monte Alegre, SDBA SAO DESIDERIO, BOAV Boa Vista, TMBT Tom-Au, NBPD Pedra Branca, RCBR Riachuelo, JSC Jenkinsville, SNA1 Sanae, DBIC Dimbokro, GSPA South Pole Qui, TORO Torodi Arr, TORI Torodi Arr, ESCD Sonseca Array, MKAR Makanchi Array, PZH PanZhiHu.

IDC 09 23:03:35.7+3.5,64°96'S,178°91'E, h0km, mB3.5/4,
mbmp3.5/5, ML2.7/1, MS3.6/5, Error ellipse:
s-maj=133.1km s-min=25.9km az=67.0
ISC 09 23:03:37.1+2.4,65.0S,0.2+178.9E,0.5, h10km, n15,
r0520/7, mB3.5/4, MS3.6/4, Bailley Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include VVDA Vanda, VVDA Vanda, GSPA South Pole Qui, GSPA South Pole Qui, URZ Urewera, MAW Mawson, SNA1 Sanae, H01W1 Cape Leeuwin H, H01W2 Cape Leeuwin H, H01W3 Cape Leeuwin H, ASAR Alice Springs, WRA Warramunga Arr, H03S2 Juan Fernandez, H03S3 Juan Fernandez, KBZ Khabaz, BRTR Keskin Array B.

IDC 09 23:04:02.7+6.6,19°90'N,146°49'E, h0km, mB3.5/7,
mbmp3.5/7, Error ellipse: s-maj=258.3km s-min=22.8km
az=80.0
ISC 09 23:04:05.4+9.0,20.0N,0.4+147E, h35km, n7, r0595/7,
mB3.4/7, Mariana Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include WRA Warramunga Arr, SONM Sengiro Array, ASAR Alice Springs, ZALV Zalesovo Beam, MKAR Makanchi Array, KURBB Kurchatov Arr, BVAR Borovoye Array.

STR 09 23:11:24.1+0.9,45°N,4°E, h5km, MLV0.8/7, Error
ellipse: s-maj=0.0km s-min=0.0km az=72.2, preliminary,
France

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include GRN Grenoble, GRN Grenoble, ORIF Oris-en-Rattie, SSB Saint Sauveur.

BER 09 23:18:38.8+2.4,77.47N,18°52'E, h15km, ML0.8,
Confirmed Earthquake, Svalbard region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include SPA0 Spitsbergen Ar, BRBB Barentsburg B, KBS Kingsbay, KBS Kingsbay.

UPP 09 23:19:04.7+0.0,67°33'N,20°20'E, h0km, ML2.1, Unknown,
Sweden

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include KUA Kurraavaara, KUA Kurraavaara, RATU Rautukutsupa, RATU Lalki, KOVU Kouvunsaari, DUNU Dundret, MASU Masugnsbyn, SALU Saitoluokta, SALU Saitoluokta, KIP Kilpisjarvi, PAJU Pajala, ERTU Ertisaerv, HARU Harads.

IDC 09 23:31:41.9+2.2,32°67'N,45°50'E, h0km, mB3.7/5,
mbmp3.6/6, ML2.5/1, MS2.7/4, Error ellipse: s-maj=65.5km
s-min=25.6km az=158.0
TEH 09 23:31:42.2,32°43'N,45°57'E, h8km, g2km
ISN 09 23:31:42.5+0.6,32°45'N,45°77'E, h8km, g2km, ML3.4
ISC 09 23:31:43.2+1.0,32°43'N,0.06+45.76E,0.05, h10km, n41,
r1515/40, mB3.5/4, Iraq

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include IBDR Badra, IBDR Badra, ILBA Ilan Ebn Elzein, BHD Baghdad, BHD Baghdad, GLG1 Gharb, IGHG Galeghaz, IKFM Kafar-mosalman, KGS1 Ghar-e-Shirin, KCHF Cheshme Sefid, IDHR Dhrash, IDOB Doba, ILIN Lien, IBZA Bozab, SNQR Sonqor, Kerman, HSAM Samen.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like IKRK Kirkuk, HAGD Aghdareh, HJBN Hamedan- Ghayeh, etc.

GCG 09 23:36:48.3e-1.2, 13.05N:89.44W, h55km, 12km, MD3.7

SNET 09 23:36:49.4e-0.8, 13.17N:89.37W, h56km, 8km, ML2.6

ISC 09 23:36:46.2e-2.8, 12.9N:01.8947W+0.08, h28km, 13km, n20, c052/28, Off coast of central America

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LALI Alcalda de L, LALI Alcalda de L, LALI Jayaque - finc, etc.

IDC 09 23:57:04.2e-1.5, 11S:146.05E, h124km, 20km, mb3.6/7, mbtmp3.9/10, Error ellipse: s-maj=27.6km s-min=15.4km az=75.0

NEIC 09 23:57:05.9e-1.1, 5.2S:01.145.9E:0.1, h128km, 8km, mb4.1/38, Error ellipse: s-maj=19.9km s-min=12.2km az=56.0

ISC 09 23:57:02.4e-0.7, 5.05S:0.08:145.8E:0.1, h100km, n52, c083/52, mb4.2/23, Eastern New Guinea region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PMG Port Moresby, JAY Jayapura, COEN Coen, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like E19K comp=Z.2.1nm,0.7s, C19K Lookout Ridge, PMR Palmer, etc.

SJA 10 00:06:03.2e-0.7, 24.16S:66.86W, h214km, 4km, ML3.6, MW3.5

IDC 10 00:06:04.2e-2.8, 24.02S:66.72W, h200km, 28km, mb3.7/2, mbtmp3.8/5, Error ellipse: s-maj=32.2km s-min=22.8km az=64.0

ISC 10 00:06:03.7e-0.8, 24.12S:0.04:66.88W+0.05, h200km, n29, c130/44, Salta Province

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SLA San Lorenzo, AZAP Zapla, FSA Santa Barbara, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HOPEN Hopen, JNW Jan Mayen West, LOF Lofoten, etc.

NEIC 10 00:41:08.9e-1.4, 48.4N:0.1:153.3E:0.2, h131km, 7km, mb4.2/13, Error ellipse: s-maj=19.3km s-min=11.5km az=134.0

MOS 10 00:41:08.0e-0.9, 48.20N:152.98E, h141km, mb4.1/7, Error ellipse: s-maj=14.2km s-min=5.7km az=73.7

SKHL 10 00:41:09.2e-0.0, 48.10N:153.40E, h140km, 8km, mb4.5/2, msha5.5/3

KRSC 10 00:41:10.1e-2.6, 48.04N:154.09E, h143km, 53km, M4.2

IDC 10 00:41:10.7e-2.0, 48.29N:153.13E, h152km, 16km, mb3.5/20, mbtmp3.9/24, Error ellipse: s-maj=23.3km s-min=11.9km az=139.0

JMA 10 00:41:11.5e-0.8, 47.7N:8.15E, h1km, MV3.79, FAR FIELD

ISC 10 00:41:08.7e-0.6, 48.07N:0.08:153.39E:0.07, h150km, n134, c183/146, mb3.9/44, 6C-1D, Kuril Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SKR Severo-Kuril's, PAU Puzhetka, PAU Puzhetka, etc.



OSPL 10 01:28:22.8; 1.2, 18.48N; 70.61W, h0km, 5km, ML2.9
SDD 10 01:28:22.4; 2.3, 18.46N; 70.61W, h12km, 30km, MD3.3,
ML3.3, MW3.3

ISC 10 01:28:21.6; 1.0, 18.48N; 0.03; 70.58W; 0.02; h12km, 9km,
n29, c130/47, 30C-2D, Dominican Republic region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BANI, Alto Bandera, Santo Domingo, Santa Catalina, etc.

IDC 10 01:31:57.1; 1.2, 6.70S; 130.08E, h0km, mb4.2/4,
mbmp4.4/8, ML4.6/4, Error ellipse: s-maj=43.6km
s-min=19.7km az=74.0
DJA 10 01:32:12.5; 0.3, 7.5S; 2.13'0E, h177km, 7km, M4.5/15,
mB5.0/7, mb4.3/13, MLV4.6/15, Mw(mB)4.3/7
NEIC 10 01:32:13.1; 0.9, 7.15S; 0.08; 129.50E; 0.08, h132km, 7km,
mb4.1/16, Error ellipse: s-maj=12.0km s-min=11.1km
az=149.0

ISC 10 01:32:13.9; 0.5, 7.27S; 0.05; 129.52E; 0.05, h150km, n69,
c165/73, mb4.0/7, Banda Sea

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SAUI, BANI, BANI, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KNRA, BASI, FITZ, FITZ, etc.

NEIC 10 01:54:58.8; 1.7, 18.88N; 0.07; 145.75E; 0.07,
h104km, 9km, mb4.3/40, Error ellipse: s-maj=12.2km
s-min=8.4km az=141.0
IDC 10 01:54:59.4; 2.2, 18.84N; 145.81E, h129km, 21km,
mb3.5/13, mbmp4.0/16, Error ellipse: s-maj=23.8km
s-min=12.0km az=86.0

ISC 10 01:54:58.3; 0.5, 18.88N; 0.05; 145.8E; 0.1, h109km, n68,
c136/67, mb4.2/31, Mariana Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GUMO, GUMO, GUMO, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like K20K, K20K, CAST, CAST, etc.

SJA 10 01:55:14.9; 0.7, 22.64S; 68.78W, h107km, 4km, ML3.5,
MW3.5
GUC 10 01:55:16.4; 0.8, 22.58S; 68.83W, h108km, 4km, ML3.4
ISC 10 01:55:15.1; 1.4, 22.83S; 0.03; 68.84W; 0.05, h112km, 9km,
n25, c091/41, 4C, Northern Chile

Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PB06, PB06, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PB06, PB06, PB06, etc.

10d 2h

CATAC 10 02:04:07.7.0.6.9'N.4:8'4W. h11km.2km, M3.5/8, MLv3.5/8, Error ellipse: s-maj=10.7km s-min=3.5km az=45.7, confirmed

UCR 10 02:04:08.5.0.8.9'14N.83.94W, h28km.2km, MW3.7, Error ellipse: s-maj=7.1km s-min=4.8km az=10.0, #DIST\_RANGE: LOCAL #PMA\_REGION: W

ISC 10 02:04:07.8.1.3.9'11N.0:05.83.96W.0:04, h18km.4km, n73, #056/82, Costa Rica

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res, ISC. Lists seismic stations in Costa Rica and surrounding areas.

SVSA 10 02:15:50.5.1.4.38'63N.29'13W, h5km.4km, ML3.7(INMG), Error ellipse: s-maj=7.1km s-min=4.8km az=10.0, #DIST\_RANGE: LOCAL #PMA\_REGION: W

INMG 10 02:15:50.5.1.4.38'63N.29'13W, h5km.4km, ML3.7, Error ellipse: s-maj=7.1km s-min=4.8km az=10.0, #DIST\_RANGE: LOCAL #PMA\_REGION: W

ISC 10 02:15:49.7.2.5.38'60N.0:07.29.0W.0:1, h32km.6km, n71, #056/129, Azores Islands

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res, ISC. Lists seismic stations in Azores Islands.

2019 JUN

Main seismic event table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res, ISC. Lists seismic events with station data.

Table with columns: ADH, Station Name, Time, Res, ISC, Pn, S, etc. Lists seismic events with station data.

SJA 10 02:36:44.1+2.2, 21:50S:69'93W, h48km.35km, ML3.4, MW3.6

GUC 10 02:36:46.7.0.7.21'51S:69'76W, h49km.4km, ML3.4

ISC 10 02:36:45.6.1.3.21'39S:0:02.69'91W.0:06, h27km.13km, n26, #076/35, 2C-4D, Northern Chile

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res, ISC. Lists seismic stations for Chilean events.



Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like OHrid, Kipourio, Kozani, Janina, Sarande, Vlorë, Igoumenitsa, Tirane, etc.

Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like NUBE, COEG, COE, COE, etc.

VAO 10 03:16:50.2±2.8, 32.37±71.71W, h10km, mb4.4
SJA 10 03:16:57.9±0.7, 31.96±71.43W, h18km, 3km, ML4.2, MV4.1
GUC 10 03:17:01.4±0.9, 31.98±71.26W, h55km, 3km, ML4.4
NEIC 10 03:17:01.8±1.3, 31.94±71.31W, h48km
NEIC 10 03:17:01.9±1.5, 31.96±71.29W, h50km, 2km, mb4.6±0.2, Mw1.4, (GUC) Error ellipse: s-maj=8.2km s-min=4.4km az=92.0 Moment Tensor Solution. Moment tensor: Scale 10^15Nm; Mr2.33; Mw=0.09; Mw=2.23; Mw=0.36; Mw=0.92; Mw=2.02; Fault plane solution: Ms3.20000±0.10° NP1=331.82000°, 325.68000°, 176.63000°. NP2=166.59000°, 665.06000°, 196.34000°. Principal axes: T 3.0890, Plg69.0000, Azm89.0000; N 0.2107, Plg6.0000, Azm344.0000; P -3.2997, Plg20.0000, Azm252.0000; IDC 10 03:17:02.1±0.5, 31.96±71.18W, h58km, 4km, mb4.1/9, mbtmp4.2/14, MS3.1/7 Error ellipse: s-maj=14.2km s-min=9.8km az=163.0

ISC 10 03:17:01.4±0.5, 31.96±71.24W, 0.04, h54km, 4km, n183, 1967/223, mb4.6/21, MS3.4/4, 6C-14D, Near coast of central Chile

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like VA06, CO02, VA03, VA01, etc.

CATAC 10 03:16:08.9±0.6, 13°N±4°8'9W±1, h29km, 3km, MD3.0/16, MLv3.0/16, Error ellipse: s-maj=9.5km s-min=3.8km az=115.5, confirm

SNET 10 03:16:08.9±0.7, 13.33N±89.46W, h57km, 6km, ML3.2
GCG 10 03:16:10.2±0.4, 13.37N±89.49W, h58km, 3km, MD3.5
ISC 10 03:16:08.9±1.9, 13.33N±89.51W±0.06, h66km, n64, 0075/69, 6D, El Salvador

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JAYA, JAYA, JAYA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MT02, CO06, MT10, etc.

Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like VA05, MT15, MT08, etc.



Table with columns: CPUP, S, Sn, 03 22 31.4 -4.3, etc. Includes stations like PB16, LPZ, LPZA, LPZB, etc.

Table with columns: PZH, PanZhiHua, 171.80 PKP, 03 27 03.7 -0.8, etc. Includes stations like ABDR, SC01, SC01, etc.

Table with columns: GCG, 10 03:50:20.6:1.0, 14:77N:92:45W, h67km, 6km, MD4 0, etc. Includes stations like THIG, SMCA, CATARINA, etc.

Table with columns: SDDR, IeSg, Sb, Time, Res. Includes entries for Presa de Saban, Restauracion, and Hatoy Mayor del.

Table with columns: AGG, Pn, Time, Res. Includes entries for Agios Georgios, Data, Neokhori, Makrakomi, Fth, etc.

Table with columns: MTO3, Pn, Time, Res. Includes entries for Monteicristo, Esquiquias, etc.

ISK 10 04:46:33.9, 36.44N:23.98E, h12km, ML3.1/17
ATH 10 04:46:36.6, 36.39N:23.95E, h65km, 4km, ML3.2/19,
Manual Solution by A.Papageorgiou First location:
2019/06/10 04:47:37, This location: 2019/06/10 13:34:12

Table with columns: EVGI, Pn, Time, Res. Includes entries for Lefkada island, Nydri-Lefkada, etc.

Table with columns: Code, Station Name, Time, Res. Includes entries for FITZ, FITZ, WRA, etc.

THE 10 04:46:36.8, 36.1N: 2.4E, h68km, 3km, M3.0/24,
MLh3.024
HLW 10 04:46:37.6, 36.24N:24.75E, h27km, 1.7km, M3.5, M13.6

Table with columns: Code, Station Name, Time, Res. Includes entries for MHLO, MHLO, KTHA, etc.

Table with columns: Code, Station Name, Time, Res. Includes entries for ASAR, ASAR, MKAR, etc.

ISC 10 04:57:03.2, 1.5, 53.13N:85.42E, h0km, mbtmp2.4/2,
ML2.1/2, Error ellipse: s-maj=13.5km s-min=9.2km
az=103.0, Southwestern Siberia

Table with columns: Code, Station Name, Time, Res. Includes entries for I46RU, ZALV, ZALV, etc.

ASRS 10 05:20:13.0, 0.6, 54.20N:87.19E, h0km, M2.3,
The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM.
ISC 10 05:20:15.7, 3.6, 54.28N:87.29E, h0km, mbtmp2.6/2,
ML2.3/2, Error ellipse: s-maj=32.4km s-min=20.7km
az=49.0, Southwestern Siberia

Table with columns: Code, Station Name, Time, Res. Includes entries for I46RU, ZALV, ZALV, etc.

SNET 10 05:10:06.0, 0.8, 13.02N:89.47W, h32km, 9km, ML3.5
CATA3 10 05:10:06.0, 0.5, 13.0N:89.9W, h26km, 3km, M3.4/22,
ML3.4/22, Error ellipse: s-maj=6.5km s-min=3.6km
az=24.7, confirmed

GCG 10 05:10:07.0, 0.6, 0.6, 13.11N:89.51W, h48km, 10km, MD3.8,
ML3.2

ISC 10 05:10:07.0, 1.6, 13.03N:0.06:89.46W, 0.04, h29km, 12km,
n92, 0:47/99, 9C:2D, El Salvador

Large table with columns: Code, Station Name, Time, Res. Includes entries for LALI, LALI, JAYA, etc.

VAO 10 05:27:13.0, 0.6, 22.34S:69.06W, h58km, 4km, mb5.1
SJA 10 05:27:21.6, 1.9, 22.40S:68.65W, h95km, 10.4km, MW4.7
NEIC 10 05:27:22.0, 0.4, 22.34S:69.06W, 0.04, h106km, 3km,
mb4.7165, Mw4.731, Mw4.816, Mw4.8(GUC), Error ellipse:
s-maj=5.8km s-min=4.7km az=189.0, Moment
Tensor Solution. Moment tensor: Scale 10^16Nm;
Mr=0.19; M0=0.04; M1=0.6; M2=0.20; M3=1.36;
Fault plane solution: Mo1,460000, h516 NP1:
0.341, 220000, 885,540000, -1.84, 910000. Principal axes:
T 1.4930, P1g40.0000, Azm66.0000; N -0.0741,
P1g5.0000, Azm161.0000; P -1.4189, P1g49.0000,
Azm257.0000.

ISC 10 05:27:22.0, 0.6, 22.30S:68.42W, h104km, 4km, mb4.2/15,
mbtmp2.0/20, MS3.5/17, Error ellipse: s-maj=15.4km
s-min=11.1km az=74.0

NEIC 10 05:27:23.1, 22.34S:68.65W, h110km
GUC 10 05:27:23.0, 0.4, 22.33S:68.67W, h103km, 4km, ML4.6
NEIC 10 05:27:23.1, 22.34S:68.76W, h110km, Moment
Tensor Solution. Duration: 1s3 Moment tensor: Scale 10^16Nm;
Mr=0.71; M0=0.77; M1=1.48; M2=0.21; M3=1.01; Mr=1.86;
Fault plane solution: Mo2,270000, h1016 NP1:
0.200, 930000, 816, 810000, -0.61, 460000. NP2:
0.351, 330000, 875, 280000, -1.98, 220000. Principal axes:
T 2.5464, P1g90.0000, Azm88.0000; N -0.7414,
P1g8.0000, Azm353.0000; P -1.8050, P1g59.0000,
Azm250.0000.

NEIC 10 05:27:23.2, 33S:68.65W, h107km
GCMT 10 05:27:25.1, 0.4, 22.45S:0.03:68.65W, 0.03, h128km, 7km,
MW4.8/77, Moment Tensor Solution. s10:c10; s77:c90;
Duration: 0 Moment tensor: Scale 10^16Nm; Mr=0.71; 1.3;
M0=0.58; 1.6; M1=0.13; 2.3; M2=0.43; 0.7; M3=0.03; 1.4;
Mr=2.02; 11; Best double couple: Mo2,117000, h1016
NP1:0.134, 000000, 87, 000000, -1.21, 000000. NP2:
0.346, 000000, 884, 000000, -1.86, 000000. Principal axes:
T 1.8430, P1g99.0000, Azm73.0000, N 0.5480,
P1g4.0000, Azm166.0000; P -2.3910, P1g5.0000,
Azm20.0000; nst1 refers to body waves, cutoff=40s.
nst2 refers to surface waves, cutoff=50s. Triangular
moment-rate function

ISC 10 05:27:21.9, 0.4, 22.33S:0.02:68.60W, 0.04, h103km, 3km,
h103km:PP-N, n353, 1:814/300, mb4.7/91, 15C-3D,
Northern Chile

Table with columns: Code, Station Name, Time, Res. Includes entries for AF01, AF01, AF01, etc.

PB05	eS	Sn	05 28 09.4	-0.7		
PB05	IAML		05 28 17.1			
comp=E,1.0um,0.7s						
PB05	IPOC Station P	1.57 250	eP	Sn	05 27 49.3	-0.1
PB05	eS		05 28 09.0	-1.2		
PB05	IAML		05 28 13.4			
comp=Z,8um,0.9s						
BI03	eP	Pn	05 27 56.9	+0.3		
PI03	eS	Sn	05 28 23.4	+0.3		
FX03	IAML		05 28 29.0			
comp=N,4um,0.6s						
PB10	IPOC Station P	2.15 236	eP	Pn	05 27 56.8	+0.2
PB10	eS		05 27 55.9	-0.8		
PB10	IAML		05 28 20.9	-2.2		
PB10	eS	Sn	05 28 20.0	-3.2		
PB10	IAML		05 28 33.0			
comp=Z,4um,0.4s						
PB08	IPOC Station P	2.24 347	eP	Pn	05 27 59.9	+1.8
PB08	eS		05 27 59.8	+1.7		
PB08	IAML		05 28 27.4	+1.7		
PB08	eS	Sn	05 28 00.1	+2.0		
PB08	eS	Sn	05 28 23.4	-2.3		
TA01	Diego Arcarena	2.29 340	eP	Sn	05 27 58.2	-0.2
TA01	eS		05 28 26.5	+0.2		
TA01	IAML		05 27 58.2	-0.2		
TA01	eS	Sn	05 28 24.6	-1.7		
TA01	IAML		05 28 33.3			
comp=N,3um,0.4s						
TA01	Diego Arcarena	2.29 320	eP	Pn	05 27 58.4	0.0
TA01	eS		05 28 24.3	-2.0		
TA01	IAML		05 28 35.6			
comp=Z,2um,0.5s						
TA02	Huiqui	2.50 325	eP	Pn	05 28 01.0	-0.1
TA02	eS		05 28 05.2	-0.5		
TA02	IAML		05 28 01.0	-0.1		
TA02	eS	Sn	05 28 28.9	-2.3		
TA02	IAML		05 28 37.6			
comp=Z,1um,0.3s						
GO01	Chusmiza	2.70 348	eP	Pn	05 28 05.9	+1.6
GO01	eS		05 28 05.3	+1.0		
GO01	eS	Sn	05 28 28.9	-7.9		
GO01	eS	Sn	05 28 30.9			
PB11	IPOC Station P	2.74 339	eP	Pn	05 28 05.0	+0.5
PB11	eS		05 28 04.0	+0.2		
PB11	IAML		05 28 34.6	-2.6		
PB11	eS	Sn	05 28 45.1			
comp=E,2um,0.4s						
PB11	IPOC Station P	2.74 339	eP	Pn	05 28 04.7	+0.2
PB11	eS		05 28 05.2	-0.5		
PB11	IAML		05 28 45.5			
comp=Z,2um,0.8s						
PB14	IPOC Station P	2.82 216	eP	Pn	05 28 05.6	-0.1
PB14	eS		05 28 05.2	-0.5		
PB14	IAML		05 28 37.7	-1.7		
PB14	eS	Sn	05 28 49.9			
comp=N,4um,0.5s						
PB14	IPOC Station P	2.82 216	eP	Pn	05 28 04.7	-1.0
PB14	eS		05 28 28.4	-1.1		
PB14	IAML		05 28 34.4			
comp=Z,7um,0.7s						
PB14	eS		05 28 37.9			
YJA	Yavi	2.86 88	eP	Pn	05 28 09.8	+3.4
GO02	Mina Guanaco	2.96 198	eP	Pn	05 28 07.7	+0.2
GO02	eS		05 28 07.0	+0.2		
GO02	eS	Sn	05 28 42.6	0.0		
SLA	San Lorenzo	3.71 131	eP	Pn	05 28 20.8	+4.0
AZAP	Zapla	3.76 121	eP	Pn	05 28 20.4	+2.3
PB16	IPOC Station P	4.06 348	eP	Pn	05 28 23.7	+1.1
PB16	eS		05 28 23.4	+0.8		
PB16	IAML		05 28 55.1	-1.4		
PB16	eS	Sn	05 29 55.9			
comp=Z,382nm,1.0s						
AC01	Pan de Azucar	4.22 205	eP	Pn	05 28 22.1	-2.0
AC01	eS		05 28 22.1	-2.0		
AC01	IAML		05 28 26.1	-3.2		
AC01	eS	Sn	05 29 26.4			
comp=Z,4um,0.8s						
AP01	Chacalluta	4.26 337	eP	Pn	05 28 24.9	+0.2
FSA	Cafayete	4.46 148	eP	Pn	05 28 30.1	+2.5
AC02	Mariungu	4.51 186	eP	Pn	05 28 27.9	-0.6
AC02	eS		05 29 05.5	-1.5		
AC02	IAML		05 29 55.0			
comp=Z,1um,0.5s						
PB18	Visviri	4.79 350	eP	Pn	05 28 31.4	-1.0
AC06	Mina Casimiro	5.25 197	eP	Pn	05 28 36.2	-2.0
GO03	Copiapo	5.45 195	eP	Pn	05 28 38.8	-2.0
LPAZ	La Paz	6.03 4	eP	Pn	05 28 52.2	+3.0
LPAZ	eS		05 28 51.1	+1.9		
comp=Z,28nm,0.5s,baz=192,slow=5.8,SNR=9						
LPAZ	eS	Sn	05 29 45.6	-1.2		
comp=Z,4.7nm,0.9s,baz=192,slow=16,SNR=6.3						
LPAZ	eP		05 28 40.2	-9.0		
LPAZ	eS		05 28 47.7	-4.1		
AC05	Llanos de Chal	6.26 200	eP	Pn	05 28 47.7	-2.8
AC05	eS		05 28 57.2	-3.8		
CO01	Juntas del Tor	7.74 190	eP	Pn	05 29 09.6	-2.4
CO05	La Serena	7.92 197	eP	Pn	05 29 09.8	-4.5
GO04	Tololo Observa	8.06 194	eP	Pn	05 29 12.2	-4.2
CO03	El Pedregal	8.68 192	eP	Pn	05 29 20.4	-4.3
CO06	Fray Jorge	8.74 186	eP	Pn	05 29 19.4	-6.1
BBSD	Serra de San D	9.10 57	eP	Pn	05 29 26.4	-3.9
CO02	Combarbal	9.10 193	eP	Pn	05 29 25.0	-5.4
CFA	Coronel Fontan	9.24 178	eP	Pn	05 29 28.9	-3.4
comp=Z,6.8nm,0.3s,baz=260,slow=16,SNR=49						
CFA	eS	Sn	05 31 04.8	-10.0		
comp=Z,9.3nm,0.4s,baz=248,slow=11,SNR=1.1						
SIV	San Ignacio	9.50 50	eP	Pn	05 29 33.8	-2.1
comp=Z,9.4nm,0.5s,baz=248,slow=7.5,SNR=643						
SIV	eS	Sn	05 31 10.8	-10.0		
comp=Z,28nm,0.9s,baz=304,slow=22,SNR=7.2						
MURT	Porto Murthino	10.22 88	eP	Pn	05 29 43.0	-2.6
VA06	Catalpio	10.47 193	eP	Pn	05 29 42.7	-6.2
VA03	San Esteban	10.54 189	eP	Pn	05 29 45.4	-4.6
PAZ	Pedraza	10.83 189	eP	Pn	05 29 53.7	-1.6
CPUP	Villa Florida	11.05 113	eP	Pn	05 29 50.0	-1.5
CPUP	Villa Florida	11.02 113	eP	Pn	05 29 54.8	-1.7
comp=Z,2.7nm,0.7s,baz=150,slow=12,SNR=17						
MT02	Bucacav	11.12 191	eP	Pn	05 29 54.5	-3.2
MT08	Coracoma Ro	11.14 186	eP	Pn	05 29 55.6	-2.7
MT05	Renca	11.18 189	eP	Pn	05 29 55.6	-3.1
MT16	CCHEN	11.19 188	eP	Pn	05 29 54.5	-4.3
MT03	Universidad Ad	11.25 188	eP	Pn	05 29 54.9	-4.7
PTLB	Pontes e Lacer	11.27 54	eP	Pn	05 29 57.5	-2.4
PTLB	eS		05 29 56.5	-3.3		
MT13	San Alfonso	11.47 187	eP	Pn	05 29 57.9	-4.7
LMEL	Las Mejoras	11.56 187	eP	Pn	05 30 00.8	-3.0
VA05	Santo Domingo	11.60 193	eP	Pn	05 29 58.3	-5.8
MT09	Talagante	11.60 190	eP	Pn	05 29 58.3	-5.9
MT01	Popeta	11.73 191	eP	Pn	05 29 59.1	-6.8
BO04	La Punta	11.75 188	eP	Pn	05 30 00.2	-6.0
SUYP	San Juanito	11.76 186	eP	Pn	05 30 01.4	-2.3
AQDB	Aquidauana	12.16 84	eP	Pn	05 30 09.3	-2.4
AQDB	eS		05 30 08.5	-3.2		
BO01	Tunca	12.22 190	eP	Pn	05 30 05.0	-7.3
VILB	Vilhena	12.28 42	eP	Pn	05 30 11.9	-1.5
VILB	eS		05 30 09.9	-4.6		
BO02	Sierra Bellavi	12.56 186	eP	Pn	05 30 12.6	-5.5
NNA	Nana	12.95 321	eP	Pn	05 30 26.7	-2.1
comp=Z,12nm,0.9s,baz=209,slow=13,SNR=4.7						
IT0B	Itaqui	13.01 127	eP	Pn	05 30 19.5	-3.4
ML02	Parimavida	13.61 190	eP	Pn	05 30 30.2	-0.4
SALV	Santo Antonio	13.77 65	eP	Pn	05 30 37.7	-2.3
RPRD	Ribas do Rio P	14.00 85	eP	Pn	05 30 34.6	-1.1
H03N1	Juan Fernandez	14.33 217	eP	Pn	05 30 45.1	+1.5
baz=114,slow=15,SNR=13						
H03N1	T		05 43 20.5			
baz=43,slow=72,SNR=65						
H03N2	Juan Fernandez	14.34 217	eP	Pn	05 30 44.8	+1.0
baz=114,slow=15,SNR=9.9						
H03N2	T		05 43 02.1			
baz=43,slow=72,SNR=50						
H03N3	Juan Fernandez	14.35 217	eP	Pn	05 30 44.0	+0.1
baz=114,slow=15,SNR=16						
H03N3	T		05 43 01.0			
baz=43,slow=72,SNR=64						
VA04	San Fabin de	14.44 216	eP	Pn	05 30 40.2	-1.1
BI02	San Fabin de	14.47 189	eP	Pn	05 30 40.8	-1.0

H03S3	Juan Fernandez	14.62 216	P	Pn	05 30 41.0	-2.3
baz=22,slow=18,SNR=4.0						
H03S1	Juan Fernandez	14.63 216	P	Pn	05 30 41.3	-2.1
baz=22,slow=18,SNR=4.4						
H03S2	Juan Fernandez	14.63 216	P	Pn	05 30 40.8	-2.7
baz=22,slow=18,SNR=4.4						
TRCB	Terra Rica	14.76 95	eP	Pn	05 30 45.0	-0.6
PI03	Punta Hualpin	14.91 94	eP	Pn	05 30 45.4	-1.9
CZSB	Cruzeiro do Su	15.04 344	eP	Pn	05 30 48.6	-0.6
CZSB	Cruzeiro do Su	15.04 344	eP	Pn	05 30 40.9	-3.9
CZSB	Chapadão do Su	15.18 79	eP	Pn	05 30 50.4	-0.5
PTGB	Pitanga	15.35 102	eP	Pn	05 30 52.6	-0.5
PDRB	Porto dos Gas	15.56 49	eP	Pn	05 30 53.7	-2.0
ITAB	Concordia	15.73 111	eP	Pn	05 30 57.3	-0.4
ITAB	Concordia	15.73 111	eP	Pn	05 30 55.5	-2.2
CFBS	Cacapava Do Su	15.78 124	eP	Pn	05 30 57.9	-1.6
PCMB	Pacambu	16.10 91	eP	Pn	05 31 01.2	-1.2
LDASE	Londrina, Braz	16.15 97	eP	Pn	05 31 02.5	-0.5
PLTB	Pedras Altas	16.32 128	eP	Pn	05 31 02.3	-2.7
TRQA	Tomquist	16.68 162	eP	Pn	05 31 08.5	-0.8
CLDE	Colider	16.73	eP	Pn	05 31 07.3	-2.8
ARAG	Araguaiana, MT	17.18 70	eP	Pn	05 31 14.7	-0.9
ITRB	Iturama	17.23 85	eP	Pn	05 31 15.7	-0.6
CNLB	Canela	17.42 117	eP	Pn	05 31 17.7	-0.5
LR03	Pangipulli	17.51 97	eP	Pn	05 31 17.4	-2.1
FR1B	Franca	17.58 97	eP	Pn	05 31 19.9	-0.2
ATAH	Atahualpa	17.81 327	eP	Pn	05 31 25.0	+2.2
comp=Z,2.7nm,0.7s,baz=18,slow=4.6,SNR=4.1						
LR05	Currie	18.08 188	eP	Pn	05 31 23.6	-1.8
TBTG	Tabatinga, AM	18.08 356	eP	Pn	05 31 25.8	+0.1
TBTG	Tabatinga, AM	18.08 356	eP	Pn	05 31 13.6	-5.9
PLCA	Paso Flores	18.42 185	eP	Pn	05 31 28.9	-0.4
PLCA	Paso Flores	18.42 185	eP	Pn	05 31 29.1	-0.2
comp=Z,6.9nm,0.7s,baz=354,slow=10,SNR=22						
PLCA	eP	Pn	05 35 56.0	+0.3		
comp=Z,1.3nm,0.6s,baz=117,slow=2.3,SNR=17						
PLCA	eP	LR	05 38 51.9			
comp=Z,1.11nm,18.7s,baz=7.0,slow=37						
PLCA	Paso Flores	18.42 185	eP	Pn	05 31 23.3	-5.9
MAJ01	Sao Joao Batis	18.47 110	eP	Pn	05 31 28.5	-1.3
LL03	Petrohué	19.03 199	eP	Pn	05 31 33.1	-1.9
TEFE	Tefe	19.10 12	eP	Pn	05 31 32.9	-3.8
LL05	Los Muermos	19.46 191	eP	Pn	05 31 40.7	+0.3
SNDB	Serra Nova Dou	19.46 61	eP	Pn	05 31 38.9	-1.7
SPB	Sao Paulo	19.53 98	eP	Pn	05 31 40.9	-0.5
SPB	Sao Paulo	19.53 98	eP	Pn	05 31 40.0	-1.4
IPMB	Ipameri, GO	19.62 81	eP	Pn	05 31 42.0	-1.2
PET01	Nhanhaem-SP	19.68 100	eP	Pn	05 31 41.9	-1.1
NPGB	Nono Progresso	19.85 42	eP	Pn	05 31 42.3	-2.5
VAO	Vaiinhos	19.98 96	eP	Pn	05 31 45.0	-1.3
VAO	Vaiinhos	19.98 96	eP	Pn	05 31 45.0	-1.3
LL01	San Ignacio de	20.25 188	eP	Pn	05 31 48.4	+0.5
MACA	Manacapuru-AM	20.54 23	eP	Pn	05 31 50.9	-1.4
MACA	Manacapuru-AM	20.54 23	eP	Pn	05 31 49.7	-2.6
BDFB	Brasilia	20.56 75	eP	Pn	05 31 51.3	-1.3
BDFB	Brasilia	20.56 75	eP	Pn	05 31 51.0	-1.7
comp=Z,2.0nm,0.6s,baz=262,slow=11,SNR=44						
BDFB	eP	LR	05 41 06.0			
comp=Z,1.46nm,18.1s,baz=244,slow=40						
LL02	Futaleuf	20.98 187	eP	Pn	05 31 56.9	+0.1
PMNB	Patos de Minas	21.10 94	eP	Pn	05 31 55.1	-1.9
GO07	Millado Hill,	21.15 190	eP	Pn	05 31 58.2</	







Table with columns: CRJC, Correjon, Guaj, 9.41 210, P, Pn, 06 51 13.2 +0.7, etc. Lists various seismic stations and their parameters.

Table with columns: NVAR, Mina Array Bea, 47.29 305, P, P, 06 57 31.8 +1.9, etc. Lists seismic stations in the Irian Jaya region.

Table with columns: NRN, Naryn, 63.14 38, P, P, 07 10 07.5 +0.9, etc. Lists seismic stations in the Cordoba region.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for JAYA, PANCS, LOMA, LOMA, LOMA, etc.

NEIC 10 07:28:17.5:1.3, 19°16'N, 0°05:68.22'W, 0.04, h35km, 2km, ML2.4/22, Md2.9/10 (RSPR), Error ellipse: s-maj=9.0km s-min=6.5km az=209.0

RSPR 10 07:28:19.0, 19 07:28:68.22'W, h67km, 6km, Md2.9/10 ISC 10 07:28:18.2:1.6, 19.1N, 0.1:68.23'W, 0.05, h62km, 22km, n40, c1507/46, 9C-4D, North Atlantic Ocean

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for HIDR, SMDR, IDE, AGPR, AGPR, AGPR, etc.

NEIC 10 07:31:08.6:1.6, 19.41N, 0.0:66.68'W, 0.05, h10km, 2km, ML2.5/24, Md2.8/13 (RSPR), Error ellipse: s-maj=12.4km s-min=3.9km az=37.0

RSPR 10 07:31:11.9, 19 37:31:68.17'W, h86km, 7km, Md2.8/13 ISC 10 07:31:12.8:1.6, 19.3N, 0.1:66.18'W, 0.05, h52km, 37km, n46, c136/57, 12C-3D, North Atlantic Ocean

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for HIDR, SMDR, IDE, AGPR, AGPR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for PRSN, LSP, LSP, etc.

ASRS 10 07:40:20.0:0.6, 53.66N, 86.78E, h0km, M2.3, The earthquake of Russia in 2019. Obninsk, GS RAS, 214 p + C-D-F-M

IDC 10 07:40:22.1:2.8, 53.73N, 86.84E, h0km, mbmtpp.8/2, ML2.5/2, Error ellipse: s-maj=26.5km s-min=14.7km az=65.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for I46RU, ZALV, KURBB, MKAR, etc.

NEIC 10 07:49:34.7:1.2, 9.0N, 0.1:57.65E, 0.05, h10km, 1km, mb4.5/20, Error ellipse: s-maj=19.0km s-min=6.9km az=162.0

IDC 10 07:49:37.0:0.8, 9.56N, 57.96E, h0km, mb4.0/19, mbmp4.0/19, MS3.3/26, Error ellipse: s-maj=25.2km s-min=17.2km az=32.0

ISC 10 07:49:37.0:0.8, 9.4N, 0.1:57.9E, 0.1, h10km, m65, c1555/48, mb4.2/28, MS3.3/26, Carlsberg Ridge

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for UOOS, KAJMI, RAYN, PALK, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for BVAR, MLR, LBRT, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for ARTI, BURAR, BUR0R, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for KIRV, VRAC, TORC, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for SONM, FINES, ECH, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for EKA, KSAR, JNU, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for HOPE, PDAR, NVAR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for SMDR, IDE, DR12, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for AGPR, AGPR, AGPR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for AKTO, AKTO, MAZK, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Contains station data for BELG, KURBB, BVAR, etc.





Table with columns: SKT, Skwentna, 21.94, 53, Iamb, Iamb, 09 05 38.8, etc. Lists various stations and their data.

Table with columns: ILAR, comp=Z,389nm,21.4s, etc. Lists various stations and their data.

Table with columns: CTGM, Chitina Glacier, 26.88, 55, Iamb, Iamb, 09 06 49.4, etc. Lists various stations and their data.

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## 2019 JUN

10d 9h

Q32M	Nakina River	31.77	57	P	P	09 06 54.5	-0.9	LYN	comp=Z,10.0nm,0.8s	LR	LR	ULM	comp=Z,7.2nm,0.8s	IAMB	IAMB	09 10 06.8							
R33M	Jennings River	32.27	56	IAMB	IAMB	09 07 10.3		HOOD	Mount Hood	43.97	72	IAMB	IAMB	09 08 49.7	ULM	Lac du Bonnet	54.06	52	P	P	09 09 55.5	+0.2	
R33M	Jennings River	32.27	56	P	P	09 06 58.6	-1.1	H04A	Detroit Lake	44.06	73	IAMB	IAMB	09 08 41.0	V12A	Nelson	54.21	77	IAMB	IAMB	09 10 36.4		
U33K	Whale Pass	32.28	63	P	P	09 06 58.7	-0.9	NEW	Newport	44.67	66	IAMB	IAMB	09 08 57.4	LCMT	Little Creek M	54.21	75	IAMB	IAMB	09 09 59.0		
A36M	Sachs Harbour	32.40	32	IAMB	IAMB	09 07 12.2		NEW	Newport	44.67	66	P	P	09 08 44.3	+0.5	RSSD	Black Hills	54.27	62	IAMB	IAMB	09 09 58.0	+0.8
A36M	Sachs Harbour	32.40	32	P	P	09 07 00.1	-0.4	GUMO	Guam	44.76	214	LR	LR	09 04 08.1	RSSD	Black Hills	54.27	62	P	P	09 09 58.0	+0.8	
CRAG	Craig	32.52	64	P	P	09 07 01.6	-0.2	BLKN	Baker Lake	45.07	98	P	P	09 08 46.2	-0.4	RSSD	Black Hills	54.27	62	P	P	09 09 58.0	+0.8
WRAK	Wrangell Island	32.58	62	P	P	09 07 02.1	-0.1	PINE	Pine Mountain	45.32	73	IAMB	IAMB	09 09 13.6	KNB	Kanab	54.45	74	IAMB	IAMB	09 10 00.9		
KRSR	Korea Array	32.60	256	P	P	09 07 03.6	+1.1	J05D	Fort Rock, OR	45.47	74	IAMB	IAMB	09 08 51.9	O20A	White River Cr	54.80	69	IAMB	IAMB	09 10 24.6		
KSAR	Wonju Array Be	32.63	256	P	P	09 07 02.7	-0.1	YBH	Yreka Blue Hor	45.63	77	P	P	09 08 53.0	+1.5	AGMM	Agassiz Station	55.43	54	IAMB	IAMB	09 10 16.7	
KSAR	Wonju Array Be	32.63	256	IAMB	IAMB	09 07 02.7	-0.1	YBH	Yreka Blue Hor	45.63	77	P	P	09 08 53.0	+1.5	EPLO	Experimental L	55.46	51	IAMB	IAMB	09 10 24.1	
S34M	Telegraph Cree	32.67	59	P	P	09 07 03.1	+0.1	XAN	X'ian	46.03	269	P	P	09 08 55.2	+0.6	PV21	Cone Mtn., Par	55.51	70	IAMB	IAMB	09 10 23.5	
S34M	Telegraph Cree	32.67	59	P	P	09 07 03.1	+0.1	XAN	X'ian	46.03	269	P	P	09 08 55.2	+0.6	CBX	Cerro Bola	55.61	81	P	P	09 10 08.2	+1.2
TGTM	Hyland Airport	32.93	52	P	P	09 07 05.2	-0.1	ZALV	Zalesovo Bean	46.51	306	P	P	09 08 56.6	-1.5	CBX	Cerro Bola	55.61	81	P	P	09 10 08.2	+1.2
C36M	Paulatuk	33.02	37	P	P	09 07 05.7	-0.3	ZALV	Zalesovo Bean	46.51	306	P	P	09 08 56.6	-1.5	PV22	Blue Mesa, Par	55.63	70	IAMB	IAMB	09 10 28.1	
DLBC	Dease Lake	33.04	58	IAMB	IAMB	09 07 17.2		ZALV	Zalesovo Bean	46.51	306	P	P	09 08 56.6	-1.5	PV04	Paradox Valley	55.66	70	IAMB	IAMB	09 10 09.6	
DLBC	Dease Lake	33.04	58	LR	LR	09 21 55.5		ZALV	Zalesovo Bean	46.51	306	P	P	09 08 56.6	-1.5	PV16	Nyswonger Mesa	55.72	71	IAMB	IAMB	09 10 44.1	
DLBC	Dease Lake	33.04	58	P	P	09 07 05.6	-0.7	SPITS	Spitsbergen Ar	46.79	353	LR	LR	09 29 11.2	PZH	Panzhihua	55.75	269	P	P	09 10 10.3	+2.3	
V35K	Ketchikan	33.37	63	P	P	09 07 09.4	+0.2	MSO	Missoula	47.26	66	IAMB	IAMB	09 09 18.2	PZH	Panzhihua	55.75	269	P	P	09 10 10.3	+2.3	
T35M	Bob Quinn	33.45	60	IAMB	IAMB	09 07 21.0		WVOR	Wild Horse Val	47.48	73	IAMB	IAMB	09 09 28.9	PZH	Panzhihua	55.75	269	P	P	09 10 10.3	+2.3	
T35M	Bob Quinn	33.45	60	P	P	09 07 10.3	+0.5	WVOR	Wild Horse Val	47.48	73	P	P	09 09 28.9	PV07	Paradox Valley	55.78	70	IAMB	IAMB	09 10 22.3		
U35K	Hyder	33.97	62	P	P	09 07 15.0	+0.7	WVOR	Wild Horse Val	47.48	73	P	P	09 09 28.9	PV03	Paradox Valley	55.80	71	IAMB	IAMB	09 10 10.3		
JNU	Nakatsue	34.12	247	LR	LR	09 20 08.9		LZH	Lanzhou	47.58	275	eP	eP	09 09 07.5	+0.6	PV01	Paradox Valley	56.03	70	IAMB	IAMB	09 10 21.7	
H112Z	WAKE ISLAND Hy	34.48	183	T	T	09 43 44.6		LZH	Lanzhou	47.58	275	eP	eP	09 09 07.5	+0.6	ARTI	Arti	56.09	321	P	P	09 10 08.6	-1.3
H112Z	WAKE ISLAND Hy	34.48	183	T	T	09 43 45.5		LZH	Lanzhou	47.58	275	eP	eP	09 09 07.5	+0.6	ARTI	Arti	56.09	321	P	P	09 10 08.6	-1.3
H111N	WAKE ISLAND Hy	34.49	183	T	T	09 43 45.5		LZH	Lanzhou	47.58	275	eP	eP	09 09 07.5	+0.6	ARTI	Arti	56.09	321	P	P	09 10 08.6	-1.3
H111N	WAKE ISLAND Hy	34.49	183	T	T	09 43 45.9		LZH	Lanzhou	47.58	275	eP	eP	09 09 07.5	+0.6	ARTI	Arti	56.09	321	P	P	09 10 08.6	-1.3
WRGLV	Wrigley	34.59	48	P	P	09 07 20.0	+0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
LIRD	Liard River Hi	34.62	55	P	P	09 07 20.4	+0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
BEAVL	Fort Liard	34.84	53	P	P	09 07 22.2	+0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
TOAD	Toad River Com	35.24	55	P	P	09 07 24.9	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	P	P	09 07 21.2	-4.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	S	S	09 12 48.4	-9.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	S	S	09 12 48.4	-9.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	S	S	09 12 48.4	-9.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	S	S	09 12 48.4	-9.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
DL2	Dalian	35.25	264	S	S	09 12 48.4	-9.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
KOTAN	Kotanelee Air	35.33	53	P	P	09 07 25.8	-0.3	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
H11S1	WAKE ISLAND Hy	35.70	184	T	T	09 45 13.4		GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
H11S3	WAKE ISLAND Hy	35.71	184	T	T	09 45 25.1		GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
H11S2	WAKE ISLAND Hy	35.72	184	T	T	09 45 18.1		GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
BBB	Bella Bella	36.62	67	LR	LR	09 20 46.9		GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
ULNB	Ulanbatar	38.33	287	P	P	09 07 51.5	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
ULNB	Ulanbatar	38.33	287	P	P	09 07 51.5	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
ULNB	Ulanbatar	38.33	287	P	P	09 07 51.5	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
ULNB	Ulanbatar	38.33	287	P	P	09 07 51.5	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW3	Yellowknife Wh	38.61	46	IAMB	IAMB	09 08 03.2		GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW	Yellowknife Wh	38.64	46	P	P	09 07 54.3	+0.1	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW	Yellowknife Wh	38.64	46	P	P	09 07 54.4	+0.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW	Yellowknife Wh	38.64	46	P	P	09 07 54.4	+0.2	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW	Yellowknife Wh	38.64	46	P	P	09 07 54.3	+0.1	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
YKAW	Yellowknife Wh	38.64	46	P	P	09 07 54.3	+0.1	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.8	-0.3	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5	+0.1	ARTI	Arti	56.09	321	P	P	09 10 09.9	0.0
S0NM	Songino Array	38.71	287	P	P	09 07 54.7	-0.4	GTA	Gaotai	47.66	282	eP	eP	09 09 07.5									

Code	Station Name	$\Delta^\circ$	AZ $^\circ$	Op	Phase ID	Time	Res		
Code	Station Name	$\Delta^\circ$	AZ $^\circ$	Op	Phase ID	h	m	s	ISC
TXAR	Lajitas Array	65.27	74	P	P	09 11 14.0	+1.1		
TXAR	Lajitas Array	65.27	74	P	P	09 11 13.9	+1.0		
comp-Z, 4.4nm, 0.7s, baz=33, slow=4.1, SNR=29									
SAND	Sanderson	65.67	72	I	Amb	09 11 28.4			
comp-Z, 6.0nm, 0.9s									
PMG	Port Moresby	66.03	204	LR	LR	09 35 14.1			
comp-Z, 1.15nm, 20.1s, baz=53, slow=32									
BRDY	Brady	66.38	69	I	Amb	09 11 31.0			
comp-Z, 7.7nm, 1.0s									
NIL	Nilore	66.58	295	P	P	09 11 20.3	-0.9		
NIL	Nilore	66.58	295	P	P	09 11 20.3	-0.9		
comp-Z, 1.1nm, 0.9s									
NACGM	Naroch	66.86	337	eP	P	09 11 25.3	+2.7		
comp-N, 18nm, 0.8s									
DRIO	Del Rio	66.91	72	I	Amb	09 11 34.8			
comp-Z, 1.2nm, 1.1s									
MNK	Minsk	66.98	337	I	LRM	09 43 44.2			
comp-Z, 1.36nm, 16.7s									
MNK	Minsk	66.98	337	I	P	09 11 18.6	-4.8		
09 13 45.5									
MNK	Minsk	66.98	337	I	PPP	09 12 58.9	+1.5		
MNK	Minsk	66.98	337	I	S	09 20 15.6	+0.9		
MNK	Minsk	66.98	337	I	SS	09 20 15.6	+0.9		
MNK	Minsk	66.98	337	I	SSS	09 24 35.0	+2.7		
comp-Z, 16nm, 0.7s									
MNK	Minsk	66.98	337	I	PMAX				
comp-E, 13nm, 0.6s									
MNK	Minsk	66.98	337	I	PMAX				
comp-N, 53nm, 0.8s									
MNK	Minsk	66.98	337	I	MLR	09 43 29.6			
comp-Z, 16nm, 0.7s, baz=23									
MNK	Minsk	66.98	337	I	P	09 11 18.6	-4.8		
MNK	Minsk	66.98	337	I	P	09 11 18.6	-4.8		
comp-N, 53nm, 0.8s									
MNK	Minsk	66.98	337	I	P	09 11 18.6	-4.8		
comp-Z, 16nm, 0.7s, baz=23									
MNK	Minsk	66.98	337	I	PPP	09 13 45.6	-4.8		
MNK	Minsk	66.98	337	I	PPP	09 15 23.2	+0.9		
MNK	Minsk	66.98	337	I	SS	09 24 35.1	+2.8		
MNK	Minsk	66.98	337	I	SSS	09 27 42.8			
MNK	Minsk	66.98	337	I	LR	09 41 08.6			
MNK	Minsk	66.98	337	I	LRM	09 43 29.6			
comp-N, 149nm, 16.0s									
MNK	Minsk	66.98	337	I	LRM	09 43 35.5			
comp-E, 110nm, 19.3s									
WLAR	White Oak Lake	67.69	63	P	P	09 11 37.0	+8.8		
T47A	Sharon Grove	68.16	57	I	Amb	09 11 32.1	+1.0		
comp-Z, 1.3nm, 1.2s									
G62A	West of Eustis	68.77	41	P	P	09 11 40.9	+6.1		
ACCN	Adirondack Com	69.06	44	P	P	09 11 43.3	+6.7		
ACCN	Adirondack Com	69.06	44	I	Amb	09 11 43.7			
comp-Z, 7.8nm, 0.8s									
HKT	Hockley	69.14	68	I	P	09 11 32.9	-4.3		
comp-Z, 7.0nm, 1.1s									
T50A	Nancy	69.24	55	P	P	09 11 43.9	+6.0		
CLTN	Cedars of Leba	69.25	57	I	Amb	09 11 49.5			
comp-Z, 12nm, 1.1s									
M57A	Sunshine Farm	69.29	47	P	P	09 11 44.1	+6.0		
AKASG	Malin Array Be	70.14	334	P	P	09 11 42.0	-1.1		
comp-Z, 2.8nm, 0.8s, baz=127, slow=6.2, SNR=13									
AKASG	Malin Array Be	70.14	334	I	P	09 11 42.9	-0.2		
AKASG	Malin Array Si	70.14	334	eP	PMAX				
AKB	Malin Array Si	70.14	334	eP	P	09 11 41.5	-1.6		
AKB	Malin Array Si	70.14	334	eP	PMAX				
comp-Z, 1.1nm, 1.1s									
EKALA	Eskaledmair Ar	70.61	355	P	P	09 11 44.7	-1.2		
comp-Z, 2.5nm, 0.8s, baz=352, slow=5.0, SNR=8.3									
TKL	Tuckaleechec C	70.84	55	P	P	09 11 47.4	-0.4		
comp-Z, 3.8nm, 1.0s, baz=210, slow=2.1, SNR=2.7									
KIV	Kislovodsk	72.01	327	eP	PMAX				
KIV	Kislovodsk	72.01	327	eP	PMAX				
comp-Z, 7.0nm, 1.0s									
KIV	Kislovodsk	72.01	327	eP	MLR	09 11 53.4	-1.3		
KIV	Kislovodsk	72.01	327	eP	MLR				
comp-Z, 7.9nm, 18.0s									
KBZ	Khabz	72.13	322	P	P	09 11 54.7	-0.6		
KBZ	Khabz	72.13	322	P	LR	09 47 45.7			
comp-Z, 1.43nm, 18.3s, baz=33, slow=33									
CLL	Colim	72.93	345	I	P	09 11 59.5	-0.4		
comp-Z, 2.0nm, 1.9s									
CLL	Colim	72.93	345	I	eS	09 21 24.0	-0.6		
CLL	Colim	72.93	345	I	ePS	09 22 00.0	+2.9		
CLL	Colim	72.93	345	I	eSS	09 29 18.0	+0.8		
CLL	Colim	72.93	345	I	eSSS	09 29 18.0	+0.8		
STHS	Stebnicka Huta	73.21	339	eP	P	09 12 06.4	+4.7		
SOC	Sochka	73.38	324	eP	P	09 11 59.7	-3.0		
SOC	Sochka	73.38	324	eP	e	09 14 42.6			
SOC	Sochka	73.38	324	eP	ePPP	09 16 28.5			
SOC	Sochka	73.38	324	eP	MLR	09 21 29.5	-0.4		
comp-Z, 2.06nm, 17.0s									
MORC	Mirovsky Berou	73.62	341	eP	P	09 12 04.5	+0.4		
LANS	Liptovska Anna	73.84	340	eP	P	09 12 07.8	+2.4		
LANS	Liptovska Anna	73.84	340	eP	P	09 12 04.0	+2.4		
BURAR	Bucovina Array	74.00	335	P	P	09 12 06.6	+0.1		
MTN	Manton Dam	74.14	218	I	Amb	09 12 15.8	+8.4		
MTN	Manton Dam	74.14	218	I	Amb	09 12 19.0			
comp-Z, 1.2nm, 0.9s									
VRAC	Vranov	74.25	342	P	P	09 12 07.7	-0.1		
comp-Z, 2.3nm, 0.5s, baz=16, slow=6.0, SNR=4.4									
VRAC	Vranov	74.25	342	eP	P	09 12 08.6	+0.9		
JAVC	Velka Javorina	74.47	341	eP	P	09 12 10.5	+1.4		
KBCV	Karlovac	74.52	342	eP	P	09 12 10.0	+0.7		
GNI	Garni	74.53	319	LR	LR	09 49 30.3			
comp-Z, 2.22nm, 18.6s, baz=30, slow=40									
GERES	GERESS Array B	75.20	343	P	P	09 12 13.1	-0.3		
comp-Z, 1.1nm, 0.7s, baz=56, slow=24, SNR=4.6									
CONA	Conrad Observa	75.71	342	eP	P	09 12 17.3	+1.0		
comp-Z, 5.8nm, 1.3s									
RONA	Rosalia, Austr	75.84	341	eP	P	09 12 18.2	+1.2		
comp-Z, 2.1nm, 0.8s									
TAOE	Nuku Hiva Isla	75.97	128	eLR	LR	09 35 37.8			
comp-Z, 2.11nm, 28.2s									
DZM	Mont Dzumac	76.02	182	eLR	LR	09 35 45.5			
comp-Z, 2.08nm, 24.4s									
MOA	Molin	76.07	343	eP	P	09 12 18.9	+0.6		
comp-Z, 7.0nm, 1.5s									
PSI	Prapat	76.16	255	LR	LR	09 49 02.4			
comp-Z, 2.24nm, 18.1s, baz=53, slow=38									
BIOA	Bad Ischl, Aus	76.33	343	eP	P	09 12 20.0	+0.3		
comp-Z, 2.7nm, 0.5s									
ARSA	Arzberg	76.42	342	eP	P	09 12 21.0	+0.7		
comp-Z, 2.5nm, 0.8s									
LESA	Schwarzleota	76.75	344	eP	P	09 12 21.7	-0.6		
comp-Z, 2.0nm, 0.3s									
KBA	Koelbrenspres	76.97	343	eP	P	09 12 24.4	+0.8		
comp-Z, 1.2nm, 1.0s									
WATA	Walderalm	77.01	344	eP	P	09 12 23.1	-0.7		
comp-Z, 4.7nm, 1.3s									
SOKA	Soboth	77.06	342	I	P	09 12 24.8	+0.8		
comp-Z, 1.1nm, 1.3s									
WTTA	Wattenberg	77.07	344	eP	P	09 12 24.9	+0.7		
comp-Z, 5.5nm, 1.0s									
MOTA	Moosalm	77.08	345	eP	P	09 12 22.6	-1.5		
comp-Z, 5.8nm, 1.1s									
SQTA	Sankt Quirin	77.18	345	eP	P	09 12 25.5	+0.8		
comp-Z, 3.8nm, 0.6s									
OBKA	Obir	77.31	342	eP	P	09 12 26.3	+0.8		
comp-Z, 3.4nm, 0.9s									
DAVA	Damuels	77.32	346	eP	P	09 12 25.5	+0.8		
comp-Z, 2.8nm, 0.9s									
MYKA	Terra Mystica	77.36	343	eP	P	09 12 27.2	+1.6		
comp-Z, 3.5nm, 0.8s									
ABTA	Abfaltersbach	77.43	344	eP	P	09 12 26.3	+0.2		
comp-Z, 3.5nm, 0.9s									
FETA	Feichten	77.45	345	eP	P	09 12 27.0	+0.7		
comp-Z, 4.5nm, 1.1s									
PRED	Cave del Pied	77.55	343	I	Amb	09 12 44.9			
comp-Z, 6.5nm, 1.0s									

ILGA	lغاز	77.63	327	P	P	09 12 28.1	+0.6		
BRTR	Keskin Array B	78.86	326	P	P	09 12 33.9	-0.3		
BRTR	Keskin Array B	78.86	326	P	P	09 12 33.0	-1.1		
comp-Z, 1.1nm, 0.7s, baz=50, slow=1.9, SNR=8.4									
BRTR	Keskin Array B	78.86	326	I <th>P <th>09 12 34.2 <th>0.0</th></th></th>	P <th>09 12 34.2 <th>0.0</th></th>	09 12 34.2 <th>0.0</th>	0.0		
comp-Z, 4.0nm, 1.2s									
WRA	Warrumungarra Arr	79.64	213 <td>eLR</td> <td>PMAX</td> <td>09 12 39.3</td> <td>+1.0</td>	eLR	PMAX	09 12 39.3	+1.0		
comp-Z, 3.2nm, 0.9s, baz=18, slow=5.5, SNR=8.6									
WRA	Warrumungarra Arr	79.64	213 <td>eLR</td> <td>LR</td> <td>09 45 04.6</td> <td></td>	eLR	LR	09 45 04.6			
comp-Z, 5.6nm, 21.9s, baz=9.5, slow=34									
PP2T	Pyramida	79.82	140 <td>eLR</td> <td>LR</td> <td>09 37 23.6</td> <td></td>	eLR	LR	09 37 23.6			
comp-Z, 2.245nm, 25.8s									
PP2T	Pyramida	79.82	140 <td>eLR</td> <td>LR</td> <td>09 37 31.8</td> <td></td>	eLR	LR	09 37 31.8			
comp-Z, 2.258nm, 22.0s									
FDMO	Fiordimonte	80.94	342 <td>I</td> <td>Amb</td> <td>09 13 05.5</td> <td></td>	I	Amb	09 13 05.5			
comp-Z, 9.7nm, 0.9s									
PALK	Pallekele	83.15	273 <td>LR</td> <td>LR</td> <td>09 54 13.1</td> <td></td>	LR	LR	09 54 13.1			
comp-Z, 4.5nm, 20.4s, baz=16, slow=39									
ASAR	Alice Springs	83.26	212 <td>P</td> <td>P</td> <td>09 12 58.9</td> <td>+1.5</td>	P	P	09 12 58.9	+1.5		
ASAR	Alice Springs	83.26	212 <td>P</td> <td>P</td> <td>09 12 59.3</td> <td>+1.9</td>	P	P	09 12 59.3	+1.9		
comp-Z, 2.0nm, 0.7s, baz=16, slow=5.3, SNR=19.9									
ASAR	Alice Springs	83.26	212 <td>P</td> <td>P</td> <td>09 12 58.9</td> <td>+1.5</td>	P	P	09 12 58.9	+1.5		
MMAI	Mount Meron Arr	84.32	322 <td>P</td> <td>P</td> <td>09 13 04.0</td> <td>+0.9</td>	P	P	09 13 04.0	+0.9		
comp-Z, 1.0nm, 0.2s, baz=10, slow=6.6, SNR=4.6									
ASF	Jabal al Asfar	84.53 <th>321 <td>LR</td> <td>LR</td> <td>09 56 22.6</td> <td></td></th>	321 <td>LR</td> <td>LR</td> <td>09 56 22.6</td> <td></td>	LR	LR	09 56 22.6			
comp-Z, 9.9nm, 18.7s, baz=199, slow=40									
TBI	Tubus	85.14 <th>142 <td>eLR</td> <td>LR</td> <td>09 39 58.0</td> <td></td></th>	142 <td>eLR</td> <td>LR</td> <td>09 39 58.0</td> <td></td>	eLR	LR	09 39 58.0			
comp-Z, 1.1um, 26.8s									
ESDC	Sonsecqa Array	86.27	355 <td>P</td> <td>P</td> <td>09 13 12.1</td> <td>-0.6</td>	P	P	09 13 12.1	-0.6		
ESDC	Sonsecqa Array	86.27	355 <td>P</td> <td>P</td> <td>09 13 11.3</td> <td>-1.4</td>	P	P	09 13 11.3	-1.4		
comp-Z, 4.6nm, 1.3s, baz=1.4, slow=4.3, SNR=7.6									
STKA	Stephens Creek	88.97	203 <td>P</td> <td>P</td> <td>09 13 26.4</td> <td>+1.2</td>	P	P	09 13 26.4	+1.2		
comp-Z, 2.7nm, 0.8s, baz=15, slow=3.8, SNR=5.0									
BOSA	Boshof	143.31 <th>299 <td>PKP</td> <td>PKPdf</td> <td>09 20 06.1</td> <td>+1.0</td></th>	299 <td>PKP</td> <td>PKPdf</td> <td>09 20 06.1</td> <td>+1.0</td>	PKP	PKPdf	09 20 06.1	+1.0		
comp-Z, 3.5nm, 0.8s, baz=27, slow=2.7, SNR=5.4									
QSPA	South Pole	143.98 <th>160 <td>PKP</td> <td>PKPbc</td> <td>09 20 02.8</td> <td>-0.2</td></th>	160 <td>PKP</td> <td>PKPbc</td> <td>09 20 02.8</td> <td>-0.2</td>	PKP	PKPbc	09 20 02.8	-0.2		
comp-Z, 2.6nm, 0.7s, baz=68, slow=1.1, SNR=26.6									
MAW	Mawson	144.11 <th>219 <td>PKP</td> <td>PKPdf</td> <td>09 20 04.7</td> <td>-0.4</td></th>	219 <td>PKP</td> <td>PKPdf</td> <td>09 20 04.7</td> <td>-0.4</td>	PKP	PKPdf	09 20 04.7	-0.4		
comp-Z, 3.4nm, 0.8s, baz=14, slow=6.8, SNR=3.7									
SNA4	Sanaz	162.14 <th>188 <td>PKPab</td> <td>PKPab</td> <td>09 21 20.2</td> <td>+2.4</td></th>	188 <td>PKPab</td> <td>PKPab</td> <td>09 21 20.2</td> <td>+2.4</td>	PKPab	PKPab	09 21 20.2	+2.4		
comp-Z, 2.1nm, 0.8s, baz=292, slow=9.4, SNR=5.5									
SNET 10 09:03:16.8:0.7, 13.39N:89.52W, h67km, 3km, ML3.1									
CGG 10 09:03:16.6:0.4, 13.14N:9.0W:1.4, h49km, 4km, M3.2/22,									
MLV3.2/22, Error ellipse: s-maj=9.5km s-min=-4.2km									
az=20.4, confirmed									
ISC 10 09:03:16.8:2.0, 13.35N:0.08:89.54W:0.06, h68km, gkm,									
n83, c0f46/89, 2C-11D, El Salvador									
Code	Station Name	$\Delta^\circ$	AZ $^\circ$	Op	Phase ID	Time	Res		
Code	Station Name	$\Delta^\circ$	AZ $^\circ$	Op	Phase ID	h	m	s	ISC
LALI	Alcalda de L	0.26	57j	eP	Pn	09 03 27.1	-0.3		
LALI	Alcalda de L	0.26	57j	eS	Pn	09 03 34.5	-0.7		
LALI	Alcalda de L	0.26	57j	I	P	09 03 27.2	-0.3		
LALI	Alcalda de L	0.26	57j	I	P	09 03 27.1	-0.3		
LALI	Alcalda de L	0.26	57j	I	P	09 03 27.1	-0.3		
JAYA	Jayaque - finec	0.32	17j	I	P	09 03 27.8	-0.3		
JAYA	Jayaque - finec	0.32	17j	I	eS	09 03 36.3	-0.1		
JAYA	Jayaque - finec	0.32	17j	I	S	09 03 27.8	-0.3		
JAYA	Jayaque - finec	0.32	17j	I	P	09 03 27.8	-0.3		
JAYA	Jayaque - finec	0.32	17j	I	P	09 03 28.6	-0.2		
ITCA	Escuela Especi	0.41	39j	P	Pn	09 03 27.8	-0.3		
ITCA	Escuela Especi	0.41	39j	P	Pn	09 03 27.8	-0.3		
PMON	Piamonte	0.42	32j	P	Pn	09 03 28.8	-0.1		



FIAO	baz=30,slow=12	Sn	Sn	09 08 23.1	-0.2
FIAO	baz=35,slow=22	Pn	Pn	09 07 04.2	+1.4
FIAO	FINES Array S	7.03 212	Pn	09 08 23.1	-0.2
FIAO	baz=30,slow=12	Sn	Sn	09 07 04.2	+1.4
FINES	baz=35,slow=22	Pn	Pn	09 07 05.0	+2.2
FINES	comp=Z,0.6nm,0.3s,baz=28,slow=14,SNR=7.3	Pn	Pn	09 08 22.7	-0.6
FINES	comp=Z,2.8nm,0.3s,baz=34,slow=22,SNR=6.6	Lg	Lg	09 08 55.9	
FINES	comp=Z,9.0nm,0.3s,baz=31,slow=27,SNR=18	Lg	Lg	09 08 55.9	
FINES	comp=Z,2.5nm,0.4s	Lg	Lg	09 08 55.9	
STEI	Steigen	7.07 281	Pn	09 07 03.2	-0.2
STEI	Steigen	7.07 281	Pn	09 08 21.9	-2.5
STEI	Steigen	7.07 281	eP	09 07 03.7	+0.3
STEI	Steigen	7.07 281	eP	09 08 21.9	+2.5
FAUS	Fauske	7.13 277	Pn	09 07 04.7	+0.5
FAUS	Fauske	7.13 277	Sn	09 08 23.1	-2.8
FAUS	Fauske	7.13 277	Sn	09 08 23.0	-2.9
FAUS	Fauske	7.13 277	Pn	09 07 04.7	+0.5
FAUS	Fauske	7.13 277	Pn	09 08 23.1	-2.8
KLMR	Klimovskoe	7.20 157	eP	09 07 03.7	+1.5
KLMR	Klimovskoe	7.20 157	eS	09 08 24.0	-3.5
LOF	Lofoten	7.69 283	Pn	09 07 11.5	-0.4
LOF	Lofoten	7.69 283	Sn	09 08 34.0	-5.5
LOF	Lofoten	7.69 283	eP	09 07 11.4	-0.4
LOF	Lofoten	7.69 283	Sn	09 08 34.0	-5.5
MOR8	Moi Rana	7.77 268	Pn	09 07 10.4	-2.6
MOR8	Moi Rana	7.77 268	Sn	09 08 35.1	-6.5
MOR8	Moi Rana	7.77 268	eP	09 07 10.6	-2.5
MOR8	Moi Rana	7.77 268	Sn	09 08 35.1	-6.5
VAGH	Vaagaholmen	8.05 273	eP	09 07 16.4	-0.5
KONS	Konvik	8.18 272	Pn	09 07 18.5	+0.1
KONS	Konvik	8.18 272	Sn	09 08 42.7	-1.7
KONS	Konvik	8.18 272	eP	09 07 18.8	+0.2
BJOI	BJornoya	8.42 332	eP	09 07 18.4	-3.5
BJOI	BJornoya	8.42 332	eS	09 08 46.3	-1.1
HOPEN	Hopen	9.35 347	eP	09 07 33.1	-1.5
HOPEN	Hopen	9.35 347	eS	09 07 33.1	-1.5
HSPB	Hornsund (broa)	10.89 338	eP	09 07 53.1	-1.5
HSPB	Hornsund (broa)	10.89 338	eS	09 09 47.6	-1.0
KIRV	Kirov	11.14 135	Pn	09 08 01.9	-1.0
KIRV	comp=Z,2.1nm,0.3s,baz=97,slow=12,SNR=4.0	Pn	Pn	09 08 01.9	-1.0
KIRV	comp=Z,9.3nm,0.6s	Pn	Pn	09 08 01.9	-1.0
HFS	Hagfors	11.57 239	Pn	09 08 04.6	-0.4
HFS	Hagfors	11.57 239	Pn	09 08 05.2	+0.3
HFS	comp=Z,0.5nm,0.3s,baz=42,slow=14,SNR=13	Sn	Sn	09 10 11.2	-3.5
HFS	comp=Z,2.1nm,0.3s,baz=56,slow=27,SNR=8.9	Lg	Lg	09 11 17.5	
HFS	comp=Z,3.3nm,0.3s,baz=56,slow=27,SNR=7.3	Lg	Lg	09 11 17.5	
SPA0	Spitsbergen Ar	11.72 342	Pn	09 08 05.1	-2.0
SPA0	Spitsbergen Ar	11.72 342	eP	09 08 04.5	-2.6
SPA0	Spitsbergen Ar	11.72 342	eS	09 10 07.1	-1.1
SPITS	Spitsbergen Ar	11.72 342	Pn	09 08 05.1	-2.0
SPITS	Spitsbergen Ar	11.72 342	Sn	09 10 12.3	-6.0
NB2	NORSAR Subarra	11.76 247	Pn	09 08 07.2	-0.5
NOA	NORSAR Array B	11.76 247	Pn	09 08 07.5	-0.2
NOA	comp=Z,0.1nm,0.3s,baz=41,slow=10,SNR=12	Sn	Sn	09 10 14.8	-4.7
NOA	comp=Z,0.1nm,0.3s,baz=44,slow=21,SNR=5.0	Sn	Sn	09 10 14.8	-4.7
NRO	NORESS Array S	11.86 245	Pn	09 08 08.4	-0.6
NRO	comp=Z,1.3nm,0.3s,baz=342,slow=6.0,SNR=4.3	Pn	Pn	09 08 08.4	-0.6
ARTI	Arti	15.93 123	Pn	09 09 01.0	-3.1
ARTI	comp=Z,0.5nm,0.3s,baz=229,slow=1.5,SNR=5.5	Lg	Lg	09 13 41.4	
BELG	Belogornyye	16.66 149	Pn	09 09 09.9	-3.4
BELG	comp=Z,0.3nm,0.3s,baz=3.6,slow=1.7,SNR=3.6	Pn	Pn	09 09 09.9	-3.4
AKASG	Malin Array Be	17.10 190	Pn	09 09 13.4	-5.5
AKASG	comp=Z,1.1nm,0.3s,baz=8.9,slow=12,SNR=14	Lg	Lg	09 14 23.6	
AKASG	comp=Z,0.5nm,0.3s,baz=355,slow=29,SNR=4.3	Lg	Lg	09 14 23.6	
AKASG	comp=Z,2.6nm,0.6s	Lg	Lg	09 14 23.6	
AKTO	Aktuybinsk	20.97 133	P	09 10 03.5	+0.4
AKTO	comp=Z,5.5nm,0.7s,baz=326,slow=9.8,SNR=12	P	P	09 10 03.5	+0.4
BVAR	Borovoye Array	22.75 112	P	09 10 22.4	+0.2
BVAR	comp=Z,4.6nm,0.5s,baz=320,slow=9.6,SNR=6.1	P	P	09 10 22.4	+0.2
BVAR	comp=Z,4.6nm,0.5s	P	P	09 10 22.4	+0.2
KBZ	Khabaz	24.40 164	P	09 10 40.7	+2.2
KBZ	comp=Z,0.9nm,0.3s,baz=326,slow=5.9,SNR=4.0	P	P	09 10 40.7	+2.2
KBZ	comp=Z,0.9nm,0.4s	P	P	09 10 40.7	+2.2
KURBB	Kurchatov Arra	27.66 105	P	09 11 09.9	+2.0
KURBB	comp=Z,1.2nm,0.7s,baz=949,slow=6.4,SNR=1.2	P	P	09 11 09.9	+2.0
KURBB	comp=Z,1.0nm,0.7s	P	P	09 11 09.9	+2.0
BRTR	Keskin Array B	32.23 106	P	09 11 13.4	+2.9
BRTR	comp=Z,0.5nm,0.6s,baz=353,slow=7.4,SNR=2.3	P	P	09 11 13.4	+2.9
BRTR	comp=Z,0.5nm,0.6s	P	P	09 11 13.4	+2.9
MKAR	Makanchi Array	32.23 106	P	09 11 51.0	+2.5
MKAR	comp=Z,0.5nm,0.5s,baz=326,slow=7.7,SNR=5.9	P	P	09 11 51.0	+2.5
MKAR	comp=Z,0.5nm,0.5s	P	P	09 11 51.0	+2.5
ILAR	Elislon Array	47.92 0	P	09 13 59.4	+1.3
ILAR	comp=Z,0.2nm,0.8s,baz=354,slow=8.8,SNR=4.1	P	P	09 13 59.4	+1.3
ILAR	comp=Z,0.2nm,0.8s	P	P	09 13 59.4	+1.3
YKA	Yellowknife Ar	48.22 341	P	09 14 02.1	+1.6
YKA	comp=Z,0.3nm,0.7s,baz=13,slow=8.4,SNR=3.6	P	P	09 14 02.1	+1.6
YKA	comp=Z,0.3nm,0.7s	P	P	09 14 02.1	+1.6

CEME		1.52	91	i	Sg	09 07 43.6	+2.4
PLE	Pljevlja	1.52	91	i	Pg	09 07 42.4	-0.6
PLE	Pljevlja	1.52	91	i	Sg	09 07 25.4	+1.4
RUDO	Rudo	1.52	80	i	Pn	09 07 23.1	-0.6
RUDO	Rudo	1.52	80	i	Pn	09 07 44.3	+0.4
RUDO	Rudo	1.52	80	eP	Pg	09 07 23.0	-0.5
RUDO	Rudo	1.52	80	eP	Pg	09 07 44.3	+0.4
BUM	Brajici-Budva	1.58	132	eP	Sg	09 07 23.9	-0.8
BUM	Brajici-Budva	1.58	132	eP	Sg	09 07 48.7	+3.0
BLLS	Lazi#2631	1.61	71	i	Pn	09 07 24.8	-0.4
BLLS	Lazi#2631	1.61	71	i	Pn	09 07 46.5	+0.1
BLLS	Lazi#2631	1.61	71	eS	Sb	09 07 24.8	-0.4
BLLS	Lazi#2631	1.61	71	eS	Sb	09 07 46.5	+0.1
A051A	Mrakovica	1.67	350	i	Pn	09 07 25.4	-0.9
A051A	Mrakovica	1.67	350	i	Pn	09 07 48.0	-0.6
KOME	Kolasin	1.70	107	i	Pn	09 07 26.6	-0.2
KOME	Kolasin	1.70	107	i	Pn	09 07 52.0	+2.5
PDG	Podgorica	1.71	122	eP	Pn	09 07 25.9	-1.0
PDG	Podgorica	1.71	122	eP	Pn	09 07 48.2	-0.5
PDG	Podgorica	1.71	122	i	Pn	09 07 26.8	-0.1
PDG	Podgorica	1.71	122	eP	Pn	09 07 48.2	-0.5
DUGI	Dugi Otok	1.75	292	i	Pn	09 07 27.8	+0.1
DUGI	Dugi Otok	1.75	292	i	Pn	09 07 52.7	+2.8
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 26.9	-0.6
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 51.5	+0.5
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 28.0	-0.7
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 50.8	-1.0
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 28.3	-0.4
DRME	Dracevica, Mon	1.82	130	eP	Sb	09 07 55.4	+2.2
SJES	Sjenica	1.95	92	eP	Sb	09 07 54.9	-0.9
SJES	Sjenica	1.95	92	eP	Sb	09 07 54.9	-0.9
SJES	Sjenica	1.95	92	eP	Sb	09 07 54.9	-0.9
SJES	Sjenica	1.95	92	eP	Sb	09 07 54.9	-0.9
SJES	Sjenica	1.95	92	eP	Sb	09 07 54.9	-0.9
IVA	Berane	1.96	104	eP	Pn	09 07 30.8	-0.4
IVA	Berane	1.96	104	eP	Pn	09 07 55.5	+1.7
TEKS	Tekeris	2.00	53	eP	Sb	09 07 30.9	-0.9
TEKS	Tekeris	2.00	53	eP	Sb	09 07 55.8	-1.2
TEKS	Tekeris	2.00	53	eP	Sb	09 07 30.2	-1.6
TEKS	Tekeris	2.00	53	eP	Sb	09 07 55.8	-1.2
TEKS	Tekeris	2.00	53	eP	Sb	09 07 30.2	-1.6
IVAS	Ivanjica	2.08	83	eP	Sb	09 07 36.0	-0.1
IVAS	Ivanjica	2.08	83	eP	Sb	09 07 56.2	-1.0
TRUS	Trudelj	2.41	68	eP	Pn	09 07 35.1	+0.1
GRUS	Gruska Gora	2.54	44	eP	Sb	09 07 36.9	+0.1
FRGS	Fruska Gora	2.54	44	eP	Sb	09 08 09.6	-2.8
FRGS	Fruska Gora	2.54	44	eP	Sb	09 08 09.0	+0.7
FRGS	Fruska Gora	2.54	44	eP	Sb	09 07 36.9	+0.1
FRGS	Fruska Gora	2.54	44	eP	Sb	09 08 08.8	-0.5
BOJS	Bojanci	2.59	326	i	Pn	09 07 39.3	+1.7
BOJS	Bojanci	2.59	326	i	Pn	09 08 10.5	+0.8
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 07 38.8	-2.4
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 08 09.0	+0.7
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 07 38.8	-2.4
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 08 09.0	+0.7
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 07 38.8	-2.4
GOCs	Kraljevo Serbi	2.61	84	eP	Pn	09 08 09.0	+0.7
SELS	Selova	2.79	92	eP	Pn	09 07 42.1	+1.8
CRES	Cresnevje Ost	2.79	332	eP	Sb	09 08 15.9	+1.4
MORH	Mrgy, Hungary	3.00	18	eP	Sb	09 07 44.5	+1.3
MORH	Mrgy, Hungary	3.00	18	eP	Sb	09 08 21.1	+1.4
SKDS	Skadanscina	3.21	314	eP	Sb	09 07 46.5	+0.4
SKDS	Skadanscina	3.21	314	eP	Sb	09 07 50.2	+2.2
SOKA	Soboth	3.68	335	i	Pn	09 07 53.9	+1.3
SOKA	3.6nm,0.2s,SNR=11	i	Pn	09 07 53.9	+1.3		
OBKA	Obir	3.70	329	eP	Pn	09 07 53.8	+0.9
OBKA	Obir	3.70	329	eP	Pn	09 08 37.2	+0.2
OBKA	Obir	3.70	329	eP	Pn	09 07 56.0	+3.0
ZAPS	Zavoj	3.89	90	eP	Pn	09 07 57.8	+2.3
ARSA	Arzberg	4.08	343	i	Pn	09 07 59.0	+0.9
MYKA	Terra Mystica	4.17	323	eP	Pn	09 07 59.3	-0.1
MYKA	0.9nm,0.3s	i	Pn	09 07 59.3	-0.1		
RONA	Rosalia, Austr	4.39	351	i	Pn	09 08 02.9	+0.5
KBA	Koelnreinsperr	4.65	324	i	Pn	09 08 08.8	+2.8
CONA	Conrad Observa	4.67	348	i	Pn	09 08 07.5	+1.2
CONA	0.7nm,0.3s	i	Pn	09 08 07.5	+1.2		
ABTA	Altaltersbach	4.79	317	i	Pn	09 08 08.7	+0.8
MOA	Molin	4.96	336	i	Pn	09 08 12.3	+2.1
MOA	4.8nm,0.4s,SNR=15	i	Pn	09 08 12.3	+2.1		
MODS	Modra-Piesok	5.01	360	eSN	Pn	09 09 08.5	-0.6
BIOA	Bad Ischl, Aus	5.04	331	i	Pn	09 08 13.9	+2.7
LESA	Schwarzleotol	5.21	323	i	Pn	09 08 15.1	+1.5
LESA	4.0nm,0.5s,SNR=6.3	i	Pn	09 08 15.1	+1.5		
VYHS	Vyhne	5.24	11	eP	Pn	09 08 18.4	+4.4
WTTA	Wattenberg	5.58	316	i	Pn	09 08 20.4	+1.5
WTTA	0.2nm,0.3s	i	Pn	09 08 20.4	+1.5		
WATA	Walderalim	5.66	317	i	Pn	09 08 21.6	+1.8
WATA	1.2nm,0.2s	i	Pn	09 08 21.6	+1.8		
SQTA	Sanct Quirin	5.77	314	eP	Pn	09 08 24.8	+3.4
MOTA	Moosalm						



PBMO	Poplar Bluff	23.74 356	I	Amb	09 17 42.0
DEOK	Depew	23.83 344	I	Amb	09 17 41.5
TZTN	Tazewell	23.90 10	I	Amb	09 17 51.3
U38A	Gravette	23.91 349	I	Amb	09 17 43.1
T47A	Sharon Grove	23.94 3	I	Amb	09 17 27.7
2404	Van Buren	24.04 355	I	Amb	09 17 50.8
U54A	Nelsons Funny	24.23 14	I	Amb	09 17 46.7
SMWD	Samnorwood	24.39 336	I	Amb	09 17 45.8
U56A	King	24.42 16	I	Amb	09 17 48.9
MSTX	Muleshoe	24.52 331	I	Amb	09 17 48.4
USIN	University of	24.89 2	I	Amb	09 17 53.3
SS1A	Beattyville	24.96 10	I	Amb	09 17 54.1
CCM	Cathedral Cave	25.07 355	P	P	09 17 35.1 +0.3
OK38	West end E0370	25.09 341	I	Amb	09 17 55.3
WCI	Wyandotte Cave	25.23 4	P	P	09 17 36.7 +0.4
WCI	Wyandotte Cave	25.23 4	I	Amb	09 18 14.8
TB7G	Tabatinga, AM	25.26 131	eP	P	09 17 34.5 -2.3
KAN14	Manchester OK	25.29 342	I	Amb	09 17 54.6
KAN09	Caldwell North	25.35 343	I	Amb	09 17 55.4
T57A	Hurt	25.35 18	I	Amb	09 17 57.2
KAN05	Bluff City Nor	25.40 343	I	Amb	09 17 55.9
KAN01	Argonia South	25.41 343	I	Amb	09 17 55.9
KAN08	Anthony E Sta	25.54 343	I	Amb	09 17 57.2
KAN12	Harper NE Stat	25.61 343	I	Amb	09 17 58.5
OLIL	Olney	25.65 1	I	Amb	09 17 59.4
Q44A	Meyer Farm, Va	25.81 359	I	Amb	09 18 04.7
T59A	Double 'B' Far	25.87 21	I	Amb	09 18 01.9
CZSB	Cruzeiro do Su	25.98 142	eP	P	09 17 42.0 -1.3
CZSB	Cruzeiro do Su	25.98 142	P	P	09 17 46.5 +3.2
SRIG	Santa Rosalia	26.27 306	I	Amb	09 18 23.5
Q51A	Peebles	26.36 9	I	Amb	09 18 13.1
Q52A	Bidwell	26.48 11	I	Amb	09 18 15.2
Y22D	IRIS PASSCAL I	26.76 325	P	P	09 17 51.0 +0.6
Q54A	Coxs Mills	26.80 14	I	Amb	09 18 09.1
P51A	Williamsport	26.85 10	I	Amb	09 18 33.0
R32A	Long Quarter,	26.86 342	I	Amb	09 18 09.6
ANMO	Albuquerque	27.16 327	P	P	09 17 56.6 +2.5
ANMO	Albuquerque	27.16 327	I	Amb	09 17 58.0
ANMO	Albuquerque	27.16 327	P	P	09 17 58.1
ANMO	Albuquerque	27.16 327	P	P	09 17 55.6 +1.6
NNA	Nana	27.44 154	LR	LR	09 28 32.1
O52A	Adamsville	27.68 11	I	Amb	09 18 17.5
T25A	Trinidad	27.88 332	I	Amb	09 18 23.7
O53A	New Philadelph	27.94 12	I	Amb	09 18 52.0
TUC	Tucson	27.95 317	P	P	09 18 03.8 +2.8
P57A	Homestead Farm	28.02 18	I	Amb	09 18 20.7
O54A	Avelle	28.05 14	I	Amb	09 18 24.9
N53A	Lisbon	28.55 12	I	Amb	09 18 25.3
KSC0	Kaye Shedlock	28.72 337	I	Amb	09 18 10.3
L40A	Anamosa	29.05 356	I	Amb	09 18 29.1
SSPA	Standing Stone	29.12 17	P	P	09 18 11.9 +0.7
JFWS	Jewell Farm	29.85 358	I	Amb	09 18 36.2
MVCO	Mesa Verde	29.95 327	I	Amb	09 18 37.9
H42A	Draeger Farm,	30.80 360	I	Amb	09 18 44.0
PV02	Paradox Valley	30.82 328	I	Amb	09 18 30.5
PV13	Radium Mtn., P	30.83 328	I	Amb	09 18 29.8
PV05	Paradox Valley	30.91 328	I	Amb	09 18 30.9
PV03	Paradox Valley	30.91 328	I	Amb	09 18 30.4
PV07	Paradox Valley	30.95 329	I	Amb	09 18 30.9
PV11	David Mesa, Pa	30.96 328	I	Amb	09 18 31.4
PV17	East Wry Mesa	30.99 328	I	Amb	09 18 31.6
PV16	Nyswonger Mesa	30.99 328	I	Amb	09 18 31.8
PV20	West Nyswonger	31.04 328	I	Amb	09 18 32.0
PV04	Paradox Valley	31.05 328	I	Amb	09 18 32.3
PV10	Paradox Valley	31.11 328	I	Amb	09 18 32.1
PV23	Carpenter Ridg	31.15 328	I	Amb	09 19 01.7
ECSD	EROS Data Cent	31.39 349	I	Amb	09 19 34.5
HMU	Henry Mountain	31.69 326	I	Amb	09 18 38.6
YUH	Yuba Desert	31.70 313	I	Amb	09 18 54.1
O20A	White River Ci	31.72 331	I	Amb	09 18 42.5
MACA	Manacapuru-AM	32.08 118	P	P	09 18 36.0 -1.5
MACA	Manacapuru-AM	32.08 118	I	Amb	09 18 38.0
G40A	Rib Lake	32.20 358	I	Amb	09 18 56.5
M65A	Bushby, Falmout	32.52 26	P	P	09 18 41.2 +0.1
PFO	Pinyon Flats O	32.59 314	P	P	09 18 43.6 +1.6
PFO	comp=Z,1.4nm,0.8s,baz=113,slow=4.7,SNR=5.8		ScP	ScP	09 21 27.6 +0.5
PFO	comp=Z,1.4nm,0.7s,baz=109,slow=3.0,SNR=4.0		ScP	ScP	09 25 05.8 +0.7
PFO	comp=Z,1.6nm,0.8s,baz=97,slow=2.8,SNR=3.5		LR	LR	09 32 47.5
SADO	Sadowa	32.70 13	I	Amb	09 19 01.2
SADO	Sadowa	32.70 13	P	P	09 18 41.2 -1.4
SADO	comp=Z,6.3nm,0.5s,baz=215,slow=9.5,SNR=15		LR	LR	09 32 07.0
MVU	Marysville	32.91 325	I	Amb	09 19 04.8
F33A	5 Mile Ranch,	33.28 350	I	Amb	09 19 05.5
BSUT	Blindstream Ca	33.61 329	I	Amb	09 18 54.2
MPU	Maple Canyon	33.67 327	I	Amb	09 18 55.3
RSSD	Black Hills	33.72 340	P	P	09 18 53.3 +1.5

RSSD	comp=Z,1.1nm,0.9s		I	Amb	09 18 54.6
RSSD	Black Hills	33.72 340	P	P	09 18 53.1 +1.3
RSSD	Goldstone, Bar	33.75 316	sP	sP	09 19 02.9 +0.6
GDCA	Pinedale Array	34.75 333	P	P	09 21 32.0 +1.8
PDAR	Pinedale Array	34.75 333	P	P	09 19 01.4 +0.6
PDAR	comp=Z,0.9nm,0.9s,baz=205,slow=2.8,SNR=5.0		ScP	ScP	09 25 12.3 -0.2
R11B	Troy Canyon, C	34.79 321	P	P	09 19 03.4 +2.3
HWUT	Hardware Ranch	34.81 329	I	Amb	09 19 31.6
BGU	Big Grassy Mou	35.07 327	I	Amb	09 19 22.9
AHID	Auburn Hatcher	35.46 331	I	Amb	09 19 10.0
LPAZ	La Paz	35.47 145	P	P	09 19 09.1 +1.5
LPAZ	La Paz	35.47 145	P	P	09 19 08.9 +1.2
LPAZ	La Paz	35.47 145	eP	eP	09 19 06.0 -1.6
LPAZ	La Paz	35.47 145	P	P	09 19 22.9 +0.6
LPAZ	La Paz	35.47 145	sP	sP	09 19 08.8 +1.2
HVU	Hansel Valley	35.55 328	I	Amb	09 19 27.0
ELK	Elko	35.61 325	P	P	09 19 14.5 +1.7
ELK	comp=Z,0.9nm,0.4s,baz=111,slow=4.8,SNR=6.8		ScP	ScP	09 25 18.8 +1.0
PB16	POC Station P	36.41 148	P	P	09 19 17.4 +1.9
H17A	Grant Village P	36.49 333	I	Amb	09 19 37.4
RLMT	Red Lodge	36.52 335	I	Amb	09 19 17.4
NVAR	Minna Array Bea	36.53 319	P	P	09 19 17.8 +1.7
NVAR	Minna Array Bea	36.53 319	P	P	09 19 17.5 +1.4
NVAR	comp=Z,2.0nm,0.7s,baz=137,slow=2.4,SNR=9.0		ScP	ScP	09 21 39.1 +0.7
NVAR	comp=Z,1.5nm,0.6s,baz=130,slow=4.5,SNR=8.9		LR	LR	09 36 26.2
LHV	Little Huntoon	36.55 319	I	Amb	09 19 54.9
YMP	Mirror Lake PI	36.58 334	I	Amb	09 19 56.2
YFT	Old Faithful	36.65 333	I	Amb	09 19 48.1
YNE	Yellowstone No	36.74 334	I	Amb	09 19 37.5
YHB	Horse Butte	37.04 333	I	Amb	09 20 03.1
ULM	Lac du Bonnet	37.62 352	P	P	09 19 23.9 -1.0
ULM	comp=Z,1.2nm,0.5s,baz=166,slow=9.3,SNR=27		pp	pp	09 19 40.5 -1.4
GO01	Chusimza	37.69 149	P	P	09 19 28.5 +2.1
PNTR	Pine Nut	37.73 319	I	Amb	09 20 19.9
D62A	Allapoint, All	37.76 22	I	Amb	09 19 47.1
BOZ	Bozeman (W)	37.90 334	I	Amb	09 19 47.1
NPGB	Novo Progresso	38.61 119	eP	eP	09 19 31.6 -2.0
NPGB	Novo Progresso	38.61 119	P	P	09 19 50.7 0.0
PLIV	Pearl Lake	39.56 329	I	Amb	09 20 00.1
SLD	San Ignacio	39.66 136	LR	LR	09 35 28.1
J08A	Circle Bar Ran	39.68 325	I	Amb	09 20 02.0
PDRB	Porto dos Gas	40.01 126	eP	eP	09 19 44.2 -1.2
PDRB	Porto dos Gas	40.01 126	P	P	09 20 01.5 -0.9
PTLB	Pontes e Lacer	40.64 133	P	P	09 19 50.4 -0.1
PTLB	Pontes e Lacer	40.64 133	eP	eP	09 19 48.4 -2.0
PTLB	Serra de San D	40.82 137	eP	eP	09 20 08.1 +0.6
BBS0	Serra de San D	40.82 137	eP	eP	09 19 50.9 -1.1
GO02	Minna Guanaco	42.23 154	P	P	09 20 10.2 +1.1
GO02	Minna Guanaco	42.23 154	I	Amb	09 20 26.7
NEW	Newport	42.38 332	P	P	09 20 04.7 +0.3
FFC	Flin Flon	42.94 349	I	Amb	09 20 08.9 +0.2
FFC	Flin Flon	42.94 349	I	Amb	09 20 26.9
FFC	Flin Flon	42.94 349	P	P	09 20 08.9 +0.2
SALV	Santo Antonio	43.44 130	pp	pp	09 20 26.5 +0.5
SALV	Santo Antonio	43.44 130	eP	eP	09 20 29.7 -0.6
B08A	Colville Reser	43.49 330	P	P	09 20 13.8 +0.4
AC02	Maricunga	43.90 154	P	P	09 20 19.8 +2.4
AC02	Maricunga	43.90 154	I	Amb	09 20 40.9
SNDB	Serra Nova Dou	44.60 122	eP	eP	09 20 20.8 -1.8
SNDB	Serra Nova Dou	44.60 122	P	P	09 20 39.6 -0.4
SCHO	Schefferville	45.12 18	P	P	09 20 24.4 -1.8
SCHO	comp=Z,3.2nm,18.8s,baz=215,slow=38		LR	LR	09 40 19.9
MURT	Porto Murinho	45.98 138	eP	eP	09 20 31.8 -1.7
MURT	Porto Murinho	45.98 138	P	P	09 20 52.0 +1.2
ARAG	Araguaiana, MT	46.27 127	eP	eP	09 20 32.4 -2.4
ARAG	Araguaiana, MT	46.27 127	P	P	09 20 53.6 +0.3
AQDB	Aquidauana	46.43 135	eP	eP	09 20 36.6 -0.4
AQDB	Aquidauana	46.43 135	P	P	09 20 54.6 +0.1
H03N2	Juan Fernandez	47.09 169	T	T	10 11 01.3
H03N1	Juan Fernandez	47.09 169	T	T	10 11 03.4
H03N3	Juan Fernandez	47.11 169	T	T	10 11 04.8
KUQ	Kuiujuauna	47.57 14	P	P	09 20 44.6 -0.7
RPRD	Ribas do Rio P	47.83 134	eP	eP	09 20 46.2 -1.7
RPRD	Ribas do Rio P	47.83 134	P	P	09 21 06.1 +0.7
BDFB	Brasilia	49.25 124	P	P	09 20 57.7 -1.4
CPUP	Villa Florida	49.55 142	P	P	09 21 00.2 -0.8
BO01	Tunca	49.99 161	P	P	09 21 05.5 +1.3
BBB	Bella Bella	50.25 329	LR	LR	09 46 55.5
PCMB	Pacaembu	50.29 133	eP	eP	09 21 05.8 -1.0
BIO2	San Fabin de	52.03 162	eP	eP	09 21 24.7 +0.4
BIO2	San Fabin de	52.03 162	I	Amb	09 21 42.5 -2.6
ITOB	Itaqui	52.47 144	eP	eP	09 21 21.7 -1.1
ITOB	Itaqui	52.47 144	P	P	09 21 41.5 +1.0
FRB	Frobisher Bay	52.62 11	LR	LR	09 45 17.9
YKAWI	Yellowknife Wh	52.75 345	I	Amb	09 21 43.1
YKA	Yellowknife Ar	52.79 345	P	P	09 21 24.0 -0.8
YKA	comp=Z,1.1nm,0.9s,baz=61,slow=1.7,SNR=236		pp	pp	09 21 42.5 0.0
YKA	comp=Z,2.8nm,1.0s,baz=144,slow=7.2,SNR=15		ScP	ScP	09 26 24.9 +0.2
YKA	comp=Z,0.6nm,0.6s,baz=144,slow=4.1,SNR=5		S	S	09 28 47.0 -0.8
YKA	comp=Z,0.3nm,0.9s,baz=154,slow=13.3,SNR=4.1		LR	LR	09 46 43.3
YKAW3	Yellowknife Wh	52.85 345	I	Amb	09 21 43.9
TOAD	Toad River Com	53.30 337	P	P	09 21 28.6 0.0
KOTAN	Kotanelee Air	53.77 339	P	P	09 21 32.0 0.0
LIRD	Liard River Hi	54.01 337	P	P	09 21 33.2 -0.5
T35M	Bob Quinn	54.13 333	P	P	09 21 34.6 -0.1
BEAVL	Fort Liard	54.16 339	P	P	09 21 34.7 -0.2
CRAG	Craig	54.57 331	P	P	09 21 37.7 -0.2

WRAK	Wrangell Islan	54.74 332	P	P	09 21 39.4 +0.4
DLBC	Dease Lake	54.92 335	LR	LR	09 49 40.7
DLBC	Dease Lake	54.92 335	P	P	09 21 40.7 +0.2
U33K	Whale Pass	54.92 331	P	P	09 21 41.0 +0.6
S34M	Telegraph Cree	55.07 334	P	P	09 21 42.0 +0.6
WTLY	Watson Lake, Y	55.50 337	I	Amb	09 22 07.8
WTLY	Watson Lake, Y	55.50 337	P	P	09 21 44.4 -0.1
TAOE	Nuku Hiva Isla	55.55 250	eLR	LR	09 37 40.7
WRGLY	Wrigley	55.84 342	P	P	0

10d 9h

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Table with columns: ID, Name, Comp, SNR, P, I, A, M, B, Date, Time, and other metrics. Includes entries like BCAR Beaver Creek A, L27K Beaver Creek, L27K Beaver Creek, INK Inuvik, G30M I'Aoh Zraii Nji, G30M I'Aoh Zraii Nji, M26K Nabesna, AK, BMRM Bremner River, BMRM Bremner River, F30M Barrier River, F30M Barrier River, H30M Whitestone, H29M Whitestone, Q23K Middleton Is, I28M Miner Creek, N25K Chitina, Valde, N25K Chitina, Valde, K27K Chicken, EYAK Cordova Ski Ar, A36M Sachs Harbour, L26K Log Cabin Wild, G29M Pine Creek, G29M Pine Creek, KLU Klutina, KLU Klutina, HARP HAARP, P23K Montague Is, I27K Kandik River, SCRJ Sand Creek, GLR1 Glacier Island, J26L Joseph Creek, M24K Tolson, Glenn, E29M Blow River, H27K Steamboat Moun, H27K Steamboat Moun, PAX Paxson, RIDG Independent Ri, RIDG Independent Ri, I26K Coal Creek Min, F28M Old Crow, G27K Doyon Strip, SCM Sheep Creek Mo, SCM Sheep Creek Mo, PWL Port Wells, K24K Donnelly Dome, K24K Donnelly Dome, M23K Glacier View, E28M Babbage River, E28M Babbage River, J25K Salcha River, KNK Knik Glacier, SEW Seward, D28M Stokes Point, SML Sawmill, WAT6 Susitna Watana, D2Y Denali Highway, OHK2 Cooper Landing, E27K Coleen River, E27K Coleen River, GHO Glory Hole Cre, PMR Palmer, PMR Palmer, PRP Porcupine Dome, PRP Porcupine Dome, G26K Porcupine River, RC01 Rabbit Creek A, RC01 Rabbit Creek A, BRSE Bradley Lake S, HDA Harding Lake, HDA Harding Lake, WAT1 Susitna Watana, ILAR Elison Array, ILAR Elison Array, ILAR Elison Array, D27M Malcolm River, H25L Birch Creek, KDAK Kodiak Island, KDAK Kodiak Island, M22K Willow, RND Reindeer, F26K Sheenjek River, HOM Homer, BMAR Burnt Mountain, BMAR Burnt Mountain, POKR Poker Flat Res.

Table with columns: ID, Name, Comp, SNR, P, I, A, M, B, Date, Time, and other metrics. Includes entries like Q20K Shuyak Island, CAPN Captain Cook N, COLA College, COLA College, COLA College, MCK McKinley, MCK McKinley, SUA Sunita One, OHAK Old Harbor, G25K Bearman Lake, F25K Christian River, F25K Christian River, SII Sitkinak Islan, NEA2 Nenana, H24K Noodor Dome, H20K Slope Mountain, TRF Thorofore Moun, TRF Thorofore Moun, SKT Skwentna, E25K Arctic Village, E25K Arctic Village, G24K Hadweencz Riv, G24K Hadweencz Riv, N20K Mount Spurr, SPCR Spurr Chakacha, RED Redoubt Volcan, P19K Oil Pt, C27K Jago River, C27K Jago River, Q19K Cape Douglas, Q19K Cape Douglas, I23K Minto, Yukon-K, I23K Minto, Yukon-K, R18K Karluk, KTH Kantishna Hill, SUMG Summit, CHIR Chief Islan, BPAW Bear Paw Mtn, H23K Yukon River, F24K Squaw Lake, PPLA Purkeypile, PPLA Purkeypile, C26K Camden Bay, MLY Manley, MLY Manley, M20K Styx River, CAST Castle Rocks, Q18K Katmai Hardscr, Q19K Port Alsworth, D25K Kavik River, CHUM Lake Minchum, E24K Your Creek, G23K Bananza Creek, G23K Bananza Creek, N19K Bonanza Creek, P18K Big Mountain, EUNU Eureka, EUNU Eureka, Q17K Contact Creek, O18K Kotkuth Hills, L20K Farewell, AK, I21K Tanana, H22K Ishlaltina Cre, COLD Coldfoot, COLD Coldfoot, M19K Big River Lodg, PPT Papeete, PPT2 Papeete2, PPT2 Papeete2, PPT2 Papeete2, PPT2 Papeete2, E23K Chandalar, E23K Chandalar, K20K Telida, D24K Happy Valley, D24K Happy Valley, L19K White Mountain, TOLK Toolik Lake Re, TOLK Toolik Lake Re, Q16K King Salmon, P17K Kvichak River, G22K Bettles, N18K Kliae River.

Table with columns: ID, Name, Comp, SNR, P, I, A, M, B, Date, Time, and other metrics. Includes entries like H21K Melozitna River, C24K Franklin Bluff, J20K Novitna River, M18K Stony River, R16K Pilot Point, O17K Kolkane Bris, D23K Nanushuk River, F22K John River, I20K Naaghdeneel, I20K Naaghdeneel, E22K Anaktuvuk Pass, E22K Anaktuvuk Pass, G21K Allakaket, G21K Allakaket, N17K Nushagak Hills, P16K Nushagak River, J19K Poorman, C23K Itkillik River, L18K Granite Mounta, F21K Alatina River, F21K Alatina River, H20K Anotleneega Mo, O16K Kokwok River B, CHNA Chernabura Isl, M17K Holitna River, M17K Holitna River, S14K Fog Glacier, J18K Innoke River, D22K Ayikyak River, N16K Nishik Lake, E21K Killik River, SDPT Sand Point, GCSA Galena City Sc, H19K Roundabout Mou, H19K Roundabout Mou, L17K Donlin, M16K Timber Creek, K17K Iditarod, F20K Avarat Lake, O15K Ungalikthiuk R, B22K Teshekpuk Lake, B22K Teshekpuk Lake, G19K Purcell Mounta, C21K Knifeblade Rid, TBI Tubuai, TBI Tubuai, TBI Tubuai, L16K Owhat River, N15K Kwethluk River, B21K Ikpikpuk River, J17K VABM Dome, E20K Nigu River, H18K Honhosa River, E19K Redstone River, F19K Shalercuk Mo, M15K Kasigluk River, S12K Black Hills, D20K Etivluk River, D20K Etivluk River, O14K Tiguaykuiet M, G18K Tagagawik, A22K Sinclair Lake, N14K Kusokwak Cree, J16K Arvik River, H17K Granite Mounta, D19K Kuna River, D19K Kuna River, L15K Ungalak Mounta, I17K Unalakleet, B20K Meade River, M14K Bethel, M14K Bethel, K15K Wolf Creek Mou, K15K Wolf Creek Mou, F18K Selawik, A21K Barrow, G17K Kwakla Mounta, L14K Kuka River, C19K Lookout Ridge, C19K Lookout Ridge, E18K Tulpahleark C, F17K Baldwin Pennin, M13K Dall Lake, G16K Koyuk River.



Table with columns: TXAR, Lajitas Array, 87.62 58 P, P, 09 47 14.1 +1.5. Includes other stations like CCB, Clear Creek Bu, ILAR, Eielson Array, etc.

IDC 10:09:38:02.3-0.5, 13.45N-44.81W, h0km, mb4.2/24, mbmp4.2/25, ML4.1/1, MS4.2/58, Error ellipse: s-maj=15.5km s-min=12.5km az=127.0

NEIC 10:09:38:05.5-1.9, 13.4N-0.1:44.8W-0.1, h10km, 1km, mb4.9/236, Error ellipse: s-maj=18.6km s-min=15.8km az=138.0

GCMT 10:09:38:06.5-0.2, 13.50N-0.02:44.83W-0.01, h10km, MW5.0/119, Moment Tensor Solution, s44,c51, s119,c202, Duration: 0 Moment tensor: Scale 1016Nm; Mw=4.64; M0=0.01e09; Mw4.63; Mb=0.80; 40; Mw0.42; 09; Mw=0.38; 27. Best double couple: Mw4.73600x1016 Np17s.176.00000; 843.00000; 1-103.00000; NP2s=14.00000; 648.00000; 1-78.00000; Principal axes: T 4.6900, Plg3.0000; Azm96.0000; N 0.0950, Plg9.0000; Azm186.0000; P -4.7830, Plg81.0000; Azm349.0000; nstai1 refers to body waves, cutoff=40s. nstai2 refers to surface waves, cutoff=50s. Triangular moment-rate function

INMG 10:09:38:06.0-1.1, 13.373N-44.78W, h10km, M4.6, Ms4.2, #DIST# RANGE: DISTANT

ISC 10:09:38:05.5-1.2, 13.50N-0.06:44.80W-0.06, h15km, n558, -0.875/446, mb4.8/119, MS4.3/58, 3C-4D, Northern Mid-Atlantic Ridge

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res. Includes stations like MDP, MDP, H05S1, etc.

Main station list table with columns: TXAR, Otavalo, 35.83 25 eP, P, 09 45 04.07 -0.7. Includes other stations like M65A, Busby, Falmout, H10N1, etc.

Main station list table with columns: TXAR, BTNL, 55.29 37 dP, P, 09 47 38.9 +0.5. Includes other stations like BFOV, Black Forest, Davos, etc.









Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various stations like Shilin, Nanau, Ruisui, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like IDC 10 01:39.3, etc.

Main table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like RPZ Kuma Peaks, WBO Warramunga Arr, WRAB Tennant Creek, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like IDC 10 01:27.2, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like AGPR Aguadilla, PR, HATOM Hato Mayor del, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists stations like IDC 10 01:32.0, etc.

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like P17K, STLK, Q22K, ACHA, SEW, etc.

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like MCK, BPAW, M14K, N25K, etc.

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like TXAR, KARS, SONM, ZALV, etc.

Code Station Name Az AzZ Phase ID Time Res
ISHB Shabestar 0.17 136 Pg Pg 10 20 47.6 -0.6
ITBZ Tabriz 0.57 108 Pg Pg 10 20 54.7 -0.9
ORD Ordubad 0.66 39 P S Pg 10 20 58.6 +1.0

WEL 10:26:34.5, 44:32S:168:14E, h18km, ML4.0, Mw3.7, Moment Tensor Solution. s5 Moment tensor: Scale 10^14

Code Station Name Az AzZ Phase ID Time Res
MSZ Milford Sound 0.41 200 P Op ISC h m s ISC
NSBS Neils Beach 0.48 53 S S Pg 10 26 47.8 +1.4

Code Station Name Az AzZ Phase ID Time Res
WHZ Wether Hill Ro 1.61 184 P Pg 10 27 02.6 +0.2
GCSZ Gaunt Creek Bo 1.87 59 P Pg 10 27 05.5 -0.4

Code Station Name Az AzZ Phase ID Time Res
WACZ Wakanu South 2.70 84 P Pg 10 27 18.0 +0.7
RACZ Rakaia 2.95 80 P Pg 10 27 22.3 +1.5

Code Station Name Az AzZ Phase ID Time Res
WRA Warramunga Arr 37.11 300 P P 10 33 45.1 +0.2
BRTR Keskin Array B 146.21 278 P PKPbc PKPbc 10 46 15.2 +0.5

ISK 10:28:28.4, 42:51N:35:08E, h9km, ML2.5/5
AFAD 10:28:30.2, 42:27N:35:08E, h38km, ML1.7







Table with columns: Code, Station Name, Az, Az2, Phase, ID, Op, Time, Res, ISC. Rows include stations like Mikurajimanish, Toshimihagashi, Izushimoda, Odawara 2, Mitsune, Shimizu, Shizoka 3, Ryogami san, Aashigaka, Matsushiro Arr, Kurchatov Arr, Warramunga Arr, ASAR Alice Springs.

SJA 10 11:43:14.6:0.7,29.81S:72.62W,h10km,ML4.1,MW4.0
GUC 10 11:43:23.0:0.9,30.02S:71.78W,h31km,7km,ML4.0
ISC 10 11:43:20.0:1.5,29.87S:0.03:72.08W+0.06,h11km+11km, n39,c202/61,1C-5D,Off coast of central Chile

Continuation of station list from the previous table, including stations like La Serena, Fray Jorge, Tololo Observa, Tololo Observa Las Campanas, El Pedregal, Combarbal, Juntas del Tor, Llanos de Chal, Llanos de Chal, El Transito, Rodeo, Cuesta del Vie, Cerro Coronel, Catalpio, Copiapo, Copiapo, Reserva Natura, Leontico, GUANDACOL, San Esteban, El Roble, Zonda, Curacav, Peldehue, Vichina, Renca, Coronel Fothergill, Ro Olivares, Pan de Azucar, Bocatomia Ro, Cerro Arco, Popeta, San Alfonso, Agrelo, Las Melosas, CERRO LA CRUZ, Tunca.

NEIC 10 12:12:54.5:2.2,33.490N,0.007E,116.71W,0.02, h5km,1km,Error ellipse: s-maj=2.9km s-min=2.7km az=73.0

PAS 10 12:12:55.2:2.0,33.52N,0.02:116.73W,0.03,h3km,6km, ML3.0/171,ML2.9/363(NEIC),Error ellipse: s-maj=3.5km s-min=2.4km az=130.0,Southern California

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Op, Time, Res, ISC. Rows include stations like CRY, BZNA, SZA, FRD, GARN, PLY, POF, PFO, PFO, DGR, BORC, DEVC, BEAM, JUEM, EW2, PEC, DPP, GORC, ELS, CFT, BLAC, CTC, EML, SVD, RSBC, MONP2, MONP2, CPE, CPE, RVR, MTRP, BBRC, SDR, SDR, GTM, BAR, MLSC, BOMB, CHNC, CLP, TKX, IKP, BFC, SSK, YUH, YUH, CBX, PASO, CCX, ESJX, ESJX, GLA, GLA, GLA, GSC, GSC, BLYC, BLYC, CCAC, CCAC, CCAC, VTX, ISA, BCW, BCW, BCW, WRY, W13A, Y14A, TPNV, DSP, U15A, WRA, ASAR, LEM, MKAR.

IDC 10 12:23:45.7:2.9,7.14S:147.90E,h0km,mb3.4/2, mbmp3.5/4,ML2.5/2,MS3.5/1,Error ellipse: s-maj=7.1km s-min=26.0km az=85.0,Eastern New Guinea region

Continuation of station list from the previous table, including stations like Port Moresby, Warramunga Arr, Alice Springs, Makanchi Array, Luuwik, Tolitoli, FAKI, TPUB, KNRA, FITZ, WBO.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Op, Time, Res, ISC. Rows include stations like WBO, WRAB, WRA, WRA, WRR, AS31, AS31, ASAR, ASAR, STKA, EVN, MKAR, MKAR, MAZK, MAZK, ZALV, KURBB.

IDC 10 12:31:48.2:1.0,31.45N:128.79E,h0km,mb3.3/5, mbmp3.6/10,ML3.5/5,MS3.0/10,Error ellipse: s-maj=29.2km s-min=17.0km az=92.0

NIED 10 12:31:48.0:3.1,44N:128.82E,h14km,MW3.9,Moment Tensor solution. s3 Moment tensor: Scale 10^14Nm; Mn:-1.71; Mw:2.75; Mxx:-1.04; Myy:-3.98; Mzz:7.89; Mxy:-0.20; Fault plane solution: M69.04000x10^14 NP1: 0s187.00000, 0s63.00000, -s1.27.00000. NP2: 0s95.00000, 0s86.00000, -s1.27.00000

JMA 10 12:31:48.0:0.2,31.44N:0.5:128.8E:0.6,h14km,1km, MW4.1/34,SW OFF KYUSHU

ISC 10 12:31:48.4:0.8,31.43N:0.04:128.88E:0.06,h10km,n25, s15S:22,mb3.4/5,MS3.1/8,4D,Northwest of Ryukyu Islands

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Op, Time, Res, ISC. Rows include stations like JSJ, JSJ, JFU, JFU, JFU, JSU, JYAK, JYAK, JYZ, JYU, JYU, JOW, JOW, KSRS, KSRS, KSRS, ASAJ, ASAJ, KLR, GUMO, CMAR, PETK, ZALV, MKAR, MKAR, WRA, ARTI, AKTO, ASAR, ILAR, BELG, JSU, JSU, JSU, JTSR, JTSR, JTSR, JSJ, JSJ, JSJ, JTN, JTN, JTN, JYT, JYT, JZO, JMTN.

IDC 10 13:00:54.1:0.8,31.28N:130.35E,h148km,6km,mb3.6/19, mbmp4.0/24,MS3.0/2,Error ellipse: s-maj=16.5km s-min=8.1km az=102.0

NIED 10 13:00:55.8,31.29N:130.47E,h152km,MW4.2,Moment Tensor solution. s3 Moment tensor: Scale 10^15Nm; Mn:0.37; Mw:-0.10; Mxx:-0.27; Myy:-0.19; Mzz:0.26; Mxy:2.36; Fault plane solution: M2.40000x10^15 NP1: 0s237.00000, 0s7.00000, -s1.151.00000. NP2: 0s365.00000, 0s86.00000, -s1.83.00000

JMA 10 13:00:55.6:0.1,31.3N:0.3:130.5E:0.7,h152km, MD3.9/38,MV4.0/38,SATSUMA PENINSULA REGION

JMA Feli J1 at SATSUMA PENINSULA REGION

NEIC 10 13:00:55.7:2.0,31.31N:0.06:130.41E:0.10, h159km,7km,mb4.3/30,Error ellipse: s-maj=13.0km s-min=8.3km az=115.0

ISC 10 13:00:55.0:0.6,31.30N:0.04:130.43E:0.05,h156km,5km, n111,s118/118,mb4.2/46,4D,Kyushu

Table with columns: Station Name, Frequency, Band, Mode, and other technical details. Includes stations like JMTN, JYAK, JUKA, JUI3, JNU, etc.

Table with columns: Station Name, Frequency, Band, Mode, and other technical details. Includes stations like NB2, NOA, NC204, BURAR, etc.

Table with columns: Station Name, Frequency, Band, Mode, and other technical details. Includes stations like YUK, SHO, SHO, SHO, etc.

10d 13h

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Frequency, Elevation Frequency, Azimuth Wavelength, Elevation Wavelength, Azimuth Velocity, Elevation Velocity, Azimuth Acceleration, Elevation Acceleration, Azimuth Deceleration, Elevation Deceleration, Azimuth Jerk, Elevation Jerk, Azimuth Snap, Elevation Snap, Azimuth Crackle, Elevation Crackle, Azimuth Pop, Elevation Pop, Azimuth Click, Elevation Click, Azimuth Whistle, Elevation Whistle, Azimuth Hum, Elevation Hum, Azimuth Buzz, Elevation Buzz, Azimuth Rattle, Elevation Rattle, Azimuth Rumble, Elevation Rumble, Azimuth Roar, Elevation Roar, Azimuth Scream, Elevation Scream, Azimuth Shout, Elevation Shout, Azimuth Yell, Elevation Yell, Azimuth Cry, Elevation Cry, Azimuth Wail, Elevation Wail, Azimuth Howl, Elevation Howl, Azimuth Scream, Elevation Scream, Azimuth Shout, Elevation Shout, Azimuth Yell, Elevation Yell, Azimuth Cry, Elevation Cry, Azimuth Wail, Elevation Wail, Azimuth Howl, Elevation Howl.

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Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Frequency, Elevation Frequency, Azimuth Wavelength, Elevation Wavelength, Azimuth Velocity, Elevation Velocity, Azimuth Acceleration, Elevation Acceleration, Azimuth Deceleration, Elevation Deceleration, Azimuth Jerk, Elevation Jerk, Azimuth Snap, Elevation Snap, Azimuth Crackle, Elevation Crackle, Azimuth Pop, Elevation Pop, Azimuth Click, Elevation Click, Azimuth Whistle, Elevation Whistle, Azimuth Hum, Elevation Hum, Azimuth Buzz, Elevation Buzz, Azimuth Rattle, Elevation Rattle, Azimuth Rumble, Elevation Rumble, Azimuth Roar, Elevation Roar, Azimuth Scream, Elevation Scream, Azimuth Shout, Elevation Shout, Azimuth Yell, Elevation Yell, Azimuth Cry, Elevation Cry, Azimuth Wail, Elevation Wail, Azimuth Howl, Elevation Howl.

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Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Frequency, Elevation Frequency, Azimuth Wavelength, Elevation Wavelength, Azimuth Velocity, Elevation Velocity, Azimuth Acceleration, Elevation Acceleration, Azimuth Deceleration, Elevation Deceleration, Azimuth Jerk, Elevation Jerk, Azimuth Snap, Elevation Snap, Azimuth Crackle, Elevation Crackle, Azimuth Pop, Elevation Pop, Azimuth Click, Elevation Click, Azimuth Whistle, Elevation Whistle, Azimuth Hum, Elevation Hum, Azimuth Buzz, Elevation Buzz, Azimuth Rattle, Elevation Rattle, Azimuth Rumble, Elevation Rumble, Azimuth Roar, Elevation Roar, Azimuth Scream, Elevation Scream, Azimuth Shout, Elevation Shout, Azimuth Yell, Elevation Yell, Azimuth Cry, Elevation Cry, Azimuth Wail, Elevation Wail, Azimuth Howl, Elevation Howl.



Table with columns for station name, frequency, and signal strength. Includes stations like PIEI, TOLF, MPAG, CERA, BADI, CEFI, etc.

Main table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like FETA, WTTA, WTTA, WTTA, WTTA, etc.

Table with columns for station name, frequency, and signal strength. Includes stations like DGI, DGI, DGI, DGI, DGI, etc.







Table with columns: ID, Name, Az, El, P, M, Az, El, P, M. Rows include P29M Windy Craggy, PRP Porcupine Dome, GAMB Gamba, F20K Avaraart Lake, TNA Tin City, G23K Banaza Creek, G22K Bettles, HYT Haines Junctio, F21K Alatna River, E17K Hotham Inlet, P30M Million Dollar, I26K Coal Creek Min, M29M Somme Creek, E19K Redstone River, H25L Birch Creek, G24K Hadweenzic Riv, E18K Tukpahleark C, PLBC Pleasant Camp, S31K Pelican, COLD Coldfoot, N30M Aishiki Lake, F22K John River, ATKA Atka Island, DAWY Dawson, L29M L29M, G25K Bearman Lake, R31K City Hall, Gus, O30N Mendenhall, D17K Kandik River, D17K Noatak River, SKAG Skagway, SIT Sitka, F24K Squaw Lake, E20K Nigu River, N31M Braeburn, Yuko, E22K Anaktuvuk Pass, K29M Barlow Dome, RDOG Red Dog Mine, I28M Miner Creek, E23K Chandalar, E21K Kilik River, WHY Whitehorse, R32K Eaglecrest, D19K Kuna River, G26K Porcupine River, S32K Killisnoo, H27K Steamboat Moun, E24K Your Creek, F20K Christian River, D25K Etivuk River, C18K Utukok River, C17K DeLong Moutai, G27K Doyon Strip, C16K Lisburne Hills, I29M Ogilvie Camp, D22K Ayikyak River, D22K Ayikyak River, TOLK Toolik Lake Re, F26K Sheenjek River, M31M Drury Creek, Y, E25K Arctic Village, C21K Knifeblade Rid, C19K Lookout Ridge, C19K Lookout Ridge, J30M Hart River, D23K Nanushuk River, D23K Nanushuk River, P33M Teslin Yukon, N32M Quiet Lake, H29M Whitestone, H29M Whitestone, U33K Whale Pass, I30M Mount Dempster, I30M Mount Dempster, FARO Faro, Yukon, B18K Kokolik River, D24K Happy Valley, B21K Ipkpuk River, CRAG Craig, Q32M Nakina River, WRAK Wrangell Islan, F28M Old Crow, E27K Colson River, B20K Meade River, B20K Meade River.

Table with columns: ID, Name, Az, El, P, M, Az, El, P, M. Rows include G29M Pine Creek, EPYK Eagle Plains, C23K Itkik River, D25K Kavik River, C24K Franklin Bluff, R33M Jennings River, B22K Teshepuk Lake, V35K Ketchikan, H31M Peel River, G30M I'ah Zraii Njii, MMPY Sheldon Lake, C27K Jago River, E28M Babbage River, C26K Camden Bay, DLBC Dease Lake, T35M Bob Quinn, D27M Malcolm River, A22K Sinclair Lake, E29M Bior River, F30M Barrier River, G31M Satah River, G31M Satah River, U35K Hyder, WTLY Watson Lake, Y, TGTN Hyland Airport, INK Inuvik, INK Inuvik, INK Inuvik, LIRD Liard River, BEAVL Fort Liard, TOAD Toad River Com, BBB Bella Bella, SHEM Shemya Is, WRGLY Wrigley, C36M Paulatuk, C36M Paulatuk, A36M Sachs Harbour, A36M Sachs Harbour, BILL Bilibino, YKAW3 Yellowknife Wh, YKA Yellowknife Ar, YKAW1 Yellowknife Wh, A04D Lummi Island, NEW Newport, J05D Fort Rock, OR, PETK Petropavlovsk, PETK Petropavlovsk, MA2 Magadan, MPK Mat Peak, HLID Hailey, PAHR Pah Rah Range, YHB Horse Butte, ELK Elko, NVAR Nivariy Bay, NVAR Nivariy Bay, LHV Little Huntoon, H17A Grant Village, DSP Deser Peak, HWUT Hardware Ranch, R11B Trout Canyon, BW06 Boulder Array, P31 Pinedale Array, PDAR Pinedale Array, GSC Goldstone, MVU Marysvalley, RSSD Black Hills, PFO Pinyon Flats O, W13A Hualapai Mount, PV21 Cone Mtn., YAK Yakutsk, PV18 Skaik Canyon, PV05 Paradox Valley, PV15 Parox Valley, Y14A Wickenburg, X16A Lo Mia Camp, 113A Mohawk Valley, NEEM North Greenlan, NEEM North Greenlan, 214A Organ Pipe Nat, NOR Nord, VHRN Van Horn.

Table with columns: ID, Name, Az, El, P, M, Az, El, P, M. Rows include VHRN, DAG Danmarks Havn, SUGC Summit, WMOK Wichita Mounta, WMOK, SPITS, TX31, TX31, TXAR, DBG Daneborg, DBG, ICESG Greenland Ices, ICESG, FCAR Ozark Folk Cen, SOEG Soedalen, SOEG, ANGO Ammassalik, TKL Tuckaleechee C, KSRS Korea Array, ARCES ARCESS Array B, BORG Borgarfj, SONM Songino Array, SONM Songino Array, SONM, HHC Hu-ho-hao-te, HHC, HHC, ZALV Zalesovo Beam, FINES FINESS Array, NB2 NORARS Subarra, NOA NORARS Array B, LYN LuoYang, LYN, HFS Hagfors, KURBB Kurchatov Arr, ARTI Art, BVAR Borovoye Array, GTA Gaotai, LZH Lanzhou, LZH, MKAR Makanchi Array, NORARS Norars Array B, EKA Eskdalemar Ar, BELG Belogorye, AKTO Aktubinsk, AB31 Akbulak array, ABKAR Akbulak array, BRG Bergliesshult, BRG, AKASG Malin Array Be, KKAR Karatay Array, STHS Stebnicka Huta, PZH PanZhihua, KSH Kashi, GERES GERESS Array B, MOA Molln, CONA Conrad Observa, RETA Reutte, MOTA Moosalm, LESA Schwarzleotal, WATA Walderalm, WTTA Wattenberg, SFTA Sankt Quirin, KBA Koelnbreinsper, DAVOX Davos/Dirschal, ABTA Abfallersbach, SOKA Soboth, OBKA Obir, KBZ Khabar, ESCD Sonsea Array, CMAR Chiang Mai Arr, CMAR Chiang Mai Arr, BRTR Keskin Array B, BRTR Keskin Array B, OSPA South Pole Quj, TRN 10:13:27.21, 18:21N-62:18W, h27km, MD3.6, North-west of Barbudia., Leeward Islands, Code Station Name, Az, El, Phase ID, Time Res, ANWB Willy Bob.

Table with columns: Station Name, Frequency, Power, and other technical details for stations like ANWB, SKI, and ANBD.

IDC 10 13:38:36.7±1.8, 24.29S; 179.91E, h505km; 17km, mb3.5/5, mbmp4.4/8, Error ellipse: s-maj=26.5km s-min=19.3km az=152.0

NEIC 10 13:38:39.8±1.6, 24.3S; 0.1x179.89E; 0.08, h544km; 8km, mb4.4/33, Error ellipse: s-maj=20.7km s-min=10.3km az=168.0

ISC 10 13:39:37.5±0.6, 24.38S; 0.07h; 179.93E; 0.10, h517km, n66, n1544/70, mb4.3/21, South of Fiji Islands

Main station list table with columns: Code, Station Name, Frequency, Power, and other technical details for numerous stations including GLKZ, MSVF, PINNC, etc.

NEIC 10 13:44:27.1±1.2, 58.70S; 0.04; 25.1W; 0.2, h21km; 5km, mb4.9/35, Error ellipse: s-maj=14.7km s-min=5.8km az=87.0

IDC 10 13:44:27.8±2.0, 58.60S; 25.15W, h24km; 11km, mb4.4/12, mbmp4.6/13, ML5.4/1, MS4.4/31, Error ellipse: s-maj=19.6km s-min=14.0km az=52.0

GCMT 10 13:44:31.1±0.2, 58.81S; 0.02; 24.63W; 0.03, h24km, MW5.1/105, Moment Tensor Solution. s61, c86; s105, c143; Duration: 0 Moment tensor: Scale 10^16Nm; Mn=4.4±.21; M0=0.09±.15; M2=0.43±.14; M1.6±.23; M3=1.36±.09; M4=2.54±.18; Best double couple:

M5.50000x1016 NPl: 186.00000, delta30.00000, 1.73.00000, NP2: 26.00000, delta62.00000, 1.100.00000, Principal axes: T 5.4130, Plg17.0000, Azm318.0000; N 0.1730, Plg9.0000, Azm201.0000; P -5.5870, Plg16.0000, Azm109.0000; nsta1 refers to body waves, cutoff=40s, nsta2 refers to surface waves, cutoff=50s.

Triangular moment-rate function

ISC 10 13:44:27.4±0.3, 58.61S; 0.08; 24.94W; 0.09, h28km, n408, n0959/379, mb4.8/26, MS4.5/30, 2C-5D, South Sandwich Islands region

Main station list table with columns: Code, Station Name, Frequency, Power, and other technical details for numerous stations including HOPE, VNA3, VNA2, SNA3, etc.

Main station list table with columns: Code, Station Name, Frequency, Power, and other technical details for numerous stations including G001, SNDB, H10N1, H10N3, etc.







Tensor Solution. Moment tensor: Scale 10^14Nm; Mw=2.38; Mw-0.32; Mw=2.06; Mw-1.18; Mw=4.25; Mw=0.05; Fault plane solution: M=4.9000x10^14 NP1; ...

NEIC 10 14:50:45.3, 41.68N, 81.46W, h2km OTT 10 14:50:45.3, 0.2, 41.69N, 81.47W, h2km, MN4.5/15, MW4.0(NEIC)

OTT South Shore Lake Erie. Felt 84km southeast from Blenheim, On Eastern Background Seismic Zone. Felt in Hamilton, Brantford, Sarnia, Ontario.

ISC 10 14:50:44.9, 0.5, 41.69N, 0.03, 81.47W, 0.03, h10km, m169, r=112/113, mb4.0/15, MS3.2/5, Ohio

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists various seismic stations and their characteristics.

Main table of seismic events with columns: TOBO, N58A, P48A, KLBO, K57A, S54A, PECO, BUKO, MVL, KSPA, R49A, SFIN, BLA, BLO, LUPA, HQIL, L59A, WCI, BRNJ, H43A, U56A, J59A, P61A, PAL, LON, V55A, ACCN, USIN, V53A, TKL, TKL, TKL, T47A, KMCS, FRNY, L61B, JFWS, W57A, CPCT, TRQ, BG3, J61A, MNTQ, PAUL, VT1, UCCT, HNH, BIRD, T45A, SWET, SLM, HRV, LBNH, HDGE, Y58A, Y60A, CCM, LNXT, GOGA, HALT, X48A, PBMO, PEBM, NHSC, Y49A, CSU, GNAR, MET, L52A, HBAR, LRAL, Z47A, ULM, ULM, SMWD, SMWD, SCHO, SCHO.

Table of seismic events with columns: SCHQ, APMT, AMTX, RTBA, SGCV, OZNA, PV15, LOHW, TPWA, TXAR, BSUT, BPMT, BLKN, PSUT, NEW, C09A, YKA, LPIG, POIN, A36M, SIT, G31M, BCAR, BMAR, D25K, ILAR, E22K, L18K, N17K, C16K, ESDC, ARCES, LPAZ, FINES, DAVOX, BVAR, KURBB, HHC, WRA, STKA, ASAR.

IDC 10 14:51:50.4, 13.0, 14.79S, 165.96E, h0km, mb3.8/3, mbmt3.8/4, ML3.8, 1.01, Error ellipse: s-maj=236.2km s-min=37.1km az=57.0

NOU 10 14:51:55.5, 14.88S, 166.88E, h23km, ML4.7/12, Vanuatu Islands

ISC 10 14:51:49.6, 1.0, 14.67S, 0.06, 166.3E, 0.2, h10km, m11, r=130/112, mb3.8/3, Vanuatu Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists seismic stations and event data.

CATAC 10 15:03:34.7, 1.0, 13.1N, 6.8W, h22km, 6km, M3.7/18, MLV3.7/18, Error ellipse: s-maj=13.8km s-min=6.9km

SNET 10 15:03:37.1, 1.4, 13.23N, 89.30W, h50km, ML3.6 GCG 10 15:03:37.0, 1.8, 13.13N, 89.45W, h39km, 15km, MD3.7, ML3.0

ISC 10 15:03:32.7, 1.8, 12.93N, 0.07, 89.39W, 0.04, h12km, m11km, n78, 0.00, 92, Off coast of central America

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists seismic stations and event data.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LOMA, LOMA Larga, LOMA, LOMA Larga, LOMA, LOMA Larga, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SHZ3, SHIZUOKA 3, JSG, SAGARA, JSG, SAGARA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NWA0, NARROGIN (SRO), NWA0, NARROGIN (SRO), etc.

CATAC 10 15:42:07.2±0.5, 12.7N±6.87W±1.1, h193km±3km, M2.4/15, ML2.4/15, Error ellipse: s-maj=16.6km s-min=4.6km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like CNGA, AI SSO del Vol, CNGM, Cerro Negro, etc.

DJA 10 15:54:27.4±0.3, 3.5S±13.7E±1.1, h10km, M3.8/6, mb4.0/4, ML3.6/6

IDC 10 15:54:30.6±1.6, 3.57S±137.99E, h0km, mb3.4/2, mbmp3.5/4, ML3.5/2, MS3.7/2, Error ellipse: s-maj=37.1km s-min=25.9km az=132.0

ISC 10 15:54:27.17±1.1, 3.11S±137.45E±0.05, h54km±14, t=29±15, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI, SARMI, SRPI, SERUI, PAPA, BAKI, BIAK, etc.

MOS 10 15:59:55.9±0.9, 17.34N±147.75E, h19km, mb5.0/47, Error ellipse: s-maj=8.9km s-min=5.1km az=108.2

IDC 10 15:59:55.7±0.5, 17.35N±147.94E, h0km, mb4.6/29, mbmp4.6/31, ML5.0/2, MS3.6/31, Error ellipse: s-maj=17.1km s-min=11.2km az=85.0

NEIC 10 15:59:58.5±1.4, 17.40N±147.8E±0.1, h10km, 1km, mb5.0/271, Error ellipse: s-maj=17.4km s-min=10.5km az=93.0

DJA 10 15:59:58.1±0.4, 17.1N±14.8E±1.1, h10km, M5.0/9, mb5.0/9, mb5.1/2, ML5.0/1, Mw(MB)4.4/2

BUI 10 16:00:02.4, 17.75N±147.45E, h25km, mb4.9/13, mb4.6/49, Ms4.1/9, Ms7.3/9.9

ISC 10 15:59:59.7±0.7, 17.30N±147.85E±0.06, h23km±4km, m645, t104/535, mb4.9/209, MS3.7/33, 15C-7D, Mariana Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GUMO, GUAM, ASAR, ALICE SPRINGS, etc.

NEIC 10 15:14:25.8±1.2, 18.99N±146.72E±0.3, h206km±12km, mb4.2/10, Error ellipse: s-maj=39.2km s-min=6.9km az=100.0

IDC 10 15:14:25.5±3.4, 18.93N±146.01E, h210km±25km, mb3.1/4, mbmp3.9/7, Error ellipse: s-maj=61.2km s-min=14.4km az=80.0

ISC 10 15:14:24.9±1.4, 19.03N±146.06E±0.3, h200km±20, t=60±21, mb3.9/8, Mariana Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GUMO, GUAM, JOW, KUNIGAMI, etc.

NIED 10 15:25:41.3±0.1, 34.93N±138.23E, h29km, MW3.9, Moment tensor Solution, s-3 Moment tensor: Scale 1014Nm; Mn:1.01; Mo:4.84; Ms:3.83; M:4.36; Mo:1.83; Mo:3.96;

JMA 10 15:25:41.3±0.1, 34.93N±138.23E±0.4, h29km±1km, MD4.0/20, MV4.1/20, CENTRAL SHIZUOKA PREF

JMA Feil J1 at CENTRAL SHIZUOKA PREF IDC 10 15:25:42.4±1.9, 34.81N±138.08E, h44km±18km, mb3.3/8, mbmp3.6/12, ML3.9/4, MS3.3/4, Error ellipse: s-maj=23.5km s-min=12.2km az=106.0

ISC 10 15:25:40.8±0.8, 34.89N±138.25E±0.04, h32km±5km, n41, t=99±28, mb3.6/3, 3D, Near south coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SHZ3, SHIZUOKA 3, etc.

WEL 10 15:26:42.0±1.0, 34.5S±17.9E±1.3, h12km, M4.0/13, mb4.3/2, ML4.1/16, ML4.0/13, Mw(MB)3.5/2, Error ellipse: s-maj=16.7km s-min=7.2km az=96.3, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MXZ, MATAKAOA POINT, etc.

AUST 10 15:32:08.9±0.3, 30.2°S±2.11°E±1.1, h10km, mb4.3/3, ML3.2/4, Error ellipse: s-maj=5.1km s-min=4.0km az=88.0

NOU 10 15:32:09.1, 30.33S±17.74E, h0km, ML3.7/11, Western Australia

ISC 10 15:32:07.8±0.7, 30.37S±17.82E±0.04, h10km±2, t=156±132, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BLDU, BALLIDU, etc.

Table with columns: Station Name, Frequency, Power, Modulation, Date/Time, and other parameters. Includes stations like MAJO Matsushiro, MJB9 Matsushiro, JSD Sado, etc.

Table with columns: Station Name, Frequency, Power, Modulation, Date/Time, and other parameters. Includes stations like HHC comp=Z,150nm,15.3s, WBO Warramunga Arr, etc.

Table with columns: Station Name, Frequency, Power, Modulation, Date/Time, and other parameters. Includes stations like MOY comp=Z,1.13nm,2.1s, P08K Saint George I, etc.

10d 15h

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like Q19K Cape Douglas, E17K Hotham Inlet, O19K Port Asworth, etc.

2019 JUN

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like P23K Montague Islan, SML Sawmill, SHLS Shalooke, etc.

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Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like J25K Salcha River, J25K Salcha River, RIDG Independent RI, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like N30M, K29M, G29M, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like ARTI, TAEO, AB31, etc.

Table with columns for station code, name, frequency, time, and signal strength. Includes stations like TUC, RSSD, RSSD, etc.

IDC 10 16:04:37.61.2.34.17N:8.39E, h0km, mb3.6/11, mbmp3.6/12, ML3.8/1, MS3.0/6, Error ellipse: s-maj=27.9km s-min=15.9km az=120.0

CRAAG 10 16:04:40.34.29N:8.40E, MB4.3, Tunisia NEIC 10 16:04:41.1.6.34.35N:0.09E:39E:0.04, h10km, 1km, mb4.3/8, Error ellipse: s-maj=15.6km s-min=3.9km az=192.0

Table with columns for code, station name, frequency, time, and signal strength. Includes stations like OAR, GERT, CNGR, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like LVZ Lovozero, KURB Kurchatov, MKAR Makanchi Array, etc.

DJA 10 16:11:28.9±0.5, 3.4°S, 131°11'E, h50km, 32km, M3,4/7, MLV3,4/7

ISC 10 16:11:26.8±1.2, 3.48S, 0.07°131°32E, 0.08, h24km, n12, s1973/13, Irian Jaya region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like FAKI Fak Fak, BNDI Bandanaira, etc.

IDC 10 16:12:10.3±1.4, 4.1°N, 134°93E, h425km, 19km, mb2.7/3, mbtmp3.5/7, Error ellipse: s-maj=27.3km s-min=23.2km az=56.0

JMA 10 16:12:10.1±0.4, 4.1°N, 134°93E, h461km, MV3.3/20, SEA OF JAPAN

ISC 10 16:12:09.5±0.9, 4.11°N, 0.08°135°25E, 0.08, h450km, n18, s1890/22, mb2.9/3, Sea of Japan

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like JIW Iwasaki, JSD Sado, USRK Ussuriysk Ar., etc.

IDC 10 16:15:34.5±6.3, 19.76S, 176°93W, h0km, mb3.7/3, mbtmp3.7/3, MS3.5/1, Error ellipse: s-maj=314.7km s-min=60.3km az=149.0, Fiji Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warrungarra Arr, FITZ Fitzroy Crossi, etc.

ISN 10 16:25:40.9±0.3, 36°33'N, 45°01'E, h10km, ML2.7, TEH 10 16:25:40.8, 36°43'N, 45°07'E, h10km

ISC 10 16:25:41.9±1.3, 36°44'N, 0.145±2E, 0.2, h10km, n4, s968/6, Iran-Iraq border region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like MAHB Mahabad, IKRK Kirkuk, IZAR Azarshahr, etc.

IDC 10 16:31:43.8±1.3, 8.91N, 126°52E, h0km, mb3.5/4, mbtmp3.5/4, MS2.4/1, Error ellipse: s-maj=88.9km s-min=22.7km az=78.0, Mindanao

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like DAV Davao City (W), WRA Warrungarra Arr, ASAR Alice Springs, etc.

IDC 10 16:34:51.1±1.3, 9°46'N, 93°47'E, h0km, mb3.6/7, mbtmp3.6/7, MS3.2/1, Error ellipse: s-maj=46.6km s-min=20.5km az=58.0

BKK 10 16:34:59.5±1.1, 10°16'N, 93°47'E, h10km, M4.3, mb4.6/3, BKK 10 16:34:59.5±1.1, 10°16'N, 93°47'E, h10km, M4.3, mb4.6/3

mB6.5/1, Mjma4.0/8, ML4.3/7, MLv4.2/8, Mw(mB)6.2/1

ISC 10 16:34:54.6±1.3, 9.5N, 0.2°93°30E, 0.11, h22km, n11, s259/11, mb3.5/7, Nicobar Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like RNT Ranong, SRIT Srirangapatna, PSI Prapat, etc.

SKHL 10 16:45:31.3±0.1, 46°80'N, 141°60'E, h14km, mb3.6/6, JMA 10 16:45:31.3±0.6, 47°N, 142°E, h0km, MV2.5/13, SOUTH SAKHALIN

ISC 10 16:45:31.5±1.6, 46°31'N, 0°06'141°60E, 0.08, h9km, n7, s454/11, Sakhalin Island

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NEVR Nevel'sk, KHLM Kholmok, YSS Yuzhno-Sakhalin, etc.

IDC 10 16:48:15.4±5.3, 44°01'S, 168°62E, h0km, mb3.6/3, mbtmp3.6/3, Error ellipse: s-maj=196.5km s-min=32.2km az=56.0

WEL 10 16:48:17.7±0.7, 44°S, 168°E, h5km, M3.9/7, ML4.0/7, MLV3.9/7, Error ellipse: s-maj=7.7km s-min=3.4km az=130.4, confirmed

WEL 10 16:48:17.7, 44°33'S, 168°15'E, h15km, ML3.9, Mw3.7, Moment Tensor Solution: m8 Moment tensor: Scale 10^14 Nm; Mr:1.68; Mw:0.06; Ms:1.62; Md:2.33; M0:0.08; Mw:3.12; Fault plane solution: M4.190000°10^14 NP1: 0.320000°-0.800000°; λ:1.010000° NP2: 0.16500000°; 3.1500000°; A.3.000000° Principal axes: T 4.4980, Plg5.4000°, Azm316.0000°; N -0.6090, Plg11.0000°, Azm210.0000°; P -3.8890, Plg34.0000°, Azm113.0000° Stations used: JCZ WKZ MLZ EAZ LBZ WHZ ODZ RPZ REVERSE FAULTING

NOU 10 16:48:18.9±4.2, 23'S, 168°21E, h7km, MLV4.2/12, South Island, New Zealand

ISC 10 16:48:18.1±0.8, 44°33'S, 0.04°168°16E, 0.04, h10km, n31, s971/35, mb3.4/3, South Island

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like MSZ Milford Sound, NSBS Neils Beach, JCY Jackson Bay, etc.

IDC 10 16:59:10.0±0.4, 6°60'S, 131°87E, h0km, mb4.9/18, mbtmp5.0/20, ML5.3, MS4.6/20, Error ellipse: s-maj=22.9km s-min=11.1km az=77.0

BUI 10 16:59:11.6, 6°88'S, 132°22E, h48km, mb5.2/53, mb5.0/80, MS5.0/72, MS7.4/8/8

MOS 10 16:59:16.1±1.0, 6°55'S, 131°93E, h59km, mb5.5/49, MS4.8/5, Error ellipse: s-maj=7.5km s-min=4.8km az=115.7

DJA 10 16:59:17.0±0.2, 7°S, 1°13'2E, h56km, 2km, M5.4/107, mb5.9/66, mb5.6/107, MLV6.5/17, Mw(mB)5.5/66, Mw(mB)5.5/66, Mw(mB)5.5/66

NEIC 10 16:59:17.2, 6°57'S, 131°90E, h48km, NEIC 10 16:59:18.5, 1.7, 6°58'S, 0.06°131°86E, 0.07, h61km, 1km, mb5.3/214, Mw6.5/420, Mw5.5/17, Error ellipse: s-maj=12.3km s-min=9.3km az=278.0, Moment Tensor Solution: Moment tensor: Scale 10^17Nm; Mr:0.39;

Mw-1.36; Mw0.97; Mw-0.05; Mw0.81; Mw-0.81; Fault plane solution: M4.167000°10^17 NP1: 0.246, 71000°, 663.92000°, λ:19.03000° NP2: 0.148, 09000°, 672.97000°, λ:152.63000°. Principal axes: T 1.7030, Plg31.0000°, Azm105.0000°; N -0.0681, Plg5.0000°, Azm299.0000°; P -1.6349, Plg6.0000°, Azm199.0000°;

NEIC 10 16:59:18.6, 57'S, 131°88E, h50km, Moment Tensor Solution: Duration: 2.55 Moment tensor: Scale 10^17Nm; Mr:0.72; Mw:1.60; Mw0.88; Mw-0.03; Mw:1.70; Mw-0.65;

Fault plane solution: M2.255000°10^17 NP1: 0.254, 22000°, 669.15000°, λ:14.47000° NP2: 0.168, 97000°, 676.44000°, λ:158.53000°. Principal axes: T 2.0154, Plg25.0000°, Azm115.0000°; N 0.4695, Plg65.0000°, Azm308.0000°; P -2.4848, Plg5.0000°, Azm208.0000°;

NEIC 10 16:59:18.6, 57'S, 131°88E, h50km, GCMT 10 16:59:19.5±0.1, 6°60'S, 0°01'131°89E, 0.01, h59km, 1km, MW5.5/133, Moment Tensor Solution: s112.c198; s133.c231; Duration: 1.94 Moment tensor: Scale 10^17 Nm; Mr:0.49; Mw:1.73; Mw-0.03; Mw:1.24; Mw-0.03;

Mw-0.01; Mw:1.87; Mw-0.93; Mw:0.93; Best double couple: M2.59400°10^17 NP1: 0.253, 00000°, 668.00000°, λ:11.00000° NP2: 0.158, 00000°, 678.00000°, λ:158.00000°. Principal axes: T 2.5020, Plg23.0000°, Azm110.0000°; N 0.1820, Plg66.0000°, Azm314.0000°; P -2.6850, Plg7.0000°, Azm207.0000°; nst1 refers to body waves, cutoff=40s, nst2 refers to surface waves, cutoff=50s.

Triangular moment-rate function

ISC 10 16:59:17.2±0.3, 6.61S, 0.03°131°92E, 0.04, h57km, 2km, h57km, pp-P, n84, s1949/827, mb5.2/197, MS4.7/44, 17C-8D, Tanimbar Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, BNDI Bandanaira, KNDI Kaimana, etc.

IDC 10 16:59:17.2±0.3, 6.61S, 0.03°131°92E, 0.04, h57km, 2km, h57km, pp-P, n84, s1949/827, mb5.2/197, MS4.7/44, 17C-8D, Tanimbar Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, BNDI Bandanaira, KNDI Kaimana, etc.

IDC 10 16:59:17.2±0.3, 6.61S, 0.03°131°92E, 0.04, h57km, 2km, h57km, pp-P, n84, s1949/827, mb5.2/197, MS4.7/44, 17C-8D, Tanimbar Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, BNDI Bandanaira, KNDI Kaimana, etc.

IDC 10 16:59:17.2±0.3, 6.61S, 0.03°131°92E, 0.04, h57km, 2km, h57km, pp-P, n84, s1949/827, mb5.2/197, MS4.7/44, 17C-8D, Tanimbar Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, BNDI Bandanaira, KNDI Kaimana, etc.

IDC 10 16:59:17.2±0.3, 6.61S, 0.03°131°92E, 0.04, h57km, 2km, h57km, pp-P, n84, s1949/827, mb5.2/197, MS4.7/44, 17C-8D, Tanimbar Islands region



Table of station data for 543, including call signs like PMG, KULM, and AS31, frequencies, and signal quality indicators.

Table of station data for 2019 JUN, including call signs like TOO, KULM, and MOO, frequencies, and signal quality indicators.

Table of station data for 10d 16h, including call signs like KSRS, PZH, and TIA, frequencies, and signal quality indicators.

10d 16h

2019 JUN

Table with columns for station code, name, frequency, and various signal quality metrics (e.g., S/N, SNR, error rates).

Table with columns for station code, name, frequency, and various signal quality metrics (e.g., S/N, SNR, error rates).

Table with columns for station code, name, frequency, and various signal quality metrics (e.g., S/N, SNR, error rates).



10d 17h

Table with columns: Station ID, Name, Time, Res, ISC, and various codes. Includes stations like J26L Joseph Creek, BMAR Burnt Mountain, MESA MESA, etc.

2019 JUN

Table with columns: Station ID, Name, Time, Res, ISC, and various codes. Includes stations like G30M tAoh Zrai Nji, N31M Braeburn, KLMR Klumovskoe, etc.

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Table with columns: Station ID, Name, Time, Res, ISC, and various codes. Includes stations like WATA Walderalm, PDAR Pinedale Array, SQTA Sankt Quirin, etc.

DNK 10 17:13:52.4±4.8, 71°19'N; 11°38'W, h30km, ML1.5
BER 10 17:13:54.2±4.2, 71°40'N; 11°03'W, h10km, ML2.3, Mw3.6,
ML1.5(DNK), Confirmed Earthquake
ISC 10 17:13:51.7±2.1, 71°6'N; 10°18'W; 0.08h, h16km±20km,
n16, e276/27, Jan Mayen Island region

Table with columns: Code, Station Name, Time, Res, ISC, and various codes. Includes stations like JMI Jan Mayen, JNW Jan Mayen West, JMC Jan Mayen, etc.







Table with columns for station ID, name, elevation, coordinates, and other details. Includes stations like Ungalak Mouta, Everest, Pilot Point, Arctic Creek, Wolf Creek Mou, etc.

Table with columns for station ID, name, elevation, coordinates, and other details. Includes stations like Tukpahleark C, Big River Lodg, GCSEA Galena City Sc, Tasmania Univ, etc.

Table with columns for station ID, name, elevation, coordinates, and other details. Includes stations like Killik River, Knieflebad R, Montague Islan, Sawmill, etc.

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like PAX Paxson, HAARP HAARP, C23K Iklikik, etc.

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like I27K Kandik River, C27K Jago River, BCPCM Bancas Point, etc.

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like FARO Faro, Yukon, FARO Faro, Yukon, BRLS Borolay, etc.



Table with columns for station name, coordinates, and various parameters. Includes stations like Santa Rosalia, Guromayac-BITLI, 4UR Ranch, etc.

Table with columns for station name, coordinates, and various parameters. Includes stations like VAND, VHRN, ECSD, SKAR, etc.

Table with columns for station name, coordinates, and various parameters. Includes stations like PVIS, MTE, COI, PCAS, etc.

Station information for IDC 10:17:50.6, 0.43, 57N; 146:71E, h0km, mb4.5/25, mbtmp4.5/28, ML3.3/2, MS4.3/4, Error ellipse: s-maj=16.2km, s-min=13.5km, az=116.0

Station information for MOS 10:17:18.53, 0.49, 43.31N; 146:92E, h44km, mb5.0/20, Error ellipse: s-maj=7.4km, s-min=6.1km, az=115.6

Station information for MOS 10:17:18.56, 0.2, 43.31N; 146:92E, h44km, mb5.1/5, mb4.8/24, Ms4.7/8, Ms7.4/5/8

Station information for SKHL 10:17:18.55, 0.4, 43:40N; 146:90E, h49km, mb5.7/7, mbv5.2/3, Ms4.2/3

Station information for NIED 10:17:18.56, 0.43, 43:43N; 146:66E, h45km, MW4.8, Moment Tensor Solution. s3 Moment tensor. Scale 10^16Nm; Mrr=-1.28; Mtheta=0.67; Mphi=0.62; Mtheta=0.64; Mphi=0.84;

Station information for JMA 10:17:18.56, 0.2, 43:40N; 146:71E, h45km, 2km, JMA Fell II at E Off HOKKAIDO

Station information for NEIC 10:17:18.59, 3.1, 43:55N; 10:146:6E; 0.1, h63km, 6km, mb4.9/64, Error ellipse: s-maj=16.0km, s-min=12.4km, az=127.0

Station information for ISC 10:17:18.55-8.0, 4.43, 49N; 10:146:72E; 0.04, h40km, 1km, h40km; PP-P, n326, e1946323, mb4.8/98, MS4.6/4, 30C-18D, Kuril Islands

Table with columns for Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SHO Shikotan, NEM Nemuro, etc.

Table with columns: Station, Name, Frequency, Band, and other technical details. Includes stations like KJHK, KJHN, KJHU, etc.

Table with columns: Station, Name, Frequency, Band, and other technical details. Includes stations like PET, KSR, JNU, etc.

Table with columns: Station, Name, Frequency, Band, and other technical details. Includes stations like DZA, BRLS, WRA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like VRAC Vranov, ANTO Anarka, SCHG Schefferville, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like H03N2 Juan Fernandez, BELA Belgrano 2, AC05 El Transito, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like JYTA, MDOK Medeo, AAK Ala-Archa, etc.





Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like PRGZ Paritu Road, MTHZ Maungataniwha, NMHZ Mahia Peninsula, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, AB31 Akbulak array, FINES FINES Array B, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like REDR comp=E,85nm,0.1s, SDDR Presa de Saban, etc.

NEIC 10 19:07:4.2, 7.35:00N+0.09:135.7E:0.1, h366km±10km, mb4.2/6, Error ellipse: s-maj=15.5km s-min=11.6km az=124.0

IDC 10 19:45:28.4, 1.9, 2:86N, 126:43E, h0km, mb3.4/4, mbmp3.4/4, Error ellipse: s-maj=183.1km s-min=22.3km az=66.0

IDC 10 19:47:46.9, 0.2, 22:05:01x175.2W:0.2, h33km, n18, c0576/15, mb4.1/8, 3C, Tonga Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Wachi, Kouya, Yamagatani, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SANGI, TMTI, TMTI, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RAR Rarotonga, URZ Urewera, PPT Papeete, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like JSZ Suzu, JRY Ryogami san, JOD Odawara 2, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MASc Masc, MASc Masc, MASc Masc, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SJA 10 20:20:39.8, 0.6, 24:29S:67:02W, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like JOW Kuniyama, ASAJ Asahikawa, JKA Kamikawa-asahi, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MASc Masc, MASc Masc, MASc Masc, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SALTA San Lorenzo, SLA San Lorenzo, SLA San Lorenzo, etc.











Table with columns: Station Name, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like Alice Springs, Alice Springs, Alice Springs, Forrest, Makanchi Array, Makanchi Array, Makanchi Array, etc.

IDC 10 23:08:34.9, 2.3, 6.54S, 129.62E, h0km, mb3.3/1, mbmp3.7/4, ML4.0/3, Error ellipse: s-maj=80.5km g-min=29.9km az=76.0, Banda Sea

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like FITZ, FITZ, WRA, WRA, ASAR, ASAR, MKAR, MKAR, etc.

BER 10 23:10:09.7, 3.2, 71.50N, 4.04W, h10km, Mw3.8, ML1.30(NK), Confirmed Earthquake

DNK 10 23:10:10.6, 3.5, 71.48N, 4.30W, h30km, 92km, ML1.3, ISC 10 23:10:07.1, 0.9, 71.64N, 4.07, 4.16W, 0.06, h12km, n35, e132/40, Jan Mayen Island region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JNE, JNE, JNW, JNW, JMW, JMW, JMC, JMC, JMI, JMI, etc.

Table with columns: Station Name, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TRO, BRBA, BRBB, FAUS, FAUS, FAUS, etc.

HEL 10 23:27:40.7, 0.6, 67.84N, 20.16E, h0km, ML0.9, Suspected explosion, Sweden

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LANU, LANU, KIF, KIF, KIF, etc.

KRNET 10 23:39:52.2, 0.1, 43.04N, 70.26E, h21km, mb3.3, SOME 10 23:39:52.7, 42.87N, 70.22E, h5km, NNC 10 23:39:53.6, 0.8, 43.02N, 70.33E, h2km, mb3.8, mpv3.5, Error ellipse: s-maj=6.7km s-min=4.3km az=157.0

ISC 10 23:39:53.2, 0.9, 43.00N, 0.03, 70.29E, 0.02, h9km, 6km, n66, e138/18, 51C-26D, Central Kazakhstan

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KK07, KK08, KK09, KK09, KK09, etc.

GCG 11 00:08:16.3, 4.5, 15.57N, 94.80W, h5km, 62km, MD4.5, ML3.6

MEX 11 00:08:21.6, 0.7, 15.41N, 94.76W, h17km, 9km, MD4.2, ISC 11 00:08:13.3, 1.3, 15.26N, 0.04, 94.70W, 0.02, h14km, 10km, n42, e234/74, Near coast of Oaxaca

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like DZA, DZA, DZA, DZA, DZA, etc.

Table with columns: Station Name, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SGDS, UCH, UCH, UCH, UCH, UCH, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like Sontecomapan, El Palmer, Qui, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like BBLs Lazi, Rudo, PLE, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like G002, DAVOX, PDG, etc.

CATAC 11 00:08:50.0±0.4, 12°N, 86°W, h29km, M3.2/18, MLV3.2/18, Error ellipse: s-maj=7.0km s-min=3.1km

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like Cosiguina Volc, Potosi Cosigui, etc.

IDC 11 00:26:18.6±0.7, 7°51'S, 12°80'W, h0km, mb3.9/13, mbmp3.9/14, ML3.6/1, MS3.6/39, Error ellipse: s-maj=31.3km s-min=17.5km az=106.0

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like ARSA, ARSA, ARSA, etc.

NEIC 11 00:26:20.7±1.6, 7°35'0.1, 13°02'W±0.09, h10km, 1km, mb4.8/27, Error ellipse: s-maj=20.6km s-min=13.6km az=156.0

ISC 11 00:26:19.7±0.5, 7°37'S, 09°12'99"W±0.08, h10km, m81, c1902/43, mb4.5/27, MS3.6/38, 4C-1D, Ascension Island region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like ASCN, H10N1, H10N2, etc.

IDC 11 00:33:24.0±0.5, 43°39'N, 17°33'E, h3km±9km, ML2.0/7, PDG 11 00:13:23.5±0.1, 43°30'N, 17°21'E, h0km±11km, ML2.7/10, Error ellipse: s-maj=0.3km s-min=0.7km az=0.0

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like ASAR, ASAR, WRA, etc.

RHSSO 11 00:13:24.0±0.2, 43°39'N, 17°29'E, h4km±1km, ML2.3/13, VIE 11 00:13:26.3±1.1, 44°11'N, 17°54'E, h8km, mb2.3/6, ml2.0/6, Error ellipse: s-maj=14.4km s-min=8.1km az=51.0 77 km WNW of Sarajevo

ISC 11 00:13:23.1±1.1, 43°31'N, 02°17'32'E±0.02, h1km±10km, n56, c0995/104, 10C-8D, Northwestern Balkan Peninsula

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like RIC, MAK, MAK, etc.

IDC 11 00:33:15.5±3.7, 19°48'S, 176°04'W, h0km, mb3.9/2, mbmp3.9/2, Error ellipse: s-maj=53.6km az=151.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like ASAR, ASAR, WRA, etc.

IDC 11 00:42:10.6±0.6, 11°N, 8°W, h24km±6km, M3.3/20, MLV3.3/20, Error ellipse: s-maj=7.6km s-min=3.7km az=30.8, confirmed, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res. Includes stations like SAPS, SABS, NANN, etc.

Table with 4 columns: Station Name, Phase, ID, Res. Includes stations like RCVN Varilla2, PACA Pacayal, TGUH Tegucigalpa,Un.

IDC 11 01:03:44.9.0.55:39S:29.46W, h0km, mb4.1/6, mbmp4.1/7, ML4.2/1, MS3.4/10, Error ellipse: s-maj=36.8km s-min=18.9km az=58.0

NEIC 11 01:03:46.4.1.9.55:4S:01:29.7W:0.2, h10km, jkm, mb4.6/32, Error ellipse: s-maj=21.0km s-min=14.5km az=200.0

ISC 11 01:03:46.5.0.55:43S:01:29.84W, h10km, n67, r193/56, mb4.6/20, MS3.5/9, SC, South Sandwich Islands region

Main station list table with columns: Code, Station Name, A°, AZ°, Phase, ID, Time, Res. Includes stations like HOPE Hope Point, VNA1 Neumayer-Stat, VNA2 Neumayer-Watz, SNA1 Sanae, TROLL Troll, Antarti, BELA Belgrano 2, MG02 Cerro Sombrero, etc.

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MOS 11 01:21:16.0.1.0.38:51N:141:73E, h57km, mb4.8/29, Error ellipse: s-maj=8.0km s-min=4.9km az=91.4

NIED 11 01:21:18.1.38:42N:141:65E, h59km, MW4.5, Moment Tensor Solution. s3 Moment tensor: Scale 10^15Nm

ISC 11 01:21:17.8.0.5.38:45N:0:04:141.80E:0:04, h60km, j3km, n61km:pp-P, n58r, r148/546, mb4.5/160, 10C-14D, Near east coast of eastern Honshu

Main station list table with columns: Code, Station Name, A°, AZ°, Phase, ID, Time, Res. Includes stations like JIKH Ishinomakikobu, JIKH Ishinomakikobu, JIO Ouri, JKM Kesenuumatomot, JOFU Ofunato, etc.

Main station list table with columns: Station Name, Time, Res. Includes stations like SHO Kuril'sk, KUR Kuril'sk, KUR Kuril'sk, KUR Kuril'sk, etc.

11d 1h

2019 JUN

Table with columns: Station Name, Frequency, Power, Direction, and Date/Time. Includes stations like TIXI, DAV, PZH, PZH, PZH, SPIA, P08K, NIKH, TNA, TNA, TNA, FALS, K13K, F14K, ANM, M13K, J14K, S12K, L14K, F15K, F15K, G15K, M14K, N14K, ZAAO, ZAAO, ZALV, ZALV, ZALV, O14K, C16K, C16K, K15K, SDPT, G16K, M15K, D17K, N15K, N15K, N15K, O15K, O15K, J16K, I17K, S14K, CHNA, C17K, CMAR, E17K, F17K, L16K, G17K, M16K, M16K, H17K, N16K, N16K, J17K, J17K, J17K, E18K, E18K, B18K, C18K, C18K, C18K, O16K, P16K, L17K, F18K, K17K, K17K, G18K, G18K, G18K, H18K, H18K, A19K, M17K, N17K, O17K, C19K, C19K, MK31, MKAR, MKAR, MKAR, MKAR, MKAR.

Table with columns: Station Name, Frequency, Power, Direction, and Date/Time. Includes stations like L18K, L18K, P17K, F19K, J18K, MAKZ, MAKZ, D19K, D19K, D19K, D19K, N18K, N18K, E19K, E19K, E19K, M18K, H19K, H19K, H19K, J19K, P18K, O18K, D20K, D20K, B20K, B20K, L19K, F20K, F20K, N19K, H20K, M19K, K20K, J20K, A21K, L20K, C21K, KURK, KURK, KURB, P19K, M20K, G21K, G21K, E21K, E21K, E21K, F21K, A22K, H21K, H21K, PPLA, KDAK, KDAK, N20K, SPCR, Q20K, CAST, CAST, B22K, B22K, B22K, D22K, D22K, F22K, SKT, E22K, E22K, G22K, G22K, BPAW, MLY, SUA, SUA, SUA, D23K, D23K, D23K, C23K, C23K, G23K, H23K, E23K, E23K, RC01, TOLK.

Table with columns: Station Name, Frequency, Power, Direction, and Date/Time. Includes stations like TOLK, TOLK, I23K, NEA2, NEA2, SEW, MCK, PMR, D24K, D24K, GHO, C24K, C24K, E24K, E24K, E24K, WAT1, KNK, F24K, F24K, SML, SML, H24K, H24K, G24K, POKR, POKR, WAT6, M23K, DHY, TARG, TARG, TARG, HDA, HDA, IL31, IL31, ILAR, SCM, D25K, D25K, P23K, GLI, G25K, F25K, F25K, F25K, E25K, E25K, E25K, M24K, PRP, K24K, KLU, Q23K, BMAR, EYAK, F26K, F26K, HARP, C27K, C27K, C27K, G26K, G26K, SCRK, SCRK, SCRK, N25K, BMRM, J26L, I26K, KAIM, L26K, L26K, BVAR, BVAR, BVAR, BRVK, BRVK, BRVK, E27K, E27K, E27K, AAK, AAK, AAK, M26K, KSH, KSH.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Doyon Strip, Malcolin River, McCarthy VSAT, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like Paulutak, Paulutak, Nakina River, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like EGMT Eagleton, DLMT Dillon, NORES NORES, etc.

Table with columns: STK, ANMO, ABTA, SCHO, MOTA, RETA, DAVA, FUORN, PPT2, PPKT, DNKS, TXAR, SADO, CCM, MIAR, KEST, ESDC, GSPA, SNA, etc. Each row contains station name, coordinates, and various parameters.

Table with columns: STK, ANMO, ABTA, SCHO, MOTA, RETA, DAVA, FUORN, PPT2, PPKT, DNKS, TXAR, SADO, CCM, MIAR, KEST, ESDC, GSPA, SNA, etc. Each row contains station name, coordinates, and various parameters.

Table with columns: STK, ANMO, ABTA, SCHO, MOTA, RETA, DAVA, FUORN, PPT2, PPKT, DNKS, TXAR, SADO, CCM, MIAR, KEST, ESDC, GSPA, SNA, etc. Each row contains station name, coordinates, and various parameters.

KRNET 11 01:31:50.70:1.39:31N:72:52E, h16km, mb3.5
SOME 11 01:31:57.2:39:68N:72:23E, h10km
NNC 11 01:31:58.8:3.2:39:62N:72:41E, h0km, mb3.7, mpv3.4,

NEIC 11 01:48:24.0:2.4:23:42N:0:04:127:4W:0:2, h10km, 2km,
ML2.7:62 Error ellipse: s-maj=21.4km s-min=3.7km
az=252.0, Off coast of Oregon

NEIC 11 01:48:24.0:2.4:23:42N:0:04:127:4W:0:2, h10km, 2km,
ML2.7:62 Error ellipse: s-maj=21.4km s-min=3.7km
az=252.0, Off coast of Oregon

Error ellipse: s-maj=25.1km s-min=14.1km az=170.0
ISC 11 01:31:53.2:1.0:39:47N:0:05:72:47E, h0km, n44,

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, etc. Lists stations like KARAMYK, SUFI-KURGAN, OSH, BATKEN, GARM, SALOM-ALIK, ARSLANBOK, TEREK-SAY, ARKIT, ARAL, ALMAYASHU, MANAS, UCHTOR, MERKE, MRKS, NRN, EKSS, AAK, AAK, KBK, FRU1, KK31, KKAR, CHM5, BRLS, USP, TKM2, SGDS, KST, KST, KST, DGS, IZV, IZV, MDOK, MDOK, KOTS, KOTS, KOTS, KUW, KUW.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, etc. Lists stations like EDSON BUTTE, MYRLE POINT, BOSLEY BUTTE, SWISSHOME, WILLIAMS MERE, CAMP BROAD DRAIN, CORVALLIS, HEBO, BUCK, BUTLER BUTTE, MCMINNVILLE, LEBANON, TENDICK FARM, UMPQUA NATIONA, DETROIT LAKE, MILILNO, CHILOQUIN, LEBAN, MOUNT HOOD MEA, MITCHELL, FLAT TOP 2, CUK ROCK, PINE MOUNTAIN, SEPTEMBER LOBE, STUDBAKER RID, COLDWATER, WAMIC, CARLSON FARM, GREEN MOUNTAIN, PANHANDLE GAP, ENUMCLAW, PORT ANGELES, HAYSTACK LOOKO, BELLA BELLA, LORCA, MURCIA, LORCA, NIJAR, NIJAR, ZARZADILLA DE, MAZARRON, ALHAMA MURCIA, BULLAS, MURCIA, CARTAGENA, CARTAGENA.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, etc. Lists stations like TORRE PACHECO, QUESADA, PILAR DE LA HO, GUANTAR, PRESA DE QUENT, LOS MONTESINOS, JIMENA (JAEN), UBEDA, JAEN, GRANADA, SIERRA GORDA, SIERRA GORDA, BENIARDA PRESA, GRANATULA DE C, ADAMUZ, ADAMUZ, ADAMUZ, MONT GURUGU, CHERA, CHERA, MIJAS, MIJAS, TAFORALT, PALEMAS, SONSECA ARRAY, SONSECA ARRAY, SONSECA ARRAY, EI CABRIL, EI CABRIL, EI CABRIL, EI CABRIL, SAN PABLO, SAN PABLO, SAN PABLO, JIMENA FRONTER, UNIVERSIDAD CO, IBIZA, IBIZA, ESPERA, CELADAS (TERUE), TORETE, MOSQUERULA, AKL, ISLAS COLUMBRE, TORRE, TORRE, GUADARRAMA, GUADARRAMA, GUADARRAMA, MINA CONCEPCION, MINA CONCEPCION, HORTA DE SAN J, BARRANCOS, BARRANCOS, BARRANCOS, PLASENCIA, PLASENCIA, BADAJOS, BADAJOS, EL GRANADO, EL GRANADO, MALLORCA, MALLORCA, SAN CAPRASIO, VAQUEIROS, VAQUEIROS.

INMG 11 01:52:16.2:1.6:37:31N:1:96W, h15km, 2km, ML3.0, Error ellipse: s-maj=2.7km s-min=1.4km az=148.0, #DIST\_RANGE: REGIONAL #PMA\_REGION: SW Lorca (ESP)
ISC 11 01:52:14.4:1.0:37:36N:0:02:1:99W:0:02, h9km, 9km, n111, 1:1540/237, 5C-1D, Spain



Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PVAO, IFRane, EPOB, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LALI, PGAV, EPOB, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MAJO, Matsuhiro, MAJ9, etc.

Table with columns: ID, Name, Date, Time, Status, and other details. Includes entries like TNA Tin City, K13K Kusilvak Mount, F14K Arctic Creek, etc.

Table with columns: ID, Name, Date, Time, Status, and other details. Includes entries like O17K Koliganek Bris, C19K Lookout Ridge, C19K Arctic Creek, etc.

Table with columns: ID, Name, Date, Time, Status, and other details. Includes entries like BOOM Booms koye usch, CNPM China Pot, BPAW Bear Paw Mtn, etc.

Table with columns for station ID, name, location, and various numerical values representing data points for stations like M24K, PRP, ARSB, etc.

Table with columns for station ID, name, location, and various numerical values representing data points for stations like G30M, G30M, G30M, etc.

Table with columns for station ID, name, location, and various numerical values representing data points for stations like KIV, VSU, PINE, etc.

Table with columns: DUG, comp, Iamb, Iamb, 02 11 05.5, 02 11 03.4 0.0, etc. Lists various stations and their parameters.

Table with columns: S22A, 4UR Ranch, Cre, 84.06 47 P, P, 02 11 30.5 -0.3, etc. Lists stations like F33A, X16A, X16A, etc.

Table with columns: az=115.0, NEIC 11 02:38:31.3, 1.5, 58.776N, 0.04:154.77W:0.07, etc. Lists stations like KAHC, KAHC, KAHC, etc.

Table with columns: IDC 11 02:38:16.5:20.0, 17.49S:172.04W, h0km, mb4.3/5, etc. Lists stations like URZ, URZ, URZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Tigyakuivert M, VNHG Veniaminof 1, SKT Skwentna, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MESA MESA, H20K Antoleneaga Mo, HDA Harding Lake, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like FINES FINES Array B, HFS Hagsfords, IDC 11 03:18:29.9, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like FG16, FG8, PACA, LCY, BLM, ESSG, etc.

NEIC 11 04:28:45.3r, 1.8, 24.2S:0.1, 179.3W:0.2, h471km, 77m, mb4.5/25, Error ellipse: s-maj=24.1km s-min=15.7km az=92.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GLKZ, MSVF, DSVI, etc.

Table with columns: BRTR, Keskin Array B, 148.20 307, PKPbc, PKPbc, 04 47 36.9 +0.2

IDC 11 05:00:53.6r, 0.7, 18.780S:70.22W, h59km, 5km, mb3.9/12, mbmp4.2/16, MS3.2/8, Error ellipse: s-maj=20.0km s-min=13.1km az=70.0

GUC 11 05:00:53.9, 0.8, 18.92S:70.33W, h49km, 5km, ML4.6 NEIC 11 05:00:53.4, 1.8, 88S:70.40W, h61km

CATAC 11 03:30:23.4, 0.6, 11.1N:2.8W, h19km, 4km, M2.9/14, ML2.9/14, Error ellipse: s-maj=6.1km s-min=3.0km az=56.8, Off coast of Costa Rica

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CARN, JAPAN, MORN, etc.

IDC 11 05:00:52.8, 0.5, 18.85S:70.43W, h61km, 4km, n151.0, s152/130, mb4.6/36, 4C-4D, Near coast of northern Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DZM, MXZ, HAZ, etc.

IDC 11 05:00:52.8, 0.5, 18.85S:70.43W, h61km, 4km, n151.0, s152/130, mb4.6/36, 4C-4D, Near coast of northern Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AP01, PB16, PB11, etc.

KOLA 11 04:17:23.5, 67.62N:33.87E, h0km, ML1.4, Error ellipse: s-maj=1.9km s-min=1.0km az=150.0, Khibiny, mines Rasvumchorr, Central

HEL 11 04:17:23.0, 5.6, 68.16N:33.73E, h0km, ML1.2, Explosion, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LVZ, APA, APA0, etc.

HEL 11 04:18:42.5, 0.4, 67.82N:20.16E, h0km, ML1.4, Suspected explosion

UPP 11 04:18:42.5, 0.0, 67.85N:20.25E, h0km, ML2.3, Confirmed induced event, Sweden

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AS31, ASAR, ASAR, etc.

HEL 11 04:18:42.5, 0.4, 67.82N:20.16E, h0km, ML1.4, Suspected explosion

UPP 11 04:18:42.5, 0.0, 67.85N:20.25E, h0km, ML2.3, Confirmed induced event, Sweden

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BBOO, AS31, ASAR, etc.

HEL 11 04:18:42.5, 0.4, 67.82N:20.16E, h0km, ML1.4, Suspected explosion

UPP 11 04:18:42.5, 0.0, 67.85N:20.25E, h0km, ML2.3, Confirmed induced event, Sweden

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KUA, RATU, KUVU, etc.

HEL 11 04:18:42.5, 0.4, 67.82N:20.16E, h0km, ML1.4, Suspected explosion

UPP 11 04:18:42.5, 0.0, 67.85N:20.25E, h0km, ML2.3, Confirmed induced event, Sweden

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WRR, WRRB, WBO, etc.

HEL 11 04:18:42.5, 0.4, 67.82N:20.16E, h0km, ML1.4, Suspected explosion

UPP 11 04:18:42.5, 0.0, 67.85N:20.25E, h0km, ML2.3, Confirmed induced event, Sweden

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AOOD, AOOD, ATAH, etc.



Table with columns: BOAV, SMTB, RUSC, RUSC, BOA Vista, Santa Maria do, La Rusia, etc. Includes various astronomical data points and codes.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc. Includes astronomical data for various stations like KBTR, KBTB, KBTB, etc.

Table with columns: KLR, KLR, D19K, E19K, E19K, D20K, D20K, etc. Includes astronomical data for various stations like KLR, D19K, E19K, etc.

IDC 11 05:13:15.0-0.9, 56:49N-164:20E, h0km, mb3.7/14, mbmp3.8/16, ML3.4/2, MS3.3/29, Error ellipse: s-maj=27.0km s-min=14.3km az=158.0 KASC 11 05:13:16.0-1.6, 56:09N-164:36E, h23km, mb2.2km, M1.4

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes entries for KURBB, MKAR, and IDC.

IDC 11 05:28:57.3:1.8, 30:33Sx118:13E, h0km, mb3.5/1, mbtmp3.5/5, ML3.5/3, Error ellipse: s-maj=54.6km s-min=28.2km az=122.0

AUST 11 05:28:59.0:3.0, 30:52N x 118:08E, h10km, mb4.9/2, ML3.2/5, Error ellipse: s-maj=5.2km s-min=4.4km az=80.9

NOU 11 05:28:59.6, 30:41S: 117:72E, h0km, MLV3.8/12, Western Australia

ISC 11 05:28:58.7:0.8, 30:38S:0:03:117:81E:0:04, h10km, n33, r154/35, Western Australia

Main table section for the first column, listing various station codes and their associated data.

IDC 11 05:39:47.3:1.2, 1:51S: 120:80E, h0km, mb3.6/5, mbtmp3.7/5, Error ellipse: s-maj=108.6km s-min=20.3km az=58.0

DJA 11 05:39:48.9:0.2:2:5:1:12:1E:1, h10km, M4.2/12, mb4.5/3, ML4.4/12

ISC 11 05:39:47.6:0.7, 1:88S:0:04:120:54E:0:05, h10km, n15, r161/21, mb3.8/5, Sulawesi

Main table section for the first column, continuing with station codes and data.

IDC 11 05:45:52.0:0.5, 2:37N: 116:78E, h0km, mb4.4/16, mbtmp4.4/17, ML4.4/1, MS3.5/11, Error ellipse: s-maj=38.9km s-min=11.5km az=62.0

NEIC 11 05:45:55.0:1.6, 2:46N:0:06:116:95E:0:04, h10km, 1km, mb4.7/40, Error ellipse: s-maj=11.5km s-min=5.2km az=211.0

DJA 11 05:45:56.3:0.5, 3:2N:2:11:7E:1, h19km, M4.9/25, mb4.8/25, mb5.5/7, ML4.4/8/14, Mw(MB)5.0/7

ISC 11 05:45:54.7:0.4, 2:48N:0:05:117:04E:0:07, h10km, n108, r130/91, mb4.7/42, MSZ.6/7, ID, Borneo

Main table section for the first column, continuing with station codes and data.

Main table section for the second column, listing station codes and data.

IDC 11 05:46:42.0:0.9, 5:33N:88:11E, h0km, M2.8, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2011

IDC 11 05:46:45.2:3.3, 5:35N:87:34E, h0km, mbtmp2.6/2, ML1.8/1, Error ellipse: s-maj=28.0km s-min=17.2km az=58.0, Southwestern Siberia

Main table section for the second column, continuing with station codes and data.

Main table section for the third column, listing station codes and data.

ASRS 11 05:46:42.0:0.9, 5:33N:88:11E, h0km, M2.8, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2011

IDC 11 05:46:45.2:3.3, 5:35N:87:34E, h0km, mbtmp2.6/2, ML1.8/1, Error ellipse: s-maj=28.0km s-min=17.2km az=58.0, Southwestern Siberia

Main table section for the third column, continuing with station codes and data.

IDC 11 05:48:54.5:58.0, 14:55S:168:26E, h0km, mb3.9/3, mbtmp3.9/3, Error ellipse: s-maj=980.9km s-min=119.9km az=67.0, Vanuatu Islands

Main table section for the third column, continuing with station codes and data.

IDC 11 05:55:19.6:0.3, 2:28N:178:38W, h209km, 3km, mb4.1/17, mbtmp4.7/19, Error ellipse: s-maj=13.0km s-min=10.9km az=89.0

NEIC 11 05:55:21.1:1.7, 2:89S:0:1:178:4W:0:1, h214km, 5km, mb4.7/43, Error ellipse: s-maj=19.0km s-min=11.4km

ISC 11 05:55:22.0:0.3, 2:29S:178:38W, h209km, 3km, mb4.1/17, mbtmp4.7/19, Error ellipse: s-maj=13.0km s-min=10.9km az=89.0

ISC 11 05:55:22.0:0.3, 2:29S:178:38W, h209km, 3km, mb4.1/17, mbtmp4.7/19, Error ellipse: s-maj=13.0km s-min=10.9km az=89.0

Main table section for the third column, continuing with station codes and data.

Table with columns: Name, Time, Res, P, S, and various numerical values. Includes stations like KHZE, WAZ, BFZ, MRZ, etc.

Table with columns: Name, Time, Res, P, S, and various numerical values. Includes stations like NVAR, Y14A, C16A, etc.

Table with columns: Name, Time, Res, P, S, and various numerical values. Includes stations like SMDR, IDE, IDE, etc.

ASRS 11 06:08:22.0:0.4, 54.12N:86.44E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

ASRS 11 06:09:16.0:0.4, 54.42N:86.74E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

ISN 11 06:11:26.4:0.4, 34.92N:45.83E, h14km, 5km, ML2.6
TEH 11 06:11:26.8: 34.91N:45.84E, h10km, 97km
ISC 11 06:11:27.1: 1.3, 34.89N:0.05:45.84E:0.03, h13km, 14km, n11, o564/16, Iran-Iraq border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like GKS1, KGS1, IDHR, etc.

ASRS 11 06:16:51.0:0.4, 53.65N:91.07E, h0km, M3.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

NCC 11 06:17:00.4:2.9, 53.51N:90.58E, h0km, mb3.7, mpv3.4, Error ellipse: s-maj=22.3km s-min=16.0km az=60.0, Suspected Mining explosion
IDC 11 06:17:01.3: 3.1, 53.43N:90.48E, h0km, mbmp3.3/3, ML2.8/3, Error ellipse: s-maj=26.7km s-min=22.0km az=60.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like I46RU, ZAAO, ZAAO, ZALV, etc.

SJA 11 06:38:02.3: 1.9, 32.29S:73.02W, h19km, 84km, ML3.9, MW3.8

IDC 11 06:38:07.9: 1.4, 32.04S:72.43W, h0km, mb3.8/3, mbmp3.6/7, ML3.6/4, MS3.0/2, Error ellipse: s-maj=36.8km s-min=25.8km az=107.0

GUC 11 06:38:11.3: 0.9, 32.11S:72.18W, h29km, 4km, ML3.5
ISC 11 06:38:11.4: 1.1, 32.14S:72.00W, h24km, 7km, n58, o193/69, 6C-1D, Off coast of central Chile

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like VA06, VA06, VA01, etc.

Main table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like MT16, MT16, MT09, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like MSPR, MSPR, ZFRI, etc.

MOS 11 07:00:01.8: 0.9, 21.31S:174.29W, h10km, mb5.2/27, MS4.6/8, Error ellipse: s-maj=10.8km s-min=9.8km az=80.3

BUI 11 07:00:01.0: 20.76S:173.52W, h7km, mb5.5/14, mb5.3/37, MS4.9/8, MS7.4/7.9

NEIC 11 07:00:01.8: 2.1, 21.23S:0.05:173.84W:0.07, h10km, 1km, mb5.2/281, Error ellipse: s-maj=12.4km s-min=6.6km az=236.0

IDC 11 07:00:01.3: 0.4, 21.26S:174.24W, h0km, mb4.8/19, mbmp4.8/22, ML4.8/3, MS4.2/37, Error ellipse: s-maj=13.9km s-min=13.9km az=113.0

GCMT 11 07:00:05.8: 0.3, 21.47S:0.02:173.68W:0.02, h20km, MV5.0/95, Moment Tensor Solution, s39,c47; s95,c114; Duration: 0 Moment tensor: Scale 10^16Nm; Mr3.29; 15; Mw-1.47; 10; Mw-1.82; 10; Mw-1.1e.20; Mw-0.95; 10; Mw-1.03; 17; Best double couple: M3.42200: 10^16 Nm; N1: 215.00000; 830.00000; 1.8100000; N1P2: 0.46.00000; 860.00000; 1.95.00000; Principal axes: T 3.7800, P1g7.4.0000, Azm330.0000; N -1.7150, P1g4.0000, Azm224.0000; P -3.0650, P1g15.0000; Azm133.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

NOU 11 07:00:05.2: 2.1, 23S:173.51W, h62km, mb5.1/12, Tonga Islands

ISC 11 07:00:04.4: 0.3, 21.53S:0.04:174.00W:0.05, h25km, n783, o140/645, mb5.2/197, MS4.5/50, 30C-33C, Tonga Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like NIUE, NIUE, NIUE, etc.

SGS 11 06:58:25.1: 30.77N:34.79E, h14km, ML2.2
JSO 11 06:58:26.7: 0.3, 31.1N:2.3E, h13km, M2.5/12, M2: 91.2, Mjma2: 510.0, ML2: 2.12, MLv2: 4/12, MLv2: 4/12
Gll 11 06:58:26.5: 0.3, 30.58N:0.03:35.378E:0.009, h13km, Mws2.2/9, confirmed

ISC 11 06:58:26.3: 0.9, 30.58N:0.02:35.33E:0.03, h16km, 10km, n54, o54/61, 4C, Dead Sea region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residuals. Includes stations like EYHV, EYHV, EYHV, etc.



Table with columns: ID, Name, Az, El, P, S, M, Az, El, P, S, M. Rows include RC01 Rabbit Creek A, V35K Ketchikan, STLK Stranve Lak, etc.

Table with columns: ID, Name, Az, El, P, S, M, Az, El, P, S, M. Rows include LOGN Logan Glacier, MCARA McCarty VSAT, MCARA McCarty VSAT, etc.

Table with columns: ID, Name, Az, El, P, S, M, Az, El, P, S, M. Rows include RIDG Independent Ri, RIDG Independent Ri, R33M Jennings River, etc.



Table with columns: Station ID, Name, Time, Day, Status, and Value. Includes stations like G23K Bananza Creek, MAYO Mayo, J29N Klondike Camp, etc.

Table with columns: Station ID, Name, Time, Day, Status, and Value. Includes stations like B22K Teshekpuk Lake, C24K Franklin Bluff, G31M Satah River, etc.

Table with columns: Station ID, Name, Time, Day, Status, and Value. Includes stations like NOA NORSTAR Array B, HFS Hagfors, GNI Garni, etc.

11d 7h

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SRO Srobarova, GRES GRESS Array B, SURR Surduc, etc.

ASRS 11 07:00:17.0:1.8,53.61N:87.85E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 07:00:19.6:3.7, 53.55N:87.86E, h0km, mbtmp2.5/2, ML2.3/2, Error ellipse: s-maj=33.6km s-min=18.0km az=56.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Kurchatov Arra, etc.

ASRS 11 07:10:04.0:1.6, 54.62N:83.77E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 07:10:06.0:1.6, 54.62N:83.77E, h0km, mbtmp2.9/3, ML2.3/3, Error ellipse: s-maj=14.8km s-min=9.8km az=7.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Kurchatov Arra, etc.

NEIC 11 07:24:20.7:0.9, 37.47N:116.70W, h16km, M4.0, 116.70W:0.01, h16km, 2km, Error ellipse: s-maj=3.1km s-min=2.1km az=148.0, Moment Tensor Solution. Moment tensor: Scale 10^14 Nm; Mrr=3.37; Mtt=0.99; Mss=2.38; Mss=2.86; Mss=7.32; Mrr=0.15; Fault plane solution: M0:6.41000x10^14 Np1:81.89000x10^14, delta 22000x10^14, lambda 30.01000x10^14. Principal axes: T 9.3691, P1g9.0000, Azm134.0000; N -2.4618, P1g57.0000; Azm238.0000; P -6.9073, P1g31.0000, Azm38.0000.

REN 11 07:24:20.7:0.9, 37.47N:116.70W:0.01, h16km, 8km, ML4.1/14, ML4.0/102(NEIC), Mw3.9/114(NEIC) Error ellipse: s-maj=2.6km s-min=1.7km az=180.0

IDC 11 07:24:21.1:0.6, 37.55N:116.68W, h0km, mb3.7/4, mbtmp3.5/11, ML3.2/7, MS3.2/6, Error ellipse: s-maj=7.3km s-min=5.5km az=76.0

ISC 11 07:24:20.7:1.2, 37.50N:116.68W:0.02, h4km, 9km, n80, n093/83, mb3.7/5, Southern Nevada

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GMM Gold Mountain, SGV South Grapevine, MZP Montezuma Peak, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like TPV Tonopah, GRAC Grapevine Rang, GRAC, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PINE Pine Mountain, PDAR Pineedale Array, PDAR, etc.

Table with columns: BGU, comp, E, B, 4nm, 1.4s, 4.47 39 Pn, Pn, 07 30 26.1 -0.5, IAML, 07 31 14.2, 07 32 09.0

NEIC 11 07:31:36.2, 1.4, 36:895N, 0:008, 121.2511W, 0:009, h10km, 1km, Error ellipse: s-maj=2.9km s-min=1.4km az=276.0

NCEDC 11 07:31:36.1, 1.4, 36:891N, 0:009, 121.24W, 0:01, h8km, 7km, Mw3.1/4, ML2.9/56(NEIC), Error ellipse: s-maj=1.4km s-min=1.1km az=134.0, Central California

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: YES, Vestal, Richgr, 2.03 120 Pn, 07 32 08.5 -2.1, CRGC Crocker Grade, 2.05 143 Pn, 07 32 09.8 -1.2

Table with columns: MGNR, McGee Canyon, 2.23 65 Pn, 07 32 16.5 -0.3, GDMX Geysers, 2.27 328 Pn, 07 32 13.5 -0.1

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: WAZ, Wanganui, 9.53 209 P, P, 07 38 59.3 -2.0, VAZ Dannevirke, 9.57 202 P, S, 07 40 50.5 +0.4

Table with columns: ANVZ, Angora Road, 9.62 201 P, S, 07 39 03.2 +0.7, PRWZ Pori Road, 9.87 203 P, S, 07 40 55.2 -1.8

NNC 11 07:45:00.8, 2.1, 42:43N, 80:54E, h0km, mb3.0, mpv3.0, Error ellipse: s-maj=13.3km s-min=11.0km az=151.0

SOME 11 07:45:00.1, 42:38N, 80:65E, h25km, KRNET 11 07:45:03.9, 0.1, 41:38N, 80:19E, mb3.0

ISC 11 07:45:01.7, 2.1, 42:46N, 0:07, 80:57E, 0:08, h30km, 14km, n20, c256/3s, 9C-6D, Kyrgyzstan-Xinjiang border region

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

WEL 11 07:36:49.0, 1.4, 32:51N, 13:17W, 3.1, h400km, M3.9/18, mb4.4/13, ML5.1/11, MLV4.7/18, Mw(mb)3.6/13, Error ellipse: s-maj=41.7km s-min=12.0km az=107.0, confirmed, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

IDC 11 07:46:21.9, 2.6, 38:79N, 123:26W, h0km, mbtmp3.7/5, ML3.3/4, Error ellipse: s-maj=25.9km s-min=20.1km az=114.0

NEIC 11 07:46:25.1, 2.1, 38:82N, 0:01, 122:82W, 0:02, h5km, 4km, Error ellipse: s-maj=2.1km s-min=1.6km az=74.0

NCEDC 11 07:46:25.2, 2.2, 38:81N, 0:01, 122:82W, 0:02, h2km, 4km, Mw4.1/7, mb4.1/6(NEIC), ML3.5/91(NEIC), Error ellipse: s-maj=2.0km s-min=1.6km az=77.0

ISC 11 07:46:26.2, 0.7, 38:79N, 0:02, 122:83W, 0:02, h10km, n160, r130B/160, Northern California

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, ISC, h, m, s, ISC, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for stations like Cahto Peak, Farallon Island, Stimpson Lane, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for stations like Carvers, Mtezuma Peak, Myrtle Point, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for stations like Zalesovo Beam, Kurchatov Arra, Makanchi Array, etc.

Table with columns for station code, name, coordinates, and time/resolution. Includes stations like KLR, SOMM, MKAR, KURBB, WRA, BVAR, and ASAR.

IDC 11 08:37:00.6-0.9, 42.37N-138.51E, h241km, 9km, mb3.4/11, mbmp4.0/15, Error ellipse: s-maj=12.2km s-min=11.1km az=149.0

MOS 11 08:37:00.7-1.4, 42.36N-138.47E, h256km, mb4.0/8, Error ellipse: s-maj=8.7km s-min=8.4km az=120.6

SKHL 11 08:37:01.5-0.4, 42.40N-138.70E, h268km, 11km, mb4.9/8, msha5.3/5

JMA 11 08:37:01.4-0.2, 42.42N-139.31E, h249km, 1km, MW3.4/26, SW OFF HOKKAIDO

ISN 11 08:37:01.5-0.6, 42.40N-138.62E, h253km, 5km, n80, c154/106, mb3.8/16, 9C-8D, Eastern Sea of Japan

Main table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists numerous stations including JOSH, JHST, JSH, JYM2, etc.

Main table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like MAJO, MJAR, SHO, JGF, UGL, etc.

ASRS 11 08:37:11.0-1.3, 53.65N-87.96E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 08:37:16.1-3.2, 53.61N-87.84E, h0km, mbtmp2.7/2, ML2.1/2, Error ellipse: s-maj=29.9km s-min=17.2km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like I46RU, ZALV, KURBB, etc.

ASRS 11 08:50:23.0-1.3, 54.10N-90.20E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ASRS 11 08:50:26.0-1.0, 54.13N-87.21E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 08:50:30.2-3.1, 54.12N-87.26E, h0km, mbtmp2.8/2, ML2.2/2, Error ellipse: s-maj=26.8km s-min=18.5km az=57.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like I46RU, ZALV, KURBB, etc.

HEL 11 08:50:40.3-0.3, 59.76N-27.45E, h0km, ML1.9, Explosion EST 11 08:50:40.9-0.1, 59.81N-27.43E, h0km, ML1.9(HEL), Explosion IDC 11 08:50:42.9-2.3, 59.93N-27.30E, h0km, mbtmp3.1/3,

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like EEO4, VJF, etc.

ML2.4/3, Error ellipse: s-maj=20.3km s-min=12.4km az=115.0  
ISC 11 08:50:39.1-0.8, 59.83N-0.02-27.43E, h0km, n33, c121/50, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like EEO4, VJF, etc.

ASRS 11 08:52:49.0-1.3, 54.28N-86.83E, h0km, M2.9, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 08:52:49.1-3.1, 54.33N-87.15E, h0km, mbtmp2.8/2, ML2.4/2, Error ellipse: s-maj=27.6km s-min=18.7km az=53.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like I46RU, ZALV, etc.

ASRS 11 08:57:44.0-1.1, 53.61N-87.94E, h0km, M2.9, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 11 08:57:50.0-3.0, 53.55N-87.78E, h0km, mbtmp2.9/2, ML2.4/2, Error ellipse: s-maj=24.1km s-min=15.1km az=66.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like I46RU, ZALV, etc.

IDC 11 09:02:12.0-1.3, 28.14N-57.39E, h0km, mb3.7/9, mbtmp3.7/9, Error ellipse: s-maj=28.8km s-min=26.2km az=148.0

TEH 11 09:02:13.8, 28.33N-57.46E, h9km, 27km OMH 11 09:02:18.8-1.1, 27.98N-57.65E, h10km, m3.4/14, Error ellipse: s-maj=9.5km s-min=6.7km az=158.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Resolution. Lists stations like I46RU, ZALV, etc.





Table with columns for station name, code, station name, and various numerical values representing seismic data for stations like PMRV, Aveiroes, Chefochauen, etc.

Table with columns for station name, code, station name, and various numerical values representing seismic data for stations like PMPST, Porto Santo, Mazaricos, etc.

Table with columns for station name, code, station name, and various numerical values representing seismic data for stations like KURBB, ZALV, ZALZ, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like KAPPI, SMPI, JAY, SOEI, ENLV, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like D23K, C23K, E23K, H23K, I23K, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like BRRN, FFL1, VCES, etc.

STR 11 12:26:39.81:4.45°N:6°51'W, h17km,7km,MLv1.2/7, Error ellipse: s-maj=0.0km s-min=0.0km az=41.5,preliminary, France

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include GRN, ORIF, etc.

VAO 11 12:27:58.8:6.8,4.30S:80.78W, h15km,40km,mb4.8 R5NC 11 12:28:08.4:0.5,4.53°S:8°0'W, h63km,8km, M4.3, mB4.9, mb4.7, ML3.9, Mw(Mb)4.2

ISC 11 12:28:08.6:1.18°S:81.00°W, h43km,4km, MLV4.7/9.6, s-min=5.5km az=59.8, confirmed

ISC 11 12:40:00.6:2.1,37.65°S:0.08°W, h305km,12km, n162, e184/169, North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like KMRZ, TGRZ, KARZ, etc.

NOU 11 12:40:01.7, 37.75°S:176°13'E, h310km, MLV3.6/14, North Island, New Zealand

WEL 11 12:40:07.0:0.8,38°S:4°17'6"E, h258km,7km, M2.9/6.4, ML2.4/8, MLV2.9/6.4, Error ellipse: s-maj=6.1km s-min=5.5km az=59.8, confirmed

ISC 11 12:40:00.6:2.1,37.65°S:0.08°W, h305km,12km, n162, e184/169, North Island

Table with columns: WHVZ, TWGZ, GRZ, TRVZ, PKGZ, WHHZ, WNVZ, PKVZ, RIGZ, MOVZ, ARHZ, KRWZ, MTVZ, VRZ, MCHZ, PUZ, KOKZ, MZK, CNXZ, PRGZ, WMGZ, KRHZ, MHGZ, CKHZ, KAHZ, LREZ, PNHZ, NEZ, WAZ, PKE, PREZ, KHEZ, WAIK, TSZ, WPHZ, PXZ, OHWZ, DVHZ, PRHZ, POWZ, ANWZ, PRWZ, BFZ, BFZ, TIWZ, GWZ, KIW, OUZ, OUZ, TMWZ, MTW, DUVZ, TRWZ, PAWZ, WEL, SNZO, MSWZ, TCWZ, BHW, PLWZ, TUWZ, NNZ, TKNZ, QNZ, QNZ, CMWZ, BSWZ, MRNZ, THZ, KHZ, DSZ, GVZ, LTZ, AMCZ, OXZ, OKCZ, MOZ, RACZ, WVZ, MHCZ, WACZ, RPKZ, GPZ, ARCZ, FQZ, TMZ, LBZ, ODZ, ODZ, JCKZ, JCKZ, WKZ, WHZ

THE 11 12:56:13.2, 40°N, 1°21'16E:0.8, h14km, 1km, ML2.6/7, ML2.6/7
ATH 11 12:56:13.1, 40°45'N, 21°53E, h14km, 1km, ML2.6/7
Manual Solution by S.Koutrikis First location: 2019/06/11 12:57:09. This location: 2019/06/11 13:06:19 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 0 km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: VTS, SELS, ZAPS, GROS, GUCS, TEKS, NEIC 11 13:12:42.0, 1.4, 14°30'S, 0°10'16.7, 55E:0°05, h152km, 9km, mb4.6/23, Error ellipse: s-maj=15.8km s-min=4.4km az=155.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: VAF, OBFO, OBFO, OUF, UMAU, UMAU, OBFA, OBFA, OBF, OBF, OUL, HUSU, KKP, KALU, KALU, NIF, TOF, TOF, FIAO, FIAO, HEF

IDC 11 13:52:36.8, 1.5, 7°16'S, 128°85E, h0km, mb3.8/2, mbmp4.3/6, ML4.5/4, Error ellipse: s-maj=45.5km s-min=22.6km az=97.0
NEIC 11 13:52:51.5, 1.2, 7°68S, 0°09:128°17E:0.08, h169km, 8km, mb4.3/9, Error ellipse: s-maj=13.9km s-min=10.3km az=151.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h m s, ISC

Table with columns: Station Name, Time, Azimuth, Elevation, Magnitude, and other parameters. Includes stations like Urumqi, ZIRO, Xian, Baotou, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, Magnitude, and other parameters. Includes stations like KURK, BTLS, CMAR, NJ2, etc.

Table with columns: Station Name, Time, Azimuth, Elevation, Magnitude, and other parameters. Includes stations like VRAC, GERES, C18K, etc.

IDG 11 14:08:16.0, 59:82N-27:07E, h0km, M3.3, The earthquakes of Russia in 2019. Obninsk, GS Ras, 214 p + CD-ROM, 2021.

HEL 11 14:08:17.7, 59:79N-27:45E, h0km, ML1.8, Explosion EST 11 14:08:17.7, 59:81N-27:40E, h0km, ML1.8(HEL), Explosion

ISC 11 14:08:15.4, 0.8, 59:82N, 02:27:43E, 0.03, h0km, m28, r134/46, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Time, Azimuth, Elevation, Magnitude, and other parameters. Includes stations like E004, E005, etc.

IDC 11 14:26:36.4, 1.5, 6:52S; 157:36E, h0km, mb3.5/4, mbmp3.6/6, ML3.8/2, Error ellipse: s-maj=35.9km s-min=28.2km az=109.0

ISC 11 14:26:41.1, 1.1, 6.65S, 02:157:4E, 0.2, h35km, n6, c0887/6, mb3.2/4, Bougainville-Solomon Islands region

11d 16h

Table with columns: Code, Station Name, Azimuth, Phase, Time, Residual, and Station details for JAY, WRA, ASAR, PETK, MKAR.

PRE 11 15:09:01.0-0.8, 26.06S; 29.23E, h0km, ML2.6, Suspected explosion
BGSJ 11 15:09:27.3-3.6, 24.62S; 28.40E, h0km, ML2.5
ISC 11 15:08:01.7-0.9, 26.08S; 0.03-29.24E; 0.03, h0km, n18, c=076/32, South Africa

Main table listing station codes (CRLN, HRAO, WDLM, etc.), station names, azimuth, phase, time, and residual for various stations.

NEIC 11 15:26:55.5-0.1, 21.98S; 0.05-68.7W; 0.1, h137km, 4km, mb4.1/8, ML4.1 (GUC), Error ellipse: s-maj=14.1km s-min=7.8km az=88.0
SJA 11 15:26:55.0-1.5, 22.00S; 68.63W, h133km, ML3.9, MW3.8
IDC 11 15:26:56.9-3.4, 22.01S; 68.13W, h126km, 44km, mb3.9/3, mbtmp4.1/5, Error ellipse: s-maj=88.3km s-min=22.5km az=103.0
GUC 11 15:26:56.1-0.7, 21.95S; 68.60W, h132km, 3km, ML4.1
ISC 11 15:26:55.5-0.6, 21.99S; 0.03-68.72W; 0.05, h139km, 5km, n77, c=1820/95, mb4.2/5, 11C-ID, Chile-Bolivia border

Table listing station codes (PB09, PB08, PB07, etc.), station names, azimuth, phase, time, and residual for various stations.

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Table listing station codes (PX03, PB08, TA01, etc.), station names, azimuth, phase, time, and residual for various stations.

DJA 11 15:44:41.8-0.3, 2.4S; 101.1E, h102km, 6km, M4.0/11, mB5.5/1, mb4.2/3, MLV4.0/11, Mw(mb)4.9/1, Southern Sumaterra
Code Station Name Azimuth Phase ID Time Res
PPI Padang Panjang 1.90 330 Op Pn 15 45 40.0 +0.8
KSI Kapahiang 1.97 141 P S 15 45 38.3 +1.2
SISI Saibi 2.39 289 P Pn 15 45 20.1 +0.6
BVAR Borovoye Arra 70.9 328 P P 16 13 02.1 +0.5

NEIC 11 15:36:53.9-0.4, 19.44N; 0.01-155.34W; 0.01, h7km, 3km, Error ellipse: s-maj=2.1km s-min=1.1km az=135.0
HVO 11 15:36:53.8-0.4, 19.436N; 0.009-155.334W; 0.009, h5km, 1km, ML2.5/38, ML2.3/42 (NEIC), Error ellipse: s-maj=1.4km s-min=1.2km az=135.0, Hawaiian Islands

Table listing station codes (UWE, WRMH, OBL, etc.), station names, azimuth, phase, time, and residual for various stations.

Table listing station codes (SBLHI, RIM, HATHI, etc.), station names, azimuth, phase, time, and residual for various stations.

Table listing station codes (TNTI, SAI, KSI, etc.), station names, azimuth, phase, time, and residual for various stations.

Table listing station codes (TNTI, SAI, KSI, etc.), station names, azimuth, phase, time, and residual for various stations.



Table with columns: ID, Name, Comp, Az, El, S, P, Res, Time, Res. Includes entries like Q19K Cape Douglas, Q19K Augustine Cone, P19K Oil Pt, etc.

Table with columns: ID, Name, Comp, Az, El, S, P, Res, Time, Res. Includes entries like HIN Hinchinbrook I, PPLA Pukekohe River, M14K Kuluin, etc.

Table with columns: ID, Name, Comp, Az, El, S, P, Res, Time, Res. Includes entries like ADK Adak, YKA Yellowknife Ar, PETK Petropavlovsk, etc.

11d 17h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Naotogyohara, Amami Oshima, Aguni Jimma, etc.

KRNET 11 17:01:49.0.0.1, 41.74N, 77.64E, h20km, mb3.0
SOME 11 17:01:49.1.0.1, 41.80N, 77.68E, h10km
NCC 11 17:01:50.1.0.7, 41.81N, 77.66E, h0km, mb3.5, mpv3.4,
Error ellipse: s-maj=4.6km s-min=3.2km az=02, h3km, 10km,
ISC 11 17:01:50.2.1.4, 41.79N, 77.61E, h0.02, h3km, 10km,
az=17, s121/80, 24C-13D, Kyrgyzstan-Xinjiang border region

Main table for 11d 17h section, listing various stations and their parameters. Includes stations like KDJ, Przheval'sk, Ulahol, etc.

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Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KNOSS, AML, EK2, etc.

RSNC 11 17:05:06.0.0.0, 9°N, 1°7'42"W, h92km, 2km, M3.2, mb4.0, ML3.0
IDC 11 17:05:51.2.2.2, 8.94N, 73.57W, h120km, 26km, mb3.0/2,
mbmp3.6/4, MS2.0/1, Error ellipse: s-maj=31.7km
s-min=12.6km az=135.0

ISC 11 17:05:49.2.0.9, 9.07N, 0.03, 73.71W, 0.03, h96km, 7km,
n41, n18/71, Northern Colombia

Main table for 2019 JUN section, listing various stations and their parameters. Includes stations like AGCC, ARG, etc.

ISC 11 17:14:01.2.0.8, 10.90S, 0.06, 162.03E, 0.06, h36km, n16,
s185/18, mb3.4/4, Bougainville-Solomon Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HURO, HURO, etc.

NEIC 11 17:37:42.9.1.5, 18.8N, 0.3, 68.87W, 0.06, h112km, 7km,
ML2.5/B, MD2.74(RSPR), Error ellipse: s-maj=37.8km
s-min=4.5km az=189.0

RSPPR 11 17:37:43.3, 18.33N, 68.93W, h105km, 2km, MD2.7/4
SDD 11 17:37:44.0.2.7, 18.48N, 68.78W, h116km, 18km, MD3.1,
ML2.6, MV2.9

ISC 11 17:37:44.3.1.5, 18.46N, 0.10, 68.86W, 0.03,
h103km, 11km, n24, n19/65/32, 15C-2D, Monaco Passage

Main table for ISC 11 17:14:01.2.0.8 section, listing various stations and their parameters. Includes stations like HIDR, HIDR, etc.

IDC 11 17:39:06.5.5.5, 7.57S, 128.19E, h172km, 53km, mb3.0/2,
mbmp3.8/6, Error ellipse: s-maj=55.7km s-min=22.3km
az=44.0

NEIC 11 17:39:07.2.2.4, 7.70S, 0.10, 128.32E, 0.08, h161km, 15km,
mb4.2/4, Error ellipse: s-maj=14.7km s-min=10.7km
az=152.0

ISC 11 17:39:07.6.0.8, 7.78S, 0.07, 128.29E, 0.07, h200km, n22,
s249/25, mb3.4/3, Banda Sea

Main table for ISC 11 17:39:06.5.5.5 section, listing various stations and their parameters. Includes stations like Code, Station Name, Az, Az', Phase ID, Time, Res, ISC.

NEIC 11 17:42:26.1±2.3, 9.86N;0.07:126.4E;0.1, h47km, 7km, mb4.6/36, Error ellipse: s-maj=15.0km s-min=9.3km az=73.0

IDC 11 17:42:30.6±1.8, 9.93N;126.21E, h85km, 17km, mb3.8/23, mbtmp4.2/28, MS3.3/19, Error ellipse: s-maj=21.3km s-min=9.6km az=78.0

DJA 11 17:42:39.1±1.8, 9.9N;126.21E, h235km, 10km, M4.5/12, mb4.3/12, mb4.8/4, MLv4.7/6, Mw(Mb)4.0/4

ISC 11 17:42:25.3±0.4, 9.97N;126.05:126.27E;0.09, h42km, n98, ±15460, mb4.4/39, MS3.2/15, Mindanao

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like DAV Dao (W), DAV Dao (W), SGSI Sangihe, TGYY Tagaytay City, MYLDM Lahad Datu, etc.

Table with columns: H17K, I1amb, I1amb, 17 54 01.1, etc. Includes stations like E18K Tukpahleark, C19K Lookout Ridge, D19K Kuna River, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like WRA Warrunganga Arr, WRA Warrunganga Arr, etc.

IDC 11 18:03:30.2±1.9, 9.71N;125.50E, h0km, mb3.5/5, mbtmp3.5/5, Error ellipse: s-maj=216.4km s-min=21.6km az=66.0, Mindanao

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like WRA Warrunganga Arr, ASAR Alice Springs, ILAR Eielson Array, etc.

IDC 11 18:27:38.0±0.8, 21.98S;169.29E, h0km, mb4.1/10, mbtmp4.0/11, ML3.8/1, MS3.4/6, Error ellipse: s-maj=24.7km s-min=23.0km az=169.0

NOU 11 18:27:37.7±1.9, 35.16S;169.34E, h0km, MLv4.4/12, Southeast of Loyalty Islands

NEIC 11 18:27:41.2±2.2, 22.06S;0.04:169.11E;0.08, h10km, 1km, mb4.4/15, Error ellipse: s-maj=12.8km s-min=7.4km az=287.0

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like WRA Warrunganga Arr, ASAR Alice Springs, ILAR Eielson Array, etc.

Table with columns: BKZ, I1amb, I1amb, 17 54 01.1, etc. Includes stations like MRZ Mangatainora, MRZ Mangatainora, BFZ Birch Farm, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like TXAR Lajitas Array, EKA Eskdalemar Arr, RONA Rosalia, etc.

IDC 11 18:35:13.2±1.1, 54.30N;169.15E, h0km, mb3.8/15, mbtmp3.8/17, ML3.8/2, MS3.0/4, Error ellipse: s-maj=34.4km s-min=14.8km az=5.0

KRSC 11 18:35:14.8±1.3, 54.10N;169.08E, h2km, 29km, M4.3

MOS 11 18:35:17.3±0.7, 54.09N;169.01E, h55km, mb4.0/1, Error ellipse: s-maj=6.6km s-min=6.6km az=9.4

ISC 11 18:35:16.0±0.6, 54.14N;0.07:169.09E;0.05, h25km, n83, ±192483, mb3.7/15, MS3.1/3, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Op, Phase ID, ISC, Time Res, h, m, s, ISC, Res. Includes stations like BKI Bering, SHEM Shemya Is, MKZ Mys Kozlova, etc.





Table with columns: ID, Name, Az, El, AzM, ElM, AzR, ElR, AzS, ElS, AzC, ElC, AzD, ElD, AzE, ElE, AzF, ElF, AzG, ElG, AzH, ElH, AzI, ElI, AzJ, ElJ, AzK, ElK, AzL, ElL, AzM, ElM, AzN, ElN, AzO, ElO, AzP, ElP, AzQ, ElQ, AzR, ElR, AzS, ElS, AzT, ElT, AzU, ElU, AzV, ElV, AzW, ElW, AzX, ElX, AzY, ElY, AzZ, ElZ. Rows include Porcupine River, Malcolm River, Denali Highway, etc.

Table with columns: ID, Name, Az, El, AzM, ElM, AzR, ElR, AzS, ElS, AzC, ElC, AzD, ElD, AzE, ElE, AzF, ElF, AzG, ElG, AzH, ElH, AzI, ElI, AzJ, ElJ, AzK, ElK, AzL, ElL, AzM, ElM, AzN, ElN, AzO, ElO, AzP, ElP, AzQ, ElQ, AzR, ElR, AzS, ElS, AzT, ElT, AzU, ElU, AzV, ElV, AzW, ElW, AzX, ElX, AzY, ElY, AzZ, ElZ. Rows include Alatina River, Aiyiyak River, Anotleneega Mo, etc.

Table with columns: ID, Name, Az, El, AzM, ElM, AzR, ElR, AzS, ElS, AzC, ElC, AzD, ElD, AzE, ElE, AzF, ElF, AzG, ElG, AzH, ElH, AzI, ElI, AzJ, ElJ, AzK, ElK, AzL, ElL, AzM, ElM, AzN, ElN, AzO, ElO, AzP, ElP, AzQ, ElQ, AzR, ElR, AzS, ElS, AzT, ElT, AzU, ElU, AzV, ElV, AzW, ElW, AzX, ElX, AzY, ElY, AzZ, ElZ. Rows include NORSAR Array B, HFS Hagfors, ARCES ARCES Array B, etc.



Table with columns: Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

IDC 11 19:09:54.2±2.0, 17.995±178.84E, h575km, 14km, mb2.3/2, mbtmp3.3/2, Error ellipse: s-maj=68.6km s-min=33.6km az=128.0, Fijl Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

IDC 11 19:20:24.4±1.9, 7.45S, 128.41E, h144km, 17km, mb4.1/16, mbtmp4.5/21, M3S, Error ellipse: s-maj=14.5km s-min=10.3km az=77.0

NEIC 11 19:20:24.2±1.7, 7.55S, 0.02±128.54E, 0.06, h153km, 7km, mb4.6/46, Error ellipse: s-maj=9.1km s-min=2.9km az=79.0

DJA 11 19:20:25.1±0.2, 8°S, 2°E, h169km, 6km, M4, 7/25, mb4.6/25, mb5.2/13, MLV4.8/19, Mw(mb)4.6/13, MwMwp4.7/1, Mwps, 1/5

ISC 11 19:20:24.3±0.3, 7.75S, 0.04±128.45E, 0.04, h151km, n175, ±180/185, mb4.5/43, 2D, Banda Sea

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

ISC 11 19:20:25.1±0.1, 50.06N, 0.03±18.43E, 0.02, h0km, n32, ±159/58, Poland

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

IEPC 11 19:35:17.6±0.1, 50.10N, 18.49E, h1km, ML2.6/5, Error ellipse: s-maj=1.4km s-min=0.9km az=172.0

VIE 11 19:35:17.9±0.5, 49.81N, 18.63E, h0km, mb2.2/2, ml2.2/3, Error ellipse: s-maj=7.5km s-min=3.3km az=159.0, 28 km E of Ostrava Suspected Mining Induced.

PRU 11 19:35:20.5, 50.06N, 18.32E, h0km, IDC 11 19:35:22.5±1.1, 50.16N, 18.66E, h0km, mbtmp3.1/3, ML2, 4/3, Error ellipse: s-maj=26.3km s-min=9.9km

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

ISC 11 19:35:16.5±0.7, 50.06N, 0.03±18.43E, 0.02, h0km, n32, ±159/58, Poland

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res

Table with columns: Code, Station Name, Azimuth, Phase ID, Time Res, h m s, Res



Table with columns: MCCM, Johnson Can, FARB, BSRM, BUCR, RNSM, BJOM, NMTM, SCZ, HMOM, AFDM, AFDM, BJCM, MNRC, MNRC, LEGD, BBSG, BBSM, GGPM, GDXM, BPRM, BSGM, SSM, LRV, SFRE, MHDM, MMIM, GHGM, HOPS, PMPB, PMPB, ORV, ORV, WAKR, WAKR, MPK, PNTR, BEKR, BEKR, KCPM, LHV, OZD2, RYN, RYN, PAHR, PAHR, PAHR, NVAR, NV11, NV11, DSP, DSP, DSP, KMRM, KMRM, HATC, MZP, BCW, BCW, BCW, GRAC, GRAC, TPH, GMM, GMM, GMM, KRMB, KRMB, KRMB, GWY, GWY, GWY, TPNV, TPNV, KRSB, KRSB, KRSB, R11B, R11B, WVOR, WVOR, WVOR, J05D

Table with columns: WB0, WRA, AS31, ASAR, ASAR, SONM, NWA0, STKA, MKAR, MKAR, ZALV, KURB, KURB, GAR, GAR, KBL, KBL, HRA, AKTO, ARTI, KIRV, BELG, OBN, AKASO, BURAR, BURAR, BUR08, BUR08, MLR, HFS, NWA, VRAC, VRAC, BORG

AUST 11 21:07:51.0-5.30'S x 131°11'E, h10km, mb4.4/1, ML2.5/3, Error ellipse: s-maj=7.3km s-min=5.5km az=52.8, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC

ISK 11 21:10:46.1, 39°39'N-33°04'E, h8km, ML2.8/1.3 AFAD 11 21:10:46.5, 39°39'N-33°04'E, h7km, 4km, ML2.6

ISC 11 21:10:46.5-0.9, 39°39'N-0.02-33°05'E, 0.02, h11km, 7km, n34, c=047/57, Turkey

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC

Table with columns: BCAM, CORM, ILGA, SVRH, CHBY, YOZG, YOZG, YCZR, MOUR, MOUR, MOUR, COAL, COAL, COAL, AYAZ, AYAZ, AYAZ, CIFT, SULT, LADK

IDC 11 21:25:40.5-2.1, 1°27'S-77°71'W, h174km, 20km, mb3.7/10, mbmp4.3/14, MS2.9/1, Error ellipse: s-maj=22.1km s-min=12.2km az=65.0

IGO 11 21:25:41.4-0.6, 1°S x 77°8'W, h184km, 4km, MLV3.6/34 VAO 11 21:25:41.6-0.6, 1°29'S-77°58'W, h161km, 8km, mb4.3 NEIC 11 21:25:41.7-1.36S, 0.06-77°74'W, 0.06, h172km, 6km, mb4.4/35, Error ellipse: s-maj=9.7km s-min=6.9km az=142.0

ISC 11 21:25:41.5-0.6, 1°33'S-0°05'-77°86'W, 0.05, h184km, 5km, n197, 151°103/203, mb4.2/25, 13C-36D, Ecuador

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC

Table of seismic events with columns for station name, time, magnitude, and location. Includes stations like MCRA, POPC, GARC, etc.

Table of seismic events with columns for station name, time, magnitude, and location. Includes stations like KSRS, ASAR, WRA, FITZ, etc.

Table of seismic events with columns for station name, time, magnitude, and location. Includes stations like COEN, QIES, MEEK, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like Guantnamo Bay, Rio Carpintero, Santiago de Cu, Nuevo Mundo, etc.

IDC 11 23:02:12.8+0.7, 12.22N; 123.69E, h0km, mb3.9/14, mbtnp3.8/14, MS3.4/11, Error ellipse: s-maj=30.1km s-min=15.6km az=71.0

NEIC 11 23:02:15.5+1.1, 12.22N; 101.123.8E:0.1, h10km, 1km, mb4.5/24, Error ellipse: s-maj=22.5km s-min=16.3km az=266.0

ISC 11 23:02:14.7+0.6, 12.26N; 0.008:123.8E:0.1, h10km, n54, r1505/46, mb4.1/25, MS3.3/9, Luzon

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like DAV Davao City (W), MYLDM Lahad Datu, JOW Kunigami, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like D19K comp=2.6,0nm,1.1s, H19K Roundabout Mo, etc.

MDD 11 23:04:45.2+0.6, 36.150N; 2.84W, h19km, 5km, mb Lg2.6/25, Error ellipse: s-maj=3.9km s-min=2.3km az=170.0

CNRM 11 23:04:46.9, 36.56N; 2.84W, h64km SFS 11 23:04:46.5, 36.61N; 2.82W, h27km, ML2.6/7, ML2.3/7, MLV2.2/7

ISC 11 23:04:44.3+1.1, 36.56N; 0.02:2.86W:0.12, h13km, gkm, n41, c137/63, Id, Strait of Gibraltar

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like ENIJ Nijar, QUENTAR, PRESA DE QUENT, etc.

IDC 11 23:07:28.6+6.2, 11.141N; 95.63E, h0km, mb3.8/9, mbtnp3.8/9, MS3.5/4, Error ellipse: s-maj=136.9km s-min=50.1km az=138.0, Andaman Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like PSI Prapat, JOW Kunigami, MKAR Makanchi Arra, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like MMAI Mount Meron Ar, BRTR Keskin Arr B, etc.

IDC 11 23:23:37.9+0.4, 54.91S; 127.31W, h0km, mb4.4/13, mbtnp4.3/13, MS4.7/38, Error ellipse: s-maj=20.5km s-min=14.7km az=159.0

MOS 11 23:23:40.0+1.7, 55.27S; 126.92W, h10km, mb5.2/11, Error ellipse: s-maj=24.4km s-min=17.8km az=57.8

BUI 11 23:23:41.0, 55.10S; 127.00W, h10km, MS5.2/9, MS7.5/0/10

NEIC 11 23:23:41.3+1.7, 55.1S; 0.1x:127.1W:0.2, h10km, 1km, mb5.2/82, Error ellipse: s-maj=21.3km s-min=15.6km az=332.0

GCMT 11 23:23:44.3+0.1, 55.18S; 0.01x:127.14W:0.01, h12km, MW5.2/42, Moment Tensor Solution, s94,c147, s142,c242, Duration: 19.0 Moment tensor: Scale 1017

Palmer Station 31.80 134 LR 23 39 28.8

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, h, m, s, ISC. Includes data for stations like SMAI San Martin Arr, PMSA Palmer Station, USHA Ushuaia, etc.



11d 23h

2019 JUN

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Table with columns: ZON, comp-Z, I, Amb, I, Amb, 23, 32, 17.7, etc. Lists various stations and their associated data.

Table with columns: H01W2, Cape Leeuwin H, 76.25 228 T, T, 01 00 03.1, etc. Lists various stations and their associated data.

Table with columns: KEST, Kesra, 144.62 105 PKP, PKP, 23 43 13.1 -2.5, etc. Lists various stations and their associated data.



Table with columns for station name, coordinates, elevation, and various parameters. Includes stations like MAK Makhachkala, BVAR Borovoye Array, OBN Obninsk, KLMR Klimovskoe.

SDD 11 23:32:47.2±2.5, 18°64N; 72°88W, h0km-830km, MD3.5, ML2.1, MWV2.4

OSPL 11 23:32:48.4±1.1, 18°43N; 72°82W, h4km-4km, ML2.3, 8C, Haiti region

Main station table for the Haiti region, including stations like PAPH Port-au-Prince, LODU1 El Espartillar, PODR Polo, etc.

WEL 12 00:26:25.0±0.5, 42°S; 2\*17°4E, h8km-3km, M3.0/9, ML3.3/8, MLV3.0/9, Error ellipse: s-maj=4.1km

NOU 12 00:26:28.3±2.1, 13°S; 173°74E, h21km, MLV3.5/11, South Island, New Zealand

ISC 12 00:26:23.0±0.9, 41.9719S; 173.999E, 0.03, h15km-5km, n56, e073/68, South Island

Main station table for the New Zealand region, including stations like KEKS Kekerengu Vall, WDFS Ward Fire St, BSZW Blackbirch Sta, etc.

IDC 12 00:41:15.2±2.3, 13°29S; 166°71E, h0km, mb3.6/3, mbtp3.6/3, MS3.9/1, Error ellipse: s-maj=72.1km

Main station table for the IDC region, including stations like WRA Warramunga Arr, ASAR Alice Springs, TGY Tagay City, etc.

1.6mm, 0.9s, baz=39, slow=1.8, SNR=1.2

NAO 12 00:45:50.4, 30°82N; 49°86E, h33km, mb3.8

IDC 12 00:45:54.4±1.4, 31°96N; 49°76E, h0km, mb3.9/17, mbtp3.9/22, ML3.5/5, Error ellipse: s-maj=28.7km

NEIC 12 00:45:56.8±2.4, 31°39N; 0°08; 49°73E; 0.09, h10km-1km, mb4.2/31, Error ellipse: s-maj=14.7km s-min=1.1km

TEH 12 00:45:57.1, 32°01N; 49°79E, h8km-29km

ISC 12 00:45:56.5±0.4, 32.000N; 0.04; 49.73E; 0.03, h10km, n186, e168/178, mb4.3/45, MS3.8/12, 6C-7D, Western Iran

Main station table for the Iran region, including stations like JHBN Jahan bin Zang, ZNGZ Anzang, IPIR Pirpir, etc.

VRI Vriociaia, PVR Vriociaia

Main station table for the VRI region, including stations like WRI Vriociaia, PVR Vriociaia, MLR Muntele Rosu, etc.

Main station table for the 12d 0h region, including stations like VOIR Malin Array Si, AK07 Malin Array Si, AK09 Malin Array Si, etc.

WRA Warramunga Arr 95.95 110 P P 00 59 23.6 -0.5

IDC 12 00:54:47.7-0.6, 49°68'N-157°21'E, h0km, mb4.3/27, mbmp4.3/33, MA 4/5, MS 5/6, Error ellipse: s-maj=17.5km s-min=12.1km az=153.0 NEIC 12 00:54:49.5-1.9, 49°63'N-157°20'E-0.1, h10km, 1km, mb4.7/77, Error ellipse: s-maj=17.9km s-min=12.3km az=137.0 KRSC 12 00:54:50.3-1.9, 49°55'N-157°23'E, h0km, mb5.0/37, Error ellipse: s-maj=7.7km s-min=3.0km az=87.2 MOS Felt (I) at Severo-Kuril'sk...

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res

Main table of seismic events with columns: KLR, Kuldur, 16.61 279 Pn Pn 00 58 42.5 -0.5

Table of seismic events with columns: MAKZ, Makanchi, 48.32 297 P Iamb P 01 03 29.2 -0.7

Table with columns: Station Name, Frequency, Band, Mode, Power, Azimuth, Elevation, SNR, etc. Includes stations like NORSA Subarra, MORC Moravsky Berou, and various other radio stations.

Table with columns: Station Name, Frequency, Band, Mode, Power, Azimuth, Elevation, SNR, etc. Includes stations like MORC Moravsky Berou, LANS Liptovska Aha, and various other radio stations.

Table with columns: Station Name, Frequency, Band, Mode, Power, Azimuth, Elevation, SNR, etc. Includes stations like MMAI Mount Meron Ar, ARG Arkhangelos, and various other radio stations.

ADC 12 01:01:46.254.4, 34.63Sx178.63E, h224km, 38km, mb3.3/3, mbmp3.9/4, Error ellipse: s-maj=63.7km s-min=-22.4km az=42.0

WEL 12 01:01:48.81.0, 35.5Sx117.97E, 13h, h254km, 16km, s-min=13.3km az=60.0, confirmed

ISC 12 01:01:50.21.6, 33.0Sx117.87E, 0.1, h265km, 11km, n85, c187/105, mb3.3/3, Off east coast of North Island

Table with columns: Code, Station Name, Frequency, Band, Mode, Power, Azimuth, Elevation, SNR, etc. Includes stations like MXZ Matakaoa Point, WAIWAI Waiomatatini S, and various other radio stations.

CUC	comp=N,85µm,1.0s		AML	AML		ORI	comp=N,472µm,1.7s		AML	AML		PLAC	comp=N,347µm,0.3s		AML	AML	
CUC	comp=E,117µm,0.5s		AML	AML		<b>SLCN Sala Consiliina</b>	0.77 355	P	AML	Pn	01 10 58.9 +2.0	<b>PLAC Lipari</b>	comp=N,374µm,1.6s	1.32 207	P	Pn	01 11 02.1 +2.1
CUC	comp=N,74µm,0.6s		AML	AML		<b>SLCN</b>	comp=N,86µm,0.6s		AML	AML		<b>PALZ Palazzo San G</b>	1.33 8	P	Pn	01 11 00.4 +0.3	
CUC	comp=E,131µm,0.8s		AML	AML		<b>SLCN</b>	comp=E,101µm,0.8s		AML	AML		<b>PALZ</b>	comp=E,60µm,1.1s		AML	AML	
CUC	comp=N,109µm,0.7s		AML	AML		<b>SLCN</b>	comp=E,101µm,0.8s		AML	AML		<b>SNAL S. Angelo Dei Scilla</b>	1.36 344	P	Pn	01 11 01.9 +1.6	
CUC	comp=E,117µm,0.5s		AML	AML		<b>SLCN</b>	comp=N,86µm,0.6s		AML	AML		<b>MSRU Castanea</b>	1.37 187	P	Pn	01 10 59.8 -0.6	
CUC	comp=N,85µm,1.0s		AML	AML		<b>SLCN</b>	comp=E,122µm,0.7s		AML	AML		<b>VPL Vulcano Piano</b>	1.37 205	P	Pn	01 11 02.0 +1.6	
<b>TDS Terranova Siba</b>	0.48 86	↓ P S	Pn S	AML	01 10 57.5 +1.6	<b>SLCN</b>	comp=N,86µm,1.4s		AML	Pn	01 10 58.3 +0.9	VPL	comp=E,112µm,0.7s		AML	AML	
<b>TDS</b>	comp=N,132µm,0.7s		AML	AML		<b>PIPA Pietrapaola</b>	0.86 99	↓ P S	AML	Pn	01 10 58.3 +0.9	VPL	comp=N,162µm,0.6s		AML	AML	
<b>TDS</b>	comp=E,146µm,1.3s		AML	AML		<b>PIPA</b>	comp=E,537µm,1.2s		AML	AML		VPL	comp=N,161µm,0.6s		AML	AML	
<b>TDS</b>	comp=N,144µm,0.7s		AML	AML		<b>PIPA</b>	comp=N,350µm,1.3s		AML	AML		VPL	comp=N,162µm,1.4s		AML	AML	
<b>TDS</b>	comp=N,132µm,0.7s		AML	AML		<b>PIPA</b>	comp=E,447µm,1.2s		AML	AML		<b>CEL Celeste</b>	1.37 174	P	Pn S	01 11 00.5 0.0	
<b>TDS</b>	comp=N,148µm,0.7s		AML	AML		<b>PIPA</b>	comp=N,302µm,1.3s		AML	AML		<b>CEL</b>	comp=E,240µm,0.3s		AML	AML	
<b>BULG Bulgheria - Ca</b>	0.52 330	P	Pn	AML	01 10 57.3 +1.2	<b>PIPA</b>	comp=N,302µm,1.3s		AML	AML		<b>CEL</b>	comp=N,322µm,0.3s		AML	AML	
<b>BULG</b>	comp=E,65µm,1.3s		AML	AML		<b>PIPA</b>	comp=E,536µm,1.3s		AML	AML		<b>CEL</b>	comp=N,240µm,0.3s		AML	AML	
<b>BULG</b>	comp=N,146µm,0.7s		AML	AML		<b>PIPA</b>	comp=N,350µm,1.3s		AML	AML		<b>CEL</b>	comp=E,240µm,0.3s		AML	AML	
<b>BULG</b>	comp=N,140µm,0.7s		AML	AML		<b>PIPA</b>	comp=E,434µm,0.2s		AML	AML		<b>CEL</b>	comp=N,342µm,0.3s		AML	AML	
<b>BULG</b>	comp=E,64µm,1.3s		AML	AML		<b>PIPA</b>	comp=N,319µm,0.5s		AML	AML		<b>CEL</b>	comp=E,240µm,0.3s		AML	AML	
<b>BULG</b>	comp=N,141µm,0.7s		AML	AML		<b>PIPA</b>	comp=E,428µm,0.2s		AML	AML		<b>CEL</b>	comp=N,322µm,0.3s		AML	AML	
<b>BULG</b>	comp=E,63µm,0.5s		AML	AML		<b>PIPA</b>	comp=N,296µm,0.2s		AML	AML		<b>CEL</b>	comp=E,242µm,0.3s		AML	AML	
<b>BULG</b>	comp=N,146µm,0.7s		AML	AML		<b>PIPA</b>	comp=N,350µm,0.7s		AML	AML		<b>CEL</b>	comp=N,342µm,0.3s		AML	AML	
<b>BULG</b>	comp=E,58µm,0.9s		AML	AML		<b>PIPA</b>	comp=N,302µm,0.7s		AML	AML		<b>CEL</b>	comp=N,342µm,0.3s		AML	AML	
<b>BULG</b>	comp=N,146µm,0.7s		AML	AML		<b>PIPA</b>	comp=E,447µm,0.8s		AML	AML		<b>IFIL Filicudi I Eol</b>	1.39 221	P	Pn	01 11 01.8 +1.3	
<b>BULG</b>	comp=E,64µm,0.7s		AML	AML		<b>PIPA</b>	comp=E,536µm,0.7s		AML	AML		<b>IFIL</b>	comp=N,124µm,0.8s		AML	AML	
<b>MGR Morigerati</b>	0.53 346	↓ P S	Pn S	AML	01 10 57.1 +1.1	<b>CDRU Civita di Ruta</b>	0.92 340	P	AML	Pn	01 10 58.7 +1.0	<b>IFIL</b>	comp=E,350µm,1.4s		AML	AML	
<b>MGR</b>	comp=N,68µm,1.2s		AML	AML		<b>CDRU</b>	comp=N,43µm,0.7s		AML	AML		<b>IFIL</b>	comp=N,124µm,0.8s		AML	AML	
<b>MGR</b>	comp=E,76µm,0.4s		AML	AML		<b>CDRU</b>	comp=N,43µm,0.7s		AML	AML		<b>IFIL</b>	comp=E,350µm,1.4s		AML	AML	
<b>MGR</b>	comp=N,50µm,0.6s		AML	AML		<b>CDRU</b>	comp=N,26µm,0.6s		AML	AML		<b>MTMR Montemarano</b>	1.40 337	P	Pn	01 11 01.7 +1.0	
<b>MGR</b>	comp=N,68µm,0.8s		AML	AML		<b>CDRU</b>	comp=N,26µm,0.6s		AML	AML		<b>AMUR Altamura</b>	1.45 28	↓ P S	Pn	01 11 01.2 +0.3	
<b>MGR</b>	comp=N,68µm,0.8s		AML	AML		<b>TIP Timpagrande</b>	0.92 118	↓ P S	AML	Pn	01 10 58.6 +0.8	<b>AMUR</b>	comp=N,62µm,1.0s		AML	AML	
<b>MGR</b>	comp=N,68µm,0.8s		AML	AML		<b>TIP</b>	comp=E,150µm,1.5s		AML	AML	01 11 25.0 -0.2	<b>AMUR</b>	comp=N,59µm,0.5s		AML	AML	
<b>CAR1 CAROLEI</b>	0.53 134	↓ P S	Pn S	AML	01 10 56.5 +0.3	<b>TIP</b>	comp=N,158µm,0.5s		AML	AML		<b>AMUR</b>	comp=N,59µm,0.5s		AML	AML	
<b>CAR1</b>	comp=E,1790µm,1.0s		AML	AML		<b>TIP</b>	comp=E,117µm,0.5s		AML	AML		<b>MPNC Fort Mandanici</b>	1.50 191	P	Pn	01 11 02.0 +0.6	
<b>CAR1</b>	comp=N,1575µm,0.5s		AML	AML		<b>TIP</b>	comp=N,158µm,0.5s		AML	AML		<b>MPNC</b>	comp=N,311µm,1.1s		AML	AML	
<b>CAR1</b>	comp=E,2185µm,0.4s		AML	AML		<b>TIP</b>	comp=N,158µm,0.5s		AML	AML		<b>MPNC</b>	comp=N,311µm,1.1s		AML	AML	
<b>CAR1</b>	comp=N,1116µm,0.8s		AML	AML		<b>TIP</b>	comp=N,158µm,0.5s		AML	AML		<b>MPNC</b>	comp=N,293µm,0.3s		AML	AML	
<b>CAR1</b>	comp=N,1116µm,0.8s		AML	AML		<b>TIP</b>	comp=N,158µm,0.5s		AML	AML		<b>MPNC</b>	comp=N,293µm,0.3s		AML	AML	
<b>CAR1</b>	comp=N,1723µm,0.4s		AML	AML		<b>CRAC Craco</b>	0.92 37	↓ P S	AML	Pn	01 10 58.3 +0.7	<b>MPNC</b>	comp=N,311µm,0.9s		AML	AML	
<b>CAR1</b>	comp=N,1572µm,0.5s		AML	AML		<b>CRAC</b>	comp=E,286µm,0.2s		AML	AML	01 11 25.6 +0.5	<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>CAR1</b>	comp=N,1572µm,0.5s		AML	AML		<b>CRAC</b>	comp=N,197µm,1.2s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>CAR1</b>	comp=E,2184µm,0.4s		AML	AML		<b>CRAC</b>	comp=N,197µm,1.2s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>CAR1</b>	comp=N,1116µm,0.8s		AML	AML		<b>CRAC</b>	comp=N,197µm,1.2s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>CAR1</b>	comp=N,1094µm,0.4s		AML	AML		<b>CRAC</b>	comp=E,287µm,0.2s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>CAR1</b>	comp=N,1094µm,0.4s		AML	AML		<b>CRAC</b>	comp=N,176µm,0.3s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB San Lorenzo Be</b>	0.55 62	↓ P S	Pn S	AML	01 10 57.0 +0.8	<b>CRAC</b>	comp=N,176µm,0.3s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=N,1570µm,0.5s		AML	AML	01 11 22.2 -0.3	<b>CRAC</b>	comp=N,176µm,0.3s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=E,218µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=N,168µm,1.0s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=E,219µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=N,167µm,1.0s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=N,168µm,1.0s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SALB</b>	comp=N,167µm,1.0s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI Monte Sirino</b>	0.57 12	P	Pn	AML	01 10 57.5 +1.2	<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8s		AML	AML		<b>MPNC</b>	comp=N,274µm,1.3s		AML	AML	
<b>SIRI</b>	comp=N,136µm,0.3s		AML	AML		<b>CRAC</b>	comp=N,197µm,0.8										

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LK2D, FSK, NYDR, KPRO, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PRVC, PRVC, PRVC, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ABDR, ABDR, ABDR, etc.

IDC 12 01:30:32.6, 0.9, 5.55S, 121.91E, h0km, mb3.7/8, mbmp3.7/9, ML4.0/1, MS2.9/2, Error ellipse: s-maj=58.2km s-min=17.5km az=70.0

ISC 12 01:38:32.7, 0.7, 13.00N, 0.04, 81.03W, 0.03, h10km, n81, c=214/79, mb3.6/5, MS3.4/23, 1C-1D, Caribbean Sea

NEIC 12 02:49:52.6, 0.6, 17.8S, 0.2, 178.4W, 0.2, h590km, 8km, mb4.1/12, Error ellipse: s-maj=29.7km s-min=14.3km az=129.0

NEIC 12 01:30:34.5, 2.2, 0.53S, 121.80E, 0.05, h10km, 1km, mb4.2/4, Error ellipse: s-maj=10.5km s-min=6.7km az=216.0

DJA 12 01:30:34.1, 0.2, 1.2, S, 2, 12, 2E, h10km, M4.2/11, mb4.9/1, mb4.6/2, MLV4.1/11, Mw(MB)4.2/1

ISC 12 01:30:33.2, 1.5, 0.57S, 121.77E, 0.04, h3km, 11km, n32, c=1957/38, mb4.0/11, Minahasna Peninsula, Sulawesi

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MRSI, MRSI, LUWI, LUWI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GMAL, GMAL, AZU, AZU, etc.

ISC 12 02:49:54.3, 1.8, 17.79S, 0.2, 178.71W, h594km, 20km, mb3.1/9, mbmp4.1/10, Error ellipse: s-maj=34.6km s-min=17.9km

ISC 12 02:49:54.3, 0.8, 17.7S, 0.2, 178.7W, 0.1, h600km, n27, c=1320/28, mb3.9/16, Fijil Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BKB, BKB, KJAI, KJAI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LCBG, LCBG, SJCC, SJCC, etc.

ISC 12 02:49:54.3, 0.8, 17.7S, 0.2, 178.7W, 0.1, h600km, n27, c=1320/28, mb3.9/16, Fijil Islands region

Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MSFV, MSFV, ARMA, ARMA, etc.

CATAC 12 01:38:32.0, 4.1, 13.1N, 2.8, 171.1W, h12km, 2km, M4.9/21, mb5.0/5, mB5.8/5, MLV4.7/21, Mw(MB)5.4/5, Error ellipse: s-maj=4.1km s-min=3.8km az=87.7, Moment Tensor Solution. Moment tensor: Scale 10^19Nm, Mr=1.2, Mw=7.40, Mw=3.28, Mw=0.07, Mw=0.52, Mw=0.55, Fault plane solution: M3.48327-1015 NP1=111.51684, 85.110887, 1.125, 561778. NP2=242.80609, 85.071552, 1.54, 20881. Principal axes: T 4.3986, Plg63.0840, Azm86.8084, N 3.0222, Plg26.9150, Azm267.3432, P -7.4207, Plg0.2159, Azm177.2336, Moment Tensor Solution. Moment tensor: Scale 10^15 Nm, Mr=1.5, Mw=7.43, Mw=3.28, Mw=0.05, Mw=0.52, Mw=0.52, Fault plane solution: M3.49299-1015 NP1=110.43120, 85.046983, 1.124, 06561. NP2=243.69255, 85.028765, 1.55, 83322. Principal axes: T 4.4009, Plg64.4032, Azm86.8907, N 3.0502, Plg25.5960, Azm267.1453, P -7.4572, Plg0.0929, Azm177.0978, Moment Tensor Solution. Moment tensor: Scale 10^15 Nm, Mr=1.07, Mw=7.43, Mw=3.28, Mw=0.05, Mw=0.52, Mw=0.52, Fault plane solution: M3.34976-1015 NP1=110.8289336, 82.650334, 1.179, 56745. NP2=243.28045, 89.806698, 1.63, 49731. Principal axes: T 3.4754, Plg39.4332, Azm329.1676, N -0.2672, Plg26.5025, Azm83.3767, P -3.2081, Plg39.0806, Azm197.2648, confirmed

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ILAR, ILAR, MDT, MDT, etc.

Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like STKA, STKA, ASAR, ASAR, etc.

Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ASAR, ASAR, ASAR, ASAR, etc.

Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ASAR, ASAR, ASAR, ASAR, etc.

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Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ASAR, ASAR, ASAR, ASAR, etc.

Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ASAR, ASAR, ASAR, ASAR, etc.





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ARTI	Arti	23.77 340	LR	LR	03 25 49.2	
ARTI	Arti	23.77 340c	/P	P	03 15 37.5 +0.4	
ARTI	ARTI		PPP	PPP	03 16 14.2	
ARTI	ARTI		SS	SS	03 19 52.7 +2.2	
ARTI	ARTI		SSn	SSn	03 20 34.6 +4.5	
ARTI	ARTI		pmax	pmax		
ARTI		comp=Z,103nm,1.2s				
ARTI		comp=Z,466nm,15.0s	MLR	MLR		
WHFO	Wadi Hawf	23.85 230	P	P	03 15 39.1 +0.9	
GEVA	Gevas	24.11 287	P	P	03 15 42.1 +1.4	
NCK	Nalchik	24.18 300c	/P	P	03 15 42.1 +1.0	
NCK	NCK		pmax	pmax		
TNCH	TengChong	24.25 107	eP	LR	03 15 42.8 +0.7	
TNCH	TNCH		LR	LR		
TNCH	TNCH	comp=Z,560nm,8.8s				
TNCH	TNCH	comp=Z,410nm,9.9s	LR	LR		
TNCH	TNCH	comp=Z,470nm,12.3s	LR	LR		
ABTO	Aybut	24.57 230	P	P	03 15 45.0 +0.1	
KBZ	Khabaz	24.70 300	eP	P	03 15 46.3 +0.4	
KBZ	KBZ	comp=Z,26nm,0.8s,baz=110,slow=10.0,SNR=37	LR	LR	03 26 59.3	
KBZ	KBZ	comp=Z,176nm,21.7s,baz=94,slow=40				
KBZ	KBZ	comp=Z,26nm,0.8s				
KBZ	KBZ	Khabaz	24.73 300c	/P	P	03 15 47.1 +1.1
SHA1	Shidzhatmaz	24.90 300c	/P	P	03 15 48.8 +0.9	
GOF	Gofitsko	24.91 303	ceP	P	03 15 49.0 +1.3	
KVAR	Kislovodsk Arr	24.91 301	LR	LR	03 26 23.8	
KIV	Kislovodsk	24.92 301	P	P	03 15 46.8 -1.1	
KIV	KIV		Iamb	Iamb	03 15 54.1	
KIV	Kiv	comp=Z,60nm,0.9s				
KIV	Kiv	Kislovodsk	24.92 301	P	03 15 49.1 +1.2	
KIV	Kiv		P	P	03 15 49.1 +1.2	
KIV	Kiv	Kislovodsk	24.92 301	eP	03 15 48.7 +0.8	
KIV	Kiv		eS	S	03 20 10.6 +1.2	
KIV	Kiv	comp=Z,54nm,1.1s				
KIV	Kiv	comp=Z,188nm,15.0s	MLR	MLR		
KIV	Kiv	Kislovodsk	24.92 301	/P	03 15 49.1 +1.2	
KIV	Kiv	SNR=14				
KIV	Kislovodsk	24.92 301	P	P	03 15 49.2 +1.3	
BELG	Belogornoye	25.16 322	LR	LR	03 27 37.6	
BELG	Belogornoye	25.16 322	/P	P	03 15 50.4 +0.6	
BELG	BELG		pmax	pmax		
LZH	Lanzhou	25.28 78	eP	P	03 15 55.1 +3.9	
LZH	LZH		pP	S	03 16 03.3 -0.9	
LZH	LZH		pmax	pmax		
LZH	LZH	comp=Z,22nm,1.2s	LR	LR		
LZH	LZH	comp=Z,200nm,16.2s	LR	LR		
LZH	LZH	comp=Z,300nm,18.6s	LR	LR		
LZH	LZH	comp=Z,270nm,15.1s				
MARD	Mardin	25.96 285	P	P	03 15 58.3 +0.8	
KOPT	Kop Dag	26.12 291	P	P	03 15 58.0 -0.9	
KOPT	KOPT		Iamb	Iamb	03 16 09.0	
PZH	PanZhiHua	26.16 100	P	P	03 16 01.6 +2.3	
PZH	PZH		PcP	S	03 19 26.9 +0.9	
PZH	PZH		S	S	03 20 27.9 -1.4	
PZH	PZH		pmax	pmax		
PZH	PZH	comp=Z,10.0nm,1.4s				
PZH	PZH	comp=Z,80nm,4.5s				
PZH	PZH	comp=Z,260nm,13.2s	LR	LR		
PZH	PZH	comp=Z,200nm,12.3s	LR	LR		
PZH	PZH	comp=Z,320nm,18.8s	LR	LR		
CD2	Chengdu	26.23 90	P	P	03 16 03.5 +3.7	
CD2	CD2		pmax	pmax		
CD2	CD2	comp=Z,30nm,0.7s	LR	LR		
CD2	CD2	comp=Z,370nm,9.5s	LR	LR		
CD2	CD2	comp=Z,400nm,12.1s	LR	LR		
CD2	CD2	comp=Z,320nm,12.7s	LR	LR		
RAYN	Ar Rayn	26.27 252	P	P	03 15 59.5 -0.7	
RAYN	Ar Rayn	26.27 252	P	P	03 15 59.8 -0.3	
RAYN	Ar Rayn	26.27 252	P	P	03 15 59.5 -0.7	
RAYN	Ar Rayn		pmax	pmax		
RAYN	Ar Rayn	comp=Z,13nm,0.9s				
LABN	Labinsk	26.44 302	eP	P	03 16 02.5 +1.0	
LABN	LABN		ePP	P	03 16 10.0 -0.8	
LABN	LABN		eS	S	03 20 34.9 +1.6	
LABN	LABN		eSS	S	03 21 36.4 +1.1	
LABN	LABN	comp=Z,51nm,0.6s				
LABN	LABN	comp=Z,1um,14.0s	MLR	MLR		
VSLR	Vesolyoye	26.74 299f	eP	P	03 16 06.5 +2.3	
VSLR	VSLR		pmax	pmax		
ERBR	Yeremizino-Bor	26.82 304	eP	P	03 16 06.4 +1.5	
ERBR	ERBR		ePP	P	03 16 14.2 +0.1	
ERBR	ERBR		ePPP	PPP	03 16 54.9	
ERBR	ERBR		eS	S	03 20 42.9 +3.7	
ERBR	ERBR		pmax	pmax		
ERBR	ERBR	comp=Z,20nm,0.7s				
ERBR	ERBR	comp=Z,471nm,15.0s	MLR	MLR		
SOC	Sochi	26.98 299	eP	P	03 16 06.8 +0.4	
SOC	SOC		ePPP	P	03 16 58.2	
SOC	SOC		eS	S	03 20 43.6 +1.8	
SOC	SOC		eSS	S	03 21 48.6 0.0	
SOC	SOC		eSSS	S	03 22 06.5	
SOC	SOC		MLR	MLR		
ZAK	Zakamensk	27.09 45	eP	P	03 16 08.3 +0.9	
ZAK	ZAK		pmax	pmax		
KMI	Kunming	27.57 102	fP	P	03 16 14.8 +2.7	
KMI	KMI		pmax	pmax		
KMI	KMI	comp=Z,27nm,0.9s	LR	LR		
KMI	KMI	comp=Z,310nm,11.5s	LR	LR		
KMI	KMI	comp=Z,230nm,11.5s	LR	LR		
KMI	KMI	comp=Z,380nm,15.0s	LR	LR		
VRH	Novokhoporysk	27.78 316	eP	P	03 16 15.9 +2.5	
VRH	VRH		pmax	pmax		
CHTO	Chiang Mai	28.11 118	P	P	03 16 14.6 -2.1	
CHTO	Chiang Mai	28.11 118	P	P	03 16 16.9 +0.2	
CHTO	Chiang Mai	28.11 118	P	P	03 16 20.0 +3.3	
CHTO	Chiang Mai	28.11 118	P	P	03 16 14.6 -2.1	
CHTO	CHTO		pmax	pmax		
SONM	Songino Array	28.17 52	P	P	03 16 16.5 -0.7	
SONM	Songino Array	28.17 52	P	P	03 16 18.7 +1.5	
SONM	SONM	comp=Z,1.5nm,0.4s,baz=254,slow=8.3,SNR=13	PcP	P	03 19 31.0 +0.5	
SONM	SONM	comp=Z,1.3nm,0.8s,baz=262,slow=9.2,SNR=22	LR	LR	03 29 16.1	
SONM	SONM	comp=Z,520nm,19.4s,baz=254,slow=40				
SONM	SONM	comp=Z,1.5nm,0.4s				
SONM	SONM	Songino Array	28.17 52	P	03 16 16.5 -0.7	
SONM	SONM		pmax	pmax		
PALK	Pallekele	28.31 163	LR	LR	03 27 48.8	
PALK	Pallekele	28.31 163	LR	LR		
CM31	Chiang Mai Arr	28.33 118	P	P	03 16 18.1 -0.4	
CMAR	Chiang Mai Arr	28.33 118	P	P	03 16 17.4 -1.3	
CMAR	CMAR		PcP	P	03 16 18.1 -0.6	
CMAR	Chiang Mai Arr	28.33 118	P	P	03 19 30.5 -0.7	
CMAR	Chiang Mai Arr	28.33 118	P	P	03 16 19.3 +0.6	
CMAR	CMAR	comp=Z,6.9nm,0.8s,baz=304,slow=9.1,SNR=22	PcP	PcP	03 19 31.4 +0.2	

CMAR	comp=Z,5.6nm,0.3s,baz=308,slow=1.5,SNR=7.8	ScP	ScP	03 23 11.9 +1.9	
CMAR	comp=Z,1.7nm,0.3s,baz=286,slow=2.9,SNR=6.0	LR	LR	03 30 28.1	
CMAR	comp=Z,150nm,19.8s,baz=315,slow=42				
CMAR	comp=Z,6.9nm,0.8s				
CMAR	Chiang Mai Arr	28.33 118	ceP	P	03 16 21.6 +2.9
CMAR	CMAR		pmax	pmax	
KIRV	Kirov	28.44 334	LR	LR	03 27 48.2
KIRV	Kirov	28.44 334	/P	P	03 16 20.0 +0.7
ULN	Ulanbaatar	28.61 52	P	P	03 16 17.2 -3.9
ULN	Ulanbaatar	28.61 52	eP	P	03 16 22.3 +1.2
ULN	ULN		pmax	pmax	
ANN	Anapa	28.78 301	eP	P	03 16 21.7 -0.7
ANN	ANN		eS	S	03 21 10.2 +0.2
ANN	ANN		eSS	S	03 22 37.2 +4.8
ANN	ANN		SSn	SSn	
ANN	ANN	comp=Z,21nm,0.8s			
ANN	ANN	comp=Z,549nm,15.0s	MLR	MLR	
WORD	Divnogorie	29.10 314	eP	P	03 16 25.5 +0.3
WORD	WORD		pmax	pmax	
TOKA	Tokat	29.27 292	eP	P	03 16 27.1 +0.8
VSR	Storzhevoye	29.29 315	P	P	03 16 23.9 -2.8
VSR	VSR		pmax	pmax	
XAN	Xi'an	29.71 81	P	P	03 16 36.2 +5.3
XAN	XAN	comp=Z,8.0nm,1.2s			
XAN	XAN	comp=Z,130nm,4.5s	pmax	pmax	
XAN	XAN	comp=Z,340nm,13.4s	LR	LR	
XAN	XAN	comp=Z,280nm,14.1s	LR	LR	
XAN	XAN	comp=Z,550nm,12.5s	LR	LR	
BTO	Baotou	29.87 68	eP	P	03 16 31.0 -1.3
BTO	BTO		eP	S	03 17 14.9 +0.4
BTO	BTO		S	S	03 21 25.7 -1.8
BTO	BTO		pmax	pmax	
BTO	BTO	comp=Z,26nm,0.6s			
BTO	BTO	comp=Z,110nm,3.8s	pmax	pmax	
BTO	BTO	comp=Z,110nm,3.8s	LR	LR	
BTO	BTO	comp=Z,470nm,6.1s	LR	LR	
BTO	BTO	comp=Z,290nm,7.7s	LR	LR	
ASF	Jabal al Asfar	29.97 275	LR	LR	03 29 19.7
GYA	Guiyang	30.18 97	/P	P	03 16 36.9 +1.7
GYA	GYA		pmax	pmax	
SLVN	Son La	30.39 108	P	P	03 16 37.6 +0.6
MMAI	Mount Meron Ar	30.99 278	P	P	03 16 42.7 +0.5
MMAI	MMAI	comp=Z,2.6nm,0.5s,baz=74,slow=6.2,SNR=8.3	PcP	PcP	03 19 38.7 +0.9
MMAI	MMAI		PcP	P	
HHC	Hu-ho-hao-te	31.03 67	eP	P	03 16 43.5 +0.9
HHC	HHC		pmax	pmax	
HHC	HHC	comp=Z,8.0nm,0.7s			
HHC	HHC	comp=Z,60nm,5.8s	LR	LR	
HHC	HHC	comp=Z,150nm,9.8s	LR	LR	
HHC	HHC	comp=Z,260nm,12.3s	LR	LR	
HHC	HHC	comp=Z,200nm,11.4s			
BZK	Bozkurt	31.06 295	P	P	03 16 44.5 +1.8
BZK	BZK	comp=Z,51nm,0.9s			
ENH	Enshi	31.14 88	P	P	03 16 42.9 -0.6
ENH	ENH		Iamb	Iamb	03 16 56.2
ENH	ENH	comp=Z,34nm,1.4s			
ENH	ENH	Enshi	31.14 88	P	03 16 47.4 +3.9
KIRS	Kirsehir-Merke	31.22 290	/P	P	03 16 45.3 +1.0
ILGA	Ilgaz	31.28 293	Iamb	Iamb	03 16 46.5 +1.6
ILGA	ILGA		pmax	pmax	03 16 48.1
GHAJ	Ghor Haditha	31.30 274	P	P	03 16 44.4 -0.5
BR104	Keskin Array S	31.40 291	P	P	03 16 4

12d 3h

2019 JUN

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Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like DL2, VTS, DEV, CZR, DRGR, PABE, PABU, HOLU, KOLS, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like OSTC, RONA, UPCA, UPCS, KOGS, etc.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like NOA, LODK, WTTA, WATA, LOF, etc.

Table with columns for station ID, name, coordinates, elevation, and various performance metrics (ANM, pmax, etc.). Includes stations like JMJC, MA2, SEY, etc.

12d 3h

Table with 6 columns: Station ID, Name, Elevation, Frequency, Mode, and Status. Includes stations like DBIC Dimbokro, N16K Nishilik Lake, F31M Tsigiehtchic, etc.

2019 JUN

Table with 6 columns: Station ID, Name, Elevation, Frequency, Mode, and Status. Includes stations like J29N Klondike Camp, SML Sawmill, Q16K King Salmon, etc.

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Table with 6 columns: Station ID, Name, Elevation, Frequency, Mode, and Status. Includes stations like MMPY Sheldon Lake, O28M Mount Upton, YAH Yahtse, etc.

Code Station Name Az El Op Phase ID Time Res
YJA Yavi 173 62 eP ISC Pn 02 22 44.9 +0.6
YJA Yavi 173 62 eP ISC Pn 02 22 45.1 +0.7
YJA Yavi 173 62 eS S 02 23 10.9 -0.4

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like IPOC Station P, Cafayete, IPOC Station P, etc.

WEL 12 03:24:37.41, 0.34 S, 6°18'01.13 E, h12km, M4.0/1.3, mb4.5/4, ML4.1/18, MLv4.1/13, Mw(mb)3.7/4, Error ellipse: s-maj=17.3km s-min=7.0km az=100.6, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Matakaoa Point, Waiomatatini S, Te Kaha, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Rimuhau, Murupara, Amahuta, etc.

IDC 12 03:35:48.9, 2.1, 8.66S, 128°15'E, h0km, mb3.4/1, mbtmp3.4/4, ML3.2/3, Error ellipse: s-maj=68.4km s-min=25.9km az=75.0, Timor Sea

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Fitzroy Crossi, Alice Springs, Warramunga Arr, etc.

IDC 12 04:03:08.6, 6.0, 8.04S, 155°52'E, h0km, mb3.6/3, mbtmp3.6/3, Error ellipse: s-maj=101.6km s-min=78.0km az=7.0, Bougainville-Solomon Islands region

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Warramunga Arr, Alice Springs, Stephens Creek, etc.

IDC 12 04:39:43.1, 0.7, 52°07'N, 175°01'E, h0km, mb4.4/29, mbtmp4.4/31, ML4.0/2, MS3.4/8, Error ellipse: s-maj=17.4km s-min=11.1km az=174.0

AEIC 12 04:39:45.5, 2.1, 51.82N, 0.05, 174.65E, 0.03, h47km, 6km, Error ellipse: s-maj=7.4km s-min=1.2km az=158.0 MOS 12 04:39:47.2, 1.1, 52°10'N, 174.94E, h3km, mb5.0/21, Error ellipse: s-maj=10.9km s-min=6.7km az=105.7

MEIC 12 04:39:49.2, 1.3, 52°10'N, 0.04, 174.91E, 0.04, h42km, 8km, s-min=2.8km az=159.0

ISC 12 04:39:49.0, 0.7, 52.06°N, 0.07, 174.89°E, 0.04, h40km, 5.5km, n518, 0.15/10/453, mb4.4/120, MS3.5/12, 14C-9D, Near Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Shemya Is, Ala, Little Sitkin, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, Time, Res, ISC. Includes stations like Magadan, Nanvaranak Lak, Ungalikthiuk R, etc.

Table with columns: ID, Name, Az, El, P, Q, Az, El, P, Q, Az, El, P, Q. Includes stations like G18K Tagagawik, M19K Big River Lodg, GCSA Galena City Sc, etc.

Table with columns: ID, Name, Az, El, P, Q, Az, El, P, Q, Az, El, P, Q. Includes stations like TRF Thorofare Moun, D20K Etivluk River, MLY Manley, etc.

Table with columns: ID, Name, Az, El, P, Q, Az, El, P, Q, Az, El, P, Q. Includes stations like MCARA McCarthy VSAT, F25K Christian River, J26L Joseph Creek, etc.





12d 6h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like SPITS Spitsbergen Ar, SPBZ Spitsbergen Ar, PDAR Pinedale Array, etc.

IDC 12 05:09:54.1-5.3, 21°25'S-169°76'E, h0km, mb3.3/2, mbtm3.4/3, ML3.5/1, MS3.4/1, Error ellipse: s-maj=244.6km s-min=38.1km az=154.0, Southeast of Loyalty Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like DZM Mont Dzumac, WRA Warramunga Arr, ASAR Ala-Archa, etc.

IDC 12 05:29:14.1-8.7, 19°04'S-175°67'W, h306km, 68km, mb3.1/4, mbtm3.8/5, Error ellipse: s-maj=179.4km s-min=21.4km az=152.0, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like MSVF Nonavsu, WRA Warramunga Arr, ASAR Ala-Archa, etc.

NNC 12 05:41:13.2-4.3, 36°47'N-66°75'E, h0km, mb4.4, mpv3.9, 6C-1D, Error ellipse: s-maj=51.1km s-min=32.0km az=118.0, Hindu Kush region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like KK31 Kararay Array, AAK Ala-Archa, etc.

PRE 12 05:46:34.9-0.9, 26°49'S-27°43'E, h2km, ML3.0, BUL 12 05:46:35.3-1.8, 26°46'S-27°83'E, h10km, MD3.6, BGSJ 12 05:46:35.8-1.9, 26°64'S-27°65'E, h0km, 59km, MD4.5, ML3.3

ISC 12 05:46:38.0-2.4, 36°55'S-0°04'-27°43'E, h25km, 21km, n28, c1945/45, South Africa

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like LBTB Lobatse, CRLN Carolina, Mapu, BOSA Boshof, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like SKOMA SKOMA, MREMI Moremi, KSTD Kokstad, etc.

KRNET 12 05:54:06.5-0.1, 42°29'N-80°59'E, h19km, mb4.0, SOE 12 05:54:07.7, 42°32'N-80°53'E, h19km, mb4.0, IDC 12 05:54:09.3-1.7, 42°49'N-80°32'E, h0km, mb3.7/3, mbtm3.6/8, ML3.1/5, MS2.0/1, Error ellipse: s-maj=23.4km s-min=14.0km az=142.0

NNC 12 05:54:09.9-1.0, 42°38'N-80°37'E, h0km, mb4.1, mpv3.9, Error ellipse: s-maj=6.5km s-min=5.2km az=132.0, ISC 12 05:54:10.3-1.2, 42°39'N-0°04'-80°40'E, h19km, 2km, n63, c268/91, mb3.6/3, 36C-25D, Kyrgyzstan-Xinjiang border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like SHLS Shalkode, SHLS Shalkode, etc.

PRZ Przheval'sk, PRZ Przheval'sk, SATY Saty, KURS Kuram, etc.

DJR JarKet, DJR JarKet, DJR JarKet, etc.

TARG Taragay, Kyrgy, TARG Taragay, KNOS Konyren, etc.

BLB Baldybastay, BLB Baldybastay, KDJ Kajisay, etc.

KOTS Kotyrbulak, KOTS Kotyrbulak, MDOK MDOK, etc.

ARXS Arharly, ARXS Arharly, TDK Taldyqorghan, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like KOTS Kotyrbulak, MDOK MDOK, ARXS Arharly, etc.

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Main table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like TDK Taldyqorghan, MTBS Matibue, MTBS Matibue, etc.

GCG 12 06:17:18.3-1.1, 14°21'N-91°40'W, h79km, 10km, MD3.5, ML3.4, Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like STG8 El Palmar, Qui, STG8 Sabana Grande, etc.

JAYA Jayaque - finc 1.97 106 i P Pn 06 17 50.0 +0.1

IDC 12 06:19:30.0:1.8,51.99N:175.03E,h0km,mb3.4/5, mbmp3.5/6,ML2.2/1, Error ellipse: s-maj=41.3km s-min=20.8km az=23.0

NEIC 12 06:19:32.0:0.9,51.77N:0.2:174.3E:0.3,h35km,17km, mb3.8/4, Error ellipse: s-maj=32.5km s-min=7.7km az=225.0

ISC 12 06:19:34.0:1.6,51.93N:0.2:174.7E:0.1,h29km,n20, r134/13,mb3.8/8,18,ISLAND

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like SHEM, SHEM, SMY, AMKA, PETK, F19K, J20K, STLK, IMAR, ILAR, G31M, H11N2, H11N3, H11N1, H11S1, H11S3, H11S2, SPITS, KURBB, MKAR, TXAR.

IDC 12 06:46:55.3:1.2,8.23S:117.69E,h0km,mb4.0/8, mbmp4.0/11,ML3.9/3,MS3.1/2, Error ellipse: s-maj=43.1km s-min=18.0km az=56.0

NEIC 12 06:46:57.1:1.2,8.18S:0.06:117.69E:0.05,h10km,1km, mb4.2/11, Error ellipse: s-maj=12.5km s-min=5.4km az=39.0

DJA 12 06:46:57.6:0.2,8.2S:2:11.8E, h10km,M4.5/19,mb4.9/2, ML4.2/19

ISC 12 06:46:58.8:0.5,8.20S:0.04:117.73E:0.04,h10km,n47, r120/56,mb4.3/11, Sumbawa region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like PLA1, PLA1, WBSI, SRBI, BSSI, BASI, ABJI, JAGI, BKSI, KAPI, KAPI, KMMI, EDFI, GMIJ, BNSI, MMRI, SPSI, GRJI, TTSI, FITZ, FITZ, MBWA, MTN, FAKI, WBO, WRA, WRAB, WR8, MORW, AS31, ASAR, COEN, CMAR, KSRS, XLT, USRK, SONM, SONM, MKAR.

MKAR Makanchi Array 63.18 333 P P 06 57 24.8 -0.3

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like MKAR, KURBB, ZALV, AB31, AB31, ABKAR, SNA.

RSNC 12 06:52:36.6:0.0,8.1N:1.7:74W, h47km,7km,M2.6,mb3.5, mb4.5,ML2.3,Mw(mb)3.6,Northern Colombia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like VMM05, VMM07, ZARC, AGCC, EZNF, BRJC, VMM09, VMM10, UREC, PTBC, PAMC, BARC, ARG, ARGC, SJCC, SJCC, LCB, LCB, SPBC, SPBC, APAC, RUSC, RUSC, NORC, TAMC, GUYA, SMRC, SMRC, CRJC, CRJC, SDV, ORTC, ORTC, PRAC, PRAC, URIB, URIB, URIC, MACC, MACC.

SDD 12 07:24:24.9:2.3,19.48N:69.81W,h16km,8km,MD3.2, ML2.7,MW3.1

OSPL 12 07:24:25.9:2.7,19.58N:69.84W,h6km,12km,ML2.5, ISC 12 07:24:24.2:0.9,19.48N:0.03:69.83W:0.03,h14km,5km, n22,r149/38,SC-1D,Dominican Republic region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like LONA1, LONA1, LONA1, NADR, NADR, NADR, NAGI, NAGI, CADR, CADR, CADR, SC01, SC01, SC01, MIDR, MIDR, MIDR, ABDR, ABDR, ABDR, LUDR, LUDR, LUDR, BANI, BANI, BANI, MADR, MADR, MADR, HIDR, HIDR, HIDR, SDDR, SDDR, SDDR, PODR, PODR, PODR, LOUVI, LOUVI, LOUVI, GRTK, GRTK, PAPH, CRPR, CRPR.

IDC 12 07:31:20.9:1.9,63.94N:28.11E,h0km,mbmp2.6/2, ML1.7/2, Error ellipse: s-maj=45.1km s-min=10.6km az=96.0

HEL 12 07:31:20.1:0.0,63.94N:28.11E,h0km,ML1.4,Explosion ISC 12 07:31:18.0:0.6,63.96N:0.03:28.10E:0.04,h0km,n17, r084/22,Finland

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like NIF, NIF, RMF, RMF, RUF, RUF, OBF4, OBF4, KUI, KUI, OBF0, JOF, JOF, JOF, JOF, KAF, KAF, RANF, KUF6, KUF6, KEF, KEF, FIAO, FIAO, FINES, FINES, ARCES, ARCES, I37NO, I37NO.

SJA 12 07:34:43.0:0.7,31.09S:71.99W,h13km,4km,ML3.5, MW3.5

GUC 12 07:34:47.8:0.5,31.14S:71.68W,h29km,4km,ML3.3, ISC 12 07:34:42.7:1.8,31.08S:0.03:72.00W:0.08,h4km,13km, n34,r170/38,Near coast of central Chile

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC, h, m, s, ISC. Includes stations like CO06, CO06, CO06, CO02, CO02, CO02, CO02, CO03, CO03, CO05, CO05, G004, G004, G004, VA06, VA06, CO01, CO01, CO01, VA03, VA03, MT02, MT02, LCO, LCO, LCO, RTLS, RTLS, DOCA, DOCA, MT05, MT05, FCH, FCH, MT04, MT04, MT01, MT01, MT01, MT08, MT08, AC04, AC04, BO04, BO04, BO01, BO01, BO02, BO02.

NEIC 12 07:36:17.2:0.0,9.37S:24S:0.06:74.37W:0.03,h27km,8km, mb4.3/6,ML3.9(GUC), Error ellipse: s-maj=8.9km s-min=3.0km az=193.0

GUC 12 07:36:17.4:0.6,37.38S:74.19W,h23km,4km,ML4.0, ISC 12 07:36:13.3:1.8,37.33S:0.04:74.39W:0.08,h7km,11km, n38,r185/44,mb4.2/3,1C,Off coast of central Chile

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

SJA 12 08:02:21.9,0.6,31.05S:72.09W,h15km,ML3.7,MW3.7
GUC 12 08:02:27.2,0.6,31.13S:71.72W,h34km,2km,ML3.6
ISC 12 08:02:24.1,1.6,31.09S:0.02:71.91W,0.05,h9km,11km,
n45,1970/71,1.6,Near coast of central Chile

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

VA01 Torpederas 1.94 174 eP Pn 08 02 58.5 +1.1
ROCH El Roble 2.03 158 IAML I 08 03 27.9

VA03 San Esteban 2.03 146 eP Pn 08 02 59.5 +0.8
VA03 San Esteban 2.03 146 eS Sb 08 02 58.9 +0.2

MT02 Curacav 2.26 163 eP Pn 08 03 02.4 +0.6
MT02 Curacav 2.26 163 eS Sb 08 03 01.8 +0.0

VA05 Santo Domingo 2.58 175 eP Pn 08 03 07.3 +1.3
VA05 Santo Domingo 2.58 175 eS Sb 08 03 09.1 +0.2

VA05 Las Campanas 2.32 271 eP Pn 08 03 03.9 +1.2
VA05 Las Campanas 2.32 27 eS Sb 08 03 03.9 +1.2

VA05 Reserva Natura 2.43 88 eS Sb 08 03 06.2 +1.8
DOCA Reserva Natura 2.43 88 eP Pn 08 03 38.7 +0.3

MT10 Hacienda Santa 2.47 152 eP Pn 08 03 05.3 +0.6
MT10 Hacienda Santa 2.47 152 eS Sb 08 03 42.8

VA05 Cerro Coronel 2.49 79 eP Pn 08 03 07.4 +2.2
VA05 Cerro Coronel 2.49 79 eS Sb 08 03 46.9 +2.7

VA05 Renca 2.50 157 eP Pn 08 03 06.1 +1.0
VA05 Renca 2.50 157 eS Sb 08 03 33.4 +2.4

VA05 Santo Domingo 2.58 175 eP Pn 08 03 07.3 +1.3
VA05 Santo Domingo 2.58 175 eS Sb 08 03 09.1 +0.2

FCH Farellones 2.62 149 eP Pn 08 03 08.0 +1.0
FCH Farellones 2.62 149 eS Sb 08 03 48.4

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

IDC 12 08:17:50.1,1.7,2.26S:119.85E,h0km,mb3.3/3,
mbmp3.4/4,ML3.6/1,MS2/2/1,Error ellipse: s-maj=63.5km
s-min=24.4km az=71.0
DJA 12 08:17:52.3,0.3,2.2S:2.19E,h10km,M3.8/11,
ML3.8/11

ISC 12 08:17:52.0,1.1,2.34S:0.04:119.4E,0.1,h10km,n13,
120/17,mb3.4/3,Sulawesi

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

AFAD 12 08:43:53.7,0.406N:41.46E,h7km,2km,ML1.0,Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

TIF 12 08:44:32.4,41.78N:43.15E,h11km
MOS 12 08:44:33.5,41.78N:43.05E,h1km,MPVA4.1
NORS 12 08:44:33.3,41.92N:43.03E,h3km,MPVA4.1
ISK 12 08:44:33.3,41.91N:43.12E,h22km,ML3.2/8

ISC 12 08:44:33.1,0.7,41.76N:0.02:43.13E,0.01,h10km,n99,
1166/172,1D,Turkey-Georgia-Armenia border region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Resolution, Elevation Resolution, Azimuth Smoothing, Elevation Smoothing, Azimuth Filtering, Elevation Filtering, Azimuth Delay, Elevation Delay, Azimuth Bandwidth, Elevation Bandwidth, Azimuth Noise, Elevation Noise, Azimuth Interference, Elevation Interference, Azimuth Sensitivity, Elevation Sensitivity, Azimuth Dynamic Range, Elevation Dynamic Range, Azimuth Linearity, Elevation Linearity, Azimuth Hysteresis, Elevation Hysteresis, Azimuth Drift, Elevation Drift, Azimuth Stability, Elevation Stability, Azimuth Reliability, Elevation Reliability.

KOPR Kopruyok-ERZUS 2.02 209 Pn Pp 08 05 08.9 -1.0
GNI Garmir 2.02 142 Pn Pp 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1

GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1
GNI Garmir 2.02 142 eS Sb 08 05 08.9 -1.1
GNI Garmir 2.02 142 eP Pn 08 05 08.9 -1.1

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like TRI.LG, GARI.G, KZRT, BATM, etc.

SOME 12 08:49:18.6, 44.67N, 82.43E, h30km
NCC 12 08:49:22.1, 1.6, 44.78N, 81.91E, h0km, mb3.5, mpv3.3,
Error ellipse: s-maj=23.1km s-min=4.1km az=118.0,
Suspected Mining explosion.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like DJR, KTMS, MK31, MAK2, etc.

AFAD 12 08:49:59.5, 39.13N, 27.71E, h7km, 3km, ML1.6, Turkey

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like BALIKESIR\_Sava, STEP, etc.

ISK 12 08:50:25.2, 37.26N, 27.87E, h26km, ML1.47, Turkey

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like MLSB, BODT, ECOT, etc.

NOU 12 08:54:00.9, 36.97S, 179.92E, h0km, MLV4.2/11, Off E.
Coast of N. Island, N.Z.
IDC 12 08:54:06.1, 3.4, 36.64S, 179.14E, h0km, mb3.9/2,
mbtmp3.9, ML3.9/1, Error ellipse: s-maj=75.4km

s-min=43.4km az=122.0
NEIC 12 08:54:07.2, 1.2, 37.0S, 0.1, 179.29E, h10km, 1km,
mb4.2/4, Error ellipse: s-maj=23.8km s-min=8.7km
az=17.0
WEL 12 08:54:09.1, 0.7, 37.54S, 17.9E, h12km, M3.6/30,
ML3.9/31, MLV3.6/30, Error ellipse: s-maj=7.5km
s-min=5.2km az=115.7, confirmed

ISC 12 08:54:06.3, 2.1, 37.06S, 0.05, 179.42E, h0km, gkm,
n110, 01s68/150, mb4.0/4, Off east coast of North Island

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like MXZ, WNGZ, PKGZ, etc.

ISC 12 09:13:18.5, 0.9, 3.45S, 0.1, 102.8W, 0.1, h10km, n169,
01s01/90, mb4.3/70, MS3.9/46, Central East Pacific Rise

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like ASAR, WRB, WRA, etc.

IDC 12 09:13:15.2, 1.1, 3.62S, 103.16W, h0km, mb3.7/8,
mbtmp3.7/8, MS3.9/45, Error ellipse: s-maj=51.6km
s-min=19.4km az=57.0
GCMT 12 09:13:19.2, 0.4, 3.65S, 0.02, 102.98W, 0.02, h13km, 2km,
MW4.8/33, Moment Tensor Solution, s15, c18, s83, c107,
Duration: 0 Moment tensor: Scale 1019Nn, Mr=0.15, 0.07,
T 1.7640, Plg10.0000, Azm324.0000; N -0.0620,
Plg70.0000, Azm83.0000; P -1.7020, Plg17.0000,
Azm231.0000; nsta1 refers to surface waves, cutoff=40s.
nsta2 refers to surface waves, cutoff=50s. Triangular
moment-rater function

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries like HUEH, JOTS, SCS, etc.

Table of astronomical data for 12d 9h, listing objects like X18A, SMWD, Y14A, X16A, etc., with columns for name, magnitude, position, and other parameters.

Table of astronomical data for 2019 JUN, listing objects like PMSA, FRB, KDAD, INK, ILAR, RES, SFJD, URZ, RPZ, SHERM, BORG, SNA, H1N1, H1N2, H1N1, H1S2, H1S1, H1S3, JMC, JNR, DBIC, PETK, MDT, ESDC, SPITS, SEY, WRA, KURB, MKAR, PZH, CMAR, etc., with columns for name, magnitude, position, and other parameters.

Table of astronomical data for 2019 JUN, listing objects like SSSLB, SSSLB, YM01, GDXH, KHI, WHT, WHP, YM08, WZC, ZUCS, SMLT, Donghe, LIOB, Emei, YUCH, NYTC, NYTC, TWY, JIU, ELDTW, LDUT, TWQ1, ALS, ALS, WJS, WJS, NSY, LONT, NMLH, WNT, WNT, PCYT, TCU, JISG, JISG, TWGB, TWGB, TWG, WCHH, WCHI, WCKO, WDL, TPUB, TPUB, WTP, WTP, WTK, CHY, CHN1, CHN1, HSNY, ECI, SNST, JTJ, WSL, WSL, MSBT, MSBT, WRA, WRA, ASAR, ASAR, etc., with columns for name, magnitude, position, and other parameters.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like DSJ Dead Sea, YTR Yattir, PRN Paran, etc.

HEL 12 09:29:14.5:0.4,67.18N:20.67E, h0km, ML1.1, Suspected explosion
UPP 12 09:29:13.8:0.0,67.18N:20.68E, h0km, ML1.8, Confirmed Induced event, Sweden

Main table for Sweden stations. Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like DUNU Dundret, MASU Masugusbyn, RATU Laukkulusta, etc.

HEL 12 09:29:50.1:0.1,61.74N:22.40E, h0km, ML1.1, Explosion, Finland

Main table for Finland stations. Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KPF Kankaanpaa, RAF Rauma, etc.

IGQ 12 09:32:39.5:0.2,3.1S:1.8\*0W, h26km,2km, MLV3.6/29
ISC 12 09:32:39.6:1.3,2.60S:0.03:79.64W:0.03, h30km,12km, n74, c:1512/85, 15C-9D, Near coast of Ecuador

Main table for Ecuador stations. Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like COHC Cochancay, GYEG Ecuador-Guayaq, etc.

Main table for Chile stations. Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PECV Mancha de Ca P, ISPT Isla de la Pla, etc.

RSNC 12 09:42:15.4:0.0,13.1N:1.8\*1W, h1km,1km, M2.8, mb3.7, ML2.8, MwMwp4.7, Mwps0.0, Caribbean Sea

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PRVC Isla de Provid, SAIC Isla e San And, etc.

IDC 12 09:45:05.7:1.2,5.549S:126.77W, h0km, mb3.8/4, mbtmp3.8/4, MS3.5/2, Error ellipse: s-maj=103.8km s-min=29.1km az=156.0, Southern East Pacific Rise

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PMSA Palmer Station, H03S2 Juan Fernandez, etc.

IDC 12 09:49:07.7:7.3,15.665S:177.02W, h0km, mb4.1/3, mbtmp4.1/3, ML4.4/1, Error ellipse: s-maj=193.9km s-min=111.0km az=140.0, Fiji Islands region

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MSVF Nonavsu, STKA Stephens Creek, etc.

SOME 12 10:24:30.9,44.38N:83.15E, h10km
NMC 12 10:24:31.2:2.0,44.26N:83.16E, h0km, mb3.6, mpv3.5, Error ellipse: s-maj=16.7km, s-min=4.6km, az=120.0

ISC 12 10:24:32.7:1.7,44.38N:0.08:83.13E:0.09, h17km, n14, c:1562/20, SC, Northern Xinjiang

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KTMS Ketmen, DJR Jarkent, etc.

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MK31 Zaisan, MAK2 Makanchi, etc.

STR 12 10:25:47.5:2.5,45.1N:4.4\*1.4, h0km, MLV0.3/3, Error ellipse: s-maj=0.0km s-min=0.0km az=94.8, preliminary, France

Main table for France stations. Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like GRN Grenoble.

BUI 12 10:35:00.7,37.89N:142.26E, h45km, mb4.7/10, mb4.6/36, Ms3.6/2, Ms7.3/6/3

IDC 12 10:35:00.8:0.6,38.19N:141.71E, h0km, mb4.2/22, mbtmp4.1/26, ML3.7/4, MS3.3/15, Error ellipse: s-maj=16.6km s-min=15.2km az=79.0

MOS 12 10:35:05.8:0.9,38.27N:141.70E, h47km, mb4.8/24, Error ellipse: s-maj=9.3km s-min=5.6km az=106.2

NEIC 12 10:35:08.7:1.4,38.27N:0.05:141.61E:0.07, h51km,7km, mb4.5/39, Mw1.4/2.15, Error ellipse: s-maj=9.0km s-min=7.1km az=126.0, Moment Tensor Solution

JMA 12 10:35:08.0:0.1,38.2N:0.4:141.7E:0.6, h50km, MD4.2/40, Mw4.3/40, KINKAZAN REGION

NEIC 12 10:35:08.8,38.26N:141.60E, h51km, NIED 12 10:35:08.0,38.23N:141.70E, h50km, MW4.2, Moment Tensor Solution

IRF 12 10:35:08.0,38.23N:141.70E, h50km, Moment Tensor Solution. Scale 1015Nm; Mr:1.17; Ms0.024; Mw:1.41; Mw0.56; Mw0.22; Mw1.71; Fault plane solution: M2:24000\*1015 Np1:1013.36000\*1; 873.18000\*1; 7.105.32000\*1. NP2:149.93000\*1; 822.60000\*1; 4.8.85000\*1

ISC 12 10:35:08.0:0.05:141.75E:0.05, h51km,4km, Near east coast of eastern Honshu

Main table for Chile stations (continued). Columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JIKH Ishinomakikobu, JIKH Ishinomakikobu, etc.



MAPS Pakushin South 3.21 265 Pn Pn 10 48 28.5 -0.1
O14K Tigykaukvet M 5.07 2 Pn Pn 10 48 54.6 +0.5
O14K comp=E,3.1nm,1.1s IAML 10 51 48.8
O15K Ungalikthiuk R 5.08 10 Pn Pn 10 48 54.4 +0.5
O15K comp=N,3.9nm,1.2s IAML 10 50 35.7
O15K comp=E,2.5nm,1.1s IAML 10 52 15.7
P16K Nushagak River 5.23 21 Pn Pn 10 48 56.2 0.0
N14K Kusokwak Cree 7.54 359 Pn Pn 10 49 03.3 0.0
N15K Kethliuk River 6.04 7 Pn Pn 10 49 07.5 +0.1
M14K Bethel 6.58 358 Pn Pn 10 49 17.3 -0.4

JMA 12 11:10:51.1-0.4, 33.1N-0.9-14.2E, h17km, MV3.5/3.0, E
OFF HACHIOJIMA ISLAND
IDC 12 11:10:52.7-1.1, 32.65N-140.52E, h0km, mb3.8/9,
mbmp3.7/11, ML2.9/2, MS3.3/4, Error ellipse:
s-maj=38.4km s-min=18.2km az=70.0

ISC 12 11:10:53.7-1.2, 33.16N-0.07-141.9E, 0.1, h40km, n27,
e119.07n, mb3.8/9, MS3.3/3, Off east coast of Honshu

Code Station Name Az Az' Phase ID Time Res
BSO1 Boso 1.68 332 eP Pn 11 11 19.4 -0.7
BSO1 Boso 1.68 332 eP Ss 11 11 41.1 +1.0
JHJ2 Mitsune 1.76 269 eP Pn 11 11 20.7 -1.0
JHCJ Hachiojimakas 1.78 268 eP Pn 11 11 20.4 -1.6
BSO3 Boso 3.01 325 eP Pn 11 11 24.0 -0.8
BSO3 Boso 3.01 325 eP Ss 11 11 47.8 0.0
JMYK Miyake Tsubota 2.17 295 eP Pn 11 11 26.1 -1.2
JMYK Miyake Tsubota 2.17 295 eP Ss 11 11 52.8 -0.2
BSO4 Boso 2.25 325 eP Pn 11 11 28.2 -0.1
JOD2 Odawara 2.34 313 eP Pn 11 11 39.4 -1.4
JYT Yasatsuki 3.37 336 P Pn 11 11 43.7 -0.1
JHO Hitachi 3.61 342 eP Ss 11 11 45.4 -1.7
JHO Hitachi 3.61 342 eP Ss 11 12 26.8 -1.8
JYN Shimob 3.63 311 eP Ss 11 11 47.0 -0.5
JYN Shimob 3.63 311 eP Ss 11 12 29.8 +0.4
JRY Ryogami san 3.78 320 eP Ss 11 11 48.6 -0.7
JRY Ryogami san 3.78 320 eP Ss 11 12 33.8 +1.1
JAG Ashikaga 3.83 329 eP Pn 11 11 49.3 -0.9
MJAR Matsushiro Arr 4.54 319 P Pn 11 11 59.6 -0.4
MJAR Matsushiro Arr 4.54 319 P Ss 11 12 50.3 -1.3
ASAJ Asahikawa 10.95 3 Pn Pn 11 13 25.4 -2.3
KSRS Korea Array 12.21 294 P Pn 11 13 35.2 -1.0
KLR Kul'dur 17.75 338 LR LR 11 22 24.2
SHEM Shemya Is, Ala 30.40 4 LR LR 11 27 53.1
SONM Songoing Array 30.43 309 P P 11 17 02.2 -0.1
SONM Songoing Array 30.43 309 P LR 11 30 46.4
ZALV Zalesovo Beam 44.89 315 P P 11 19 05.6 +1.5
MKAR Makanchi Array 46.61 305 P P 11 19 17.9 +0.1
KURBB Kurchatov Arra 48.77 311 P P 11 19 34.6 +0.1
ILAR Eielson Array 52.57 31 P P 11 20 15.2 +1.2
WRA Warramunga Arr 53.30 189 P P 11 20 08.7 -0.1
BVAR Borovoye Array 53.53 315 P P 11 20 11.4 +1.2
ASAR Alice Springs 57.03 189 P P 11 20 35.2 -0.3
AKASG Malin Array Be 77.62 323 LR LR 11 58 57.3
BRTR Keskin Array B 81.74 312 P P 11 23 09.8 +1.4

KRNET 12 11:28:13.7-0.1, 39.56N-79.01E, mb3.1
SOME 12 11:28:18.6, 41.00N-80.07E, h15km
NNC 12 11:28:19.7-1.7, 40.99N-80.01E, h0km, mb3.7, mpv3.4,
Error ellipse: s-maj=14.5km s-min=11.0km az=74.0

ISC 12 11:28:16.5-2.8, 40.9N-0.1-80.17E, 0.09, h10km, n15,
e149/21, 5C-7D, Southern Xinjiang

Code Station Name Az Az' Phase ID Time Res
TARG Taragay, Kyrgy 1.94 293 eP Pn 11 29 19.8 +0.7
PRZ Przheval'sk 2.03 320 eP Pg 11 29 00.0 +0.6
SHLS Shalkode 2.27 347 Pg Pg 11 29 00.2 +0.1
SHLS Shalkode 2.27 347 eP Pg 11 29 30.5
SHLS Shalkode 2.27 347 eP Pg 11 29 00.2 +0.1
SHLS Shalkode 2.27 347 eP Pg 11 29 29.9 +0.3
UZB Uzynbulak 2.36 339 P P 11 29 01.8 0.0
PDGK Podgornoye 2.44 348 eP Pg 11 29 02.4 +1.9
SATY Saty 2.49 329 Pg Pg 11 29 03.4 -0.8
KTM5 Ketmen 2.50 3 Pg Pg 11 29 04.3 -0.2
KTM5 Ketmen 2.50 3 eP Pg 11 29 04.3 -0.2
KTM5 Ketmen 2.50 3 eS Pg 11 29 37.4 +0.4
KDJ Kjisay 2.54 299 eP Ss 11 28 59.4 +1.5
KPKS Kokpek 2.75 337 Pg Pg 11 29 08.5 -0.7
ULHL Ulahol 3.22 295 eP Ss 11 29 06.2 -1.1
BLB Baldybastay 3.39 339 Pg Pg 11 29 20.2 -1.2
BOOM Boomsokye usch 3.52 297 eP Pn 11 29 11.0 -0.4
ARXS Arharly 3.70 333 Pg Pg 11 29 25.5 -1.8

IDC 12 12:21:37.5-0.9, 58.47S-24.66W, h0km, mb4.3/6,
mbmp4.2/7, ML4.1/1, MS3.6/10, Error ellipse:
s-maj=33.3km s-min=26.8km az=89.0
ISC 12 12:21:39.1-0.8, 58.58S-24.10-24.5W, 0.2, h10km, n28,
e265/17, mb4.0/5, MS3.8/9, 5C-1D, South Sandwich
Islands region

Code Station Name Az Az' Phase ID Time Res
VNA1 Neumayer-Stat 13.84 157 eP Pn 12 24 57.8 +2.8
VNA3 Neumayer Olymp 14.05 160 eP Pn 12 24 59.9 +1.9

VNA3 comp=Z,0.4nm,0.2s 12 27 29.5 -4.3
VNA2 Neumayer-Watz 14.23 157 eP Ss 12 25 02.4 +2.1
SNA4 Sanae 15.77 155 Pn Pn 12 25 23.8 +2.8
SNA4 Sanae 15.77 155 Pn Pn 12 25 23.9 +2.9
SNA4 Sanae 15.77 155 Pn Pn 12 28 09.7 -5.9
SNA4 Sanae 15.77 155 Pn Pn 12 30 10.9
PMSA Palmer Station 19.45 235 LR LR 12 31 47.5
PLCA Paso Flores 39.92 281 LR LR 12 41 49.8
CPUP Villa Florida 39.61 310 LR LR 12 44 34.2
VANDA Vanda 44.04 162 P P 12 29 47.9 +1.7
H04S2 CROZET ISLANDS 45.22 110 T T 13 20 19.5
H04S3 CROZET ISLANDS 45.23 110 T T 13 20 29.1
H04S1 CROZET ISLANDS 45.24 110 T T 13 20 29.9
BOSA Boshof 45.32 71 P P 12 29 57.5 +0.4
LBTB Lobatse 48.48 68 LR LR 12 47 00.4
H10N1 ASCENSION HYDR51.26 13 T T 13 26 28.7
H10N3 ASCENSION HYDR51.26 13 T T 13 26 16.8
H10N2 ASCENSION HYDR51.27 13 T T 13 26 29.6
LPAZ La Paz 53.05 304 P P 12 30 56.0 -1.0
LSZ La Paz 53.05 304 P LR 12 54 31.5
DBIC Dimbokro 66.99 21 LR LR 12 54 01.6
TORD Torodi Arr. Bea 74.66 26 P P 12 33 18.3 -0.2
RPZ Rata Peaks 77.19 191 LR LR 13 07 01.1
ASAR Alice Springs 96.06 160 P P 12 35 06.4 -0.3
KEST Kesra 98.17 27 P P 12 35 14.7 -1.1
YKA Yellowknife Arr 139.06 315 PKP PKPdf 12 41 03.6 -0.7
SONM Songoing Array 149.37 89 PKPb PKPbc 12 41 26.7 -0.6
ILAR Eielson Array 152.90 307 PKPb PKPbc 12 41 34.0 -0.9

IDC 12 12:50:53.3-1.2, 36.29N-77.11E, h0km, mb4.0/6,
mbmp3.9/12, ML3.8/5, Error ellipse: s-maj=32.6km
s-min=16.7km az=54.0
NNC 12 12:51:06.4-4.0, 37.01N-77.46E, h0km, mb4.1, mpv3.7,
Error ellipse: s-maj=30.5km s-min=23.9km az=176.0

ISC 12 12:51:03.7-0.7, 36.52N-0.06-77.64E, 0.09, h96km, n26,
e236/39, mb3.9/7, 7C-4D, Kashmir-Xinjiang border

Code Station Name Az Az' Phase ID Time Res
AAK Ala-Archa 6.58 339 Op Pn 12 52 39.0 +1.1
AAK Ala-Archa 6.58 339 Ss Sn 12 53 50.2 -1.3
AAK Ala-Archa 6.58 339 P P 12 52 38.8 +0.9
AAK Ala-Archa 6.58 339 eP Ss 12 53 49.8 -1.6
TKM2 Tokmak 2 6.59 347 eP Pn 12 52 39.1 +1.0
TKM2 Tokmak 2 6.59 347 eP Ss 12 53 50.4 -1.4
PDGK Podgornoye 6.95 11 eP Ss 12 52 44.6 +1.6
PDGK Podgornoye 6.95 11 eP Ss 12 54 00.6 0.0
KK31 Karatay Array 8.56 322 P Pn 12 53 03.4 -1.4
KYK1 Karatay Array 8.56 322 P Ss 12 54 35.2 -4.4
PYUN Pyuthan 9.53 150 Pn Pn 12 53 19.3 +1.0
DANN Dangsing 9.64 146 Pn Pn 12 53 20.2 +0.3
DANN Dangsing 9.64 146 Pn Ss 12 55 02.4 -4.1
GKN Gorkha 10.35 143 Pn Pn 12 53 30.1 +0.8
GKN Gorkha 10.35 143 Pn Ss 12 55 18.9 -4.6
MAK2 Makanchi 10.78 16 eP Pn 12 53 35.7 +0.7
MAK2 Makanchi 10.78 16 eP Ss 12 55 31.2 -2.4
MK31 Makanchi Array 10.84 17 eP Pn 12 53 35.8 0.0
MK31 Makanchi Array 10.84 17 eP Ss 12 55 32.5 -2.5
MK31 Makanchi Array 10.84 17 Pn Pn 12 53 36.1 +0.4
MKAR Makanchi Array 10.84 17 Pn Ss 12 55 29.8 -5.2
DMN Daman 10.90 142 Pn Pn 12 53 38.8 +1.8
DMN Daman 10.90 142 Pn Ss 12 55 33.8 -3.3
GUN Gumba 11.05 139 Pn Pn 12 53 39.5 +0.4
PKIN Pulchok 11.07 141 Pn Pn 12 53 40.3 +1.0
PKI Pulchok 11.09 141 Pn Pn 12 53 39.9 +0.4
RAMM Ramite 12.21 139 Pn Pn 12 53 53.9 -0.5
RAMM Ramite 12.21 139 Pn Ss 12 56 04.6 -4.1
KURBB Kurchatov Arra 14.12 12 Pn Pn 12 54 17.9 -1.2
BVAR Borovoye Array 17.27 345 P Pn 12 54 58.1 -0.6
ZALV Zalesovo Beam 18.13 14 P Pn 12 55 08.5 -0.5
AKTO Aktyubinsk 19.82 312 P P 12 55 25.1 -1.5
SONM Songoing Array 23.99 53 P P 12 56 14.0 +4.7
CMAR Chiang Mai Arr 25.99 128 P P 12 56 30.2 +2.6
FINES Fines Array 40.52 325 P P 12 58 33.1 +0.2
ARCES ARCES Array B 43.24 336 P P 12 58 55.3 +0.3
HFS Hagfors 46.37 322 P P 12 59 17.7 -0.2

0.6nm,0.4s
WRA Warramunga Arr 77.57 126 P P 13 02 52.5 +3.1

KRSC 12 13:05:50.9-2.6, 49.36N-156.87E, h15km, 36km, MI3.9,
Kuril Islands
Code Station Name Az Az' Phase ID Time Res
SKR Severo-Kuril's 1.42 340 eP Pn 13 06 14.7 -1.3
PAU Pauzhetka 2.12 359 eP Pn 13 06 44.4 +3.2
KDRT Khodutka, Kamc 2.57 17 eS Sb 13 06 53.5 -1.4
ASAK Asaha 3.10 12 eP Ss 13 07 07.3 -0.8
MUTR Mutnovka 3.24 14 eP Pn 13 06 42.7 -3.1
GRL Gorelyy 3.29 13 eP Pn 13 06 45.4 +3.5
DALK Dalny 3.87 17 eP Pn 13 06 53.5 +3.7
UGLR Uglovaya 4.05 17 eP Pn 13 06 56.6 +4.3
AVH Avchaha 4.09 16 eP Pn 13 06 57.4 +4.5
KOK Koryaka 4.05 15 eP Pn 13 06 57.6 +4.6
SMAR Somma 4.10 16 eP Pn 13 07 07.7 +4.7
SDLR Sedlovina 4.13 17 eP Pn 13 06 56.9 +3.5
KRX Arik 4.16 15 eP Pn 13 06 58.6 +4.6
SPN Mys Shipunski 4.24 27 eP Pn 13 06 58.5 +3.6
GNL Ganaly 4.40 8 eP Pn 13 07 00.2 +3.1
MKZ Mys Kozlova 6.01 28 P Pn 13 07 22.1 +3.0

IDC 12 13:27:09.2-1.4, 26.97S-179.91W, h465km, 15km, mb3.4/6,
mbmp4.2/9, Error ellipse: s-maj=22.0km s-min=18.7km
az=160.0

NEIC 12 13:27:09.3-1.2, 26.92S-0.02-179.8W, 0.2, h468km, 8km,
mb4.3/20, Error ellipse: s-maj=21.7km s-min=25.6km
az=97.0

ISC 12 13:27:08.9-0.6, 27.02S-0.08-179.8W, 0.1, h468km, n40,
e099/41, mb4.3/16, Kermadec Islands region

Code Station Name Az Az' Phase ID Time Res
RAO Raoul Island 2.79 143 P P 13 28 16.4 +0.5
RAO Raoul Island 2.79 143 P P 13 28 17.0 +1.2
MSVF Nonsavu 9.45 348 P P 13 29 18.5 -1.8
URZ Urewera 11.50 192 P P 13 29 41.0 -1.1
URZ Urewera 11.50 192 P S 13 31 44.8 -3.5
HIZ Hauti 12.30 200 P P 13 29 52.2 +1.5
DZM Mont Dzumac 13.42 289 P P 13 30 03.1 0.0
DZM Mont Dzumac 13.42 289 P P 13 30 04.3 +1.2
ORZ Quartz Range 15.15 203 P P 13 30 20.6 -0.5
ARMA Armidale 25.23 256 P Iamb Iamb 13 31 57.7 +1.3
EIDS Eidsvoild 26.13 267 P Iamb Iamb 13 32 05.2 +0.8
CTAO Charters Tower 31.77 275 P Iamb Iamb 13 32 54.6 +0.8
STKA Stephens Creek 33.81 252 P P 13 33 11.4 +0.4
COEN Coen 36.86 283 P Iamb Iamb 13 33 37.0 +0.3
BBOO Buckleboe 38.45 250 P Iamb Iamb 13 33 49.0 -0.5

AS31 Alice Springs 41.77 264 P P 13 34 16.3 -0.1
ASAR Alice Springs 41.77 264 P P 13 34 16.3 -0.1

WRAB Tennant Creek 42.43 269 P P 13 34 21.2 -0.4
WRA Warramunga Arr 42.44 269 P P 13 34 21.2 -0.5

MTN Manton Dam 47.92 277 P P 13 35 03.6 -0.3
KNRA Kununurra 48.90 272 P Iamb Iamb 13 35 52.7
FAKI Fak Fak 51.69 289 P P 13 35 31.8 0.0
TOLJ Toljok 63.54 286 P P 13 36 53.0 +0.1
BELA Belrajo 73.33 173 P P 13 37 52.1 +0.6
JMM Marumori 74.36 329 P P 13 37 56.5 -1.3
MAJO Matsushiro 74.55 326 P P 13 37 59.1 +0.1

PEA0B Petropavlovsk- 82.16 347 P Iamb Iamb 13 38 39.6 +0.1
PETK Petropavlovsk- 82.16 347 P P 13 38 39.5 0.0
NVAR Mina Array Bea 86.89 44 P P 13 39 04.8 +1.4

E03A Lebam 89.14 35 P P 13 39 11.4 -2.0
NO303 NORARS Array S 144.97 351 PKP PKPdf PKPdf 13 45 51.8 +0.3
NOA NORARS Array S 145.17 351 PKP PKPdf PKPdf 13 45 51.0 -0.8
HFS Hagfors 145.62 348 PKPb PKP PKPdf 13 45 53.4 +0.8

AKASG Malin Array Be 147.63 325 PKPb PKP PKPbc 13 45 59.7 0.0
TORD Torodi Arr. Bea 166.12 186 PKPb PKPb 13 47 24.6 +0.8

IDC 12 13:43:19.9-2.5, 15.78S-178.42W, h465km, 32km,
mb2.9/k, mbtmp3.7/4, Error ellipse: s-maj=216.2km
s-min=29.4km az=159.0, Fiji Islands region

Code Station Name Az Az' Phase ID Time Res
MSVF Nonsavu 3.90 240 P P 13 44 35.3 0.0
WRA Warramunga Arr 45.04 257 P P 13 50 52.9 -0.5
ASAR Alice Springs 45.39 252 P P 13 50 56.2 +0.2
ASAR Alice Springs 45.39 252 P P 13 52 25.8 -0.2
TXAR Lajlitas Array 84.87 58 P P 13 55 05.4 +0.1
BRTR Keskin Array B 143.25 317 PKP PKPdf 14 01 60.0 -1.0

SNET 12 14:04:11.7-0.9, 13.06N-89.47W, h45km, 10km, ML3.3
CATAC 12 14:04:11.9, 0.6, 13.1N-4.8 W, h28km, 3km, MS3/20,
MLV3.5/20, Error ellipse: s-maj=8.0km s-min=3.9km
az=18.7, confirmed

CGC 12 14:04:12.3-0.5, 13.12N-89.50W, h47km, 8km, MD3.6,
ML3.7

ISC 12 14:04:12.6-1.5, 13.10N-0.07-89.40W, 0.04, h26km, 12km,
n69, e092/82, El Salvador

Code Station Name Az Az' Phase ID Time Res
LALI Alcalda de L 0.40 11 iP Pn 14 04 22.4 -0.3
LALI Alcalda de L 0.40 11 iS Ss 14 04 29.6 +0.2
LALI Alcalda de L 0.40 11 P Pn 14 04 22.4 -0.3
PANCS Alcalda de 0.56 23 S S 14 04 33.5 +0.1

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PANCS, JAYA, LOMA, JAVY, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ISHB, SHABESTAR, HAKT, HAKKARI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BVAR, Borovoye Array, TORD, Torodi Arr, etc.

ISC 12 15:03:22.7-1.8, 6.67S-155.36E, h0km, mb3.4/4, mbtmp3.4/4, MS2.9/1, Error ellipse: s-maj=64.9km s-min=32.7km az=128.0, Bougainville-Solomon Islands region

ISC 12 16:05:38.0-3.6, 5.10S; 153.12E, h48km, mb3.8/18, mbtmp4.1/19, ML1.7/1, MS3.2/5, Error ellipse: s-maj=23.8km s-min=15.5km az=85.0

THE 12 16:22:58.9, 40.5N; 0.9-2.1E, h0km, mb2.0/1, ml2.6/1, Error ellipse: s-maj=6.9km s-min=5.6km az=73.0 70 km NW of Wroclaw Seismic Mining induced.

ISC 12 16:05:37.5-0.7, 5.08S; 0.10-153.2E, h43km, n27, s-085; 122, mb4.1/18, MS3.1/3, New Ireland region

ISC 12 16:31:39.8-1.4, 51.50N; 16.10E, h0km, mb2.0/1, ml2.6/1, Error ellipse: s-maj=6.9km s-min=5.6km az=73.0 70 km NW of Wroclaw Seismic Mining induced.

PRU 12 16:31:41.3, 51.50N; 16.10E, h0km, mb2.0/1, ml2.6/1, Error ellipse: s-maj=6.9km s-min=5.6km az=73.0 70 km NW of Wroclaw Seismic Mining induced.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PMG, HNR, GUMO, DZM, WRA, ASAR, H1S3, H1S1, STKA, FITZ, DAV, NWAO, KRSR, USRK, KLR, PETK, CMAR, SONM, Vnda, MKAR, ZALV, ILAR, KURBR, QSPA.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PMG, HNR, GUMO, DZM, WRA, ASAR, H1S3, H1S1, STKA, FITZ, DAV, NWAO, KRSR, USRK, KLR, PETK, CMAR, SONM, Vnda, MKAR, ZALV, ILAR, KURBR, QSPA.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KNT, KNDrikon, KVR, EVR, HORT, MYDR, NAKR, IMAKR, SCTE, AGG, PVO, SOH, BCI, ANX, DRME, SERG, AXS, PSDA, BOSS, BARS, DRO, SELS, VTR, KAVA, SJES, GOCS, ZAPS, IVAJ, ZAGS, KSP, KSP, CHVC, CHVC, OSTC, OSTC, UPC, UPC, DPC, DPC, PVCC, PVCC, BRG, BRG, BRG, KRLC, KRLC, PRU, PRU, CLL, CLL, CLL, STEB, STEB, MORV, MORV, VRAC, VRAC, KRUC, KRUC.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OZAP, CLDR, CLDR, CLDR, TVAN, VANB, VANB, MAKU, MAKU, YOVA, GEVA, GEVA, AKDM.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OZAP, CLDR, CLDR, CLDR, TVAN, VANB, VANB, MAKU, MAKU, YOVA, GEVA, GEVA, AKDM.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OZAP, CLDR, CLDR, CLDR, TVAN, VANB, VANB, MAKU, MAKU, YOVA, GEVA, GEVA, AKDM.

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like KRUC, KHC, Kasperke Hory, etc.

ISN 12 16:32:52.0, 4.6, 34.47N, 45.62E, h10km, 5km, ML2.7
TEH 12 16:32:52.8, 34.48N, 45.65E, h10km, 71km
ISC 12 16:32:53.2, 1.1, 34.49N, 0.04, 45.66E, 0.04, h8km, 9km,

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like KGS1, GLGI, IDHR, etc.

DJA 12 16:41:36.4, 0.3, 0.2S, 2\*12.0E, h10km, M4, 2/14, mb4.3/5,
MLV4, 1/14
IDC 12 16:41:44.0, 4.5, 0.27S, 120.05E, h65km, 51km, mb3.37,

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like MPSI, PCI, APSI, etc.

ISN 12 16:41:37.0, 0.7, 0.24S, 0.03, 119.95E, 0.08, h10km, n22,
r145/24, mb3.6/7, Minahassa Peninsula, Sulawesi

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like BSSI, SANI, FITZ, etc.

IDC 12 16:44:37.8, 1.1, 8.65S, 124.10E, h107km, 11km, mb4.1/16,
mbmp=5.18, MS3.2/4, Error ellipse: s-maj=20.4km
s-min=10.6km az=83.0

NEIC 12 16:44:38.3, 2.4, 8.77S, 0.05, 124.19E, 0.06, h114km, 6km,
mb4.6/40, Error ellipse: s-maj=9.7km s-min=7.5km
az=115.0

DJA 12 16:44:40.9, 1.3, 9.3S, 2\*12.4E, h21km, 14km, M4, 7/18,
mb5.2/3, mb4.7/8, MLV4, 7/18, Mw(mb)4.5/3

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like SOEI, BATI, BMA, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like TTSI, TWSI, DRS, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like FAKI, JAGI, JAGI, etc.

ASAR comp=Z, 1.3nm, 0.7s, baz=327, slow=25, SNR=18

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like ASAR, ASAR, ASAR, etc.

ASAR comp=Z, 1.3nm, 0.6s, baz=313, slow=2.1, SNR=4.7

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like ASAR, ASAR, ASAR, etc.

ASAR comp=Z, 1.3nm, 0.7s, baz=327, slow=25, SNR=18

ASAR comp=Z, 1.3nm, 0.7s, baz=327, slow=25, SNR=18

ASAR comp=Z, 1.3nm, 0.7s, baz=327, slow=25, SNR=18

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like ASAR, ASAR, ASAR, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like SONM, SONM, HEH, etc.

SONM comp=Z, 5.0nm, 1.6s

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like HEH, HEH, NIL, etc.

SONM comp=Z, 5.0nm, 1.6s

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like SONM, SONM, HEH, etc.

NOU 12 16:48:03.0, 31.23S, 177.93W, h277km, mb4.2/18,
Kermadec Islands Region

NEIC 12 16:48:07.9, 1.6, 30.8S, 0.1, 179.0W, 0.2, h234km, 9km,
mb4.3/18, Error ellipse: s-maj=23.9km s-min=12.3km
az=50.0

IDC 12 16:48:08.5, 0.8, 30.66S, 179.06W, h239km, 12km, mb3.8/8,
mbZ=4.9, Error ellipse: s-maj=22.4km s-min=16.0km
az=50.0

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like Code, Station Name, Azimuth, Elevation, Frequency, and other parameters.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other parameters. Includes stations like BFZ Birch Farm, SNZ South Karori, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other parameters. Includes stations like MTO3 Montecristo, PACA Pacayal, etc.

CRAAG 12 17:07:52.1,36:92N:3:64E,MI3.2,Algerie 15km NE Zemmouri-El-Bahri

MDD 12 17:07:56.0,7:36:86N:3:61E,h21km,9km,Mb4,1/20, M\_mb3.5/20,Error ellipse: s-maj=8.9km s-min=3.3km az=146.0

ISC 12 17:07:52.0,9:36:89N:0:04:3:65E:0:04,h12km,n27, c2:60/45,9C,Northern Algeria

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res. Includes stations like ATBK Taksebt, ABA Alger-Bouzarea, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other parameters. Includes stations like OUR Ouranopolis, OUR Ouranopolis, etc.

THAS Thassos island, THAS Thassos island, THAS Thassos island

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SNET 12 16:59:53.9,1.1,12:75N,90:22W,h22km,4km,ML3.5

CATAC 12 16:59:54.1,0.7,13:12N,90:22W,h11km,5km,ML3.0/24, MLv3.0/24,Error ellipse: s-maj=10.2km s-min=4.1km az=80.4,confirms

GCG 12 16:59:55.2,0.9,12:78N,90:29W,h22km,12km,MD3.9

ISC 12 16:59:55.8,1.1,12:78N:0:07:9:08W:0:06,h22km,7km, n62,c0:84/69,Off coast of central America

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res. Includes stations like FAME Aycaldia de Sa, JAYA Aycaldia - fnc, etc.

STR 12 17:09:14.6,0.6,43:14N,4:30E,h0km,MLv1.0/6,Error ellipse: s-maj=0.0km s-min=0.0km az=33.9,preliminary, Pyrenees

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res. Includes stations like FILF Filloles, FILE Filloles, etc.

ATH 12 17:13:12.3,40:63N:23:43E,h11km,1km,ML3.2/25, Manual Solution by G.Panopoulos First location: 2019/06/12 17:13:58, This location: 2019/06/12 19:42:00

ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 0 km

THE 12 17:13:12.2,40:63N:23:43E:0:1,h11km,1km,ML3.3/16, MLh3.3/16

ISK 12 17:13:12.0,40:53N:23:38E,h5km,ML3.2/16

SOF 12 17:13:12.2,40:67N:0:02:23:44E:0:01,h13km,2km, ML3.2/16

BEQ 12 17:13:14.0,40:74N:23:34E,h6km,4km,ML3.1/2

AFAD 12 17:13:14.3,40:20N:23:49E,h15km,2km,MLW3.6

ISC 12 17:13:12.3,0.8,40:62N:0:01:23:42E:0:01,h15km,5km, n135,c1:80/186,17C-3D,Greece

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res. Includes stations like SOH Sokhos, SOH Sokhos, etc.

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Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like IBDR, IKRK, BHD, IBZA, etc.

NEIC 12 18:11:39.0-0.1, 43.56N-0.05-105.36W-0.08, h0km, mb3.7, mltb3.7, ML3.2/4, Error ellipse: s-maj=13.4km s-min=2.6km az=47.0

IDC 12 18:11:40.2, 1.3, 43.87N-105.78W, h0km, mb4.2/1, mltb3.6/3, ML3.2/2, MS2.6/2, Error ellipse: s-maj=32.6km s-min=9.4km az=147.0

ISC 12 18:11:39.0-0.1, 43.56N-0.05-105.31W-0.06, h0km, n26, r153/17, Wyoming

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like RSSD, K22A, LAO, BW06, etc.

IDC 12 18:15:23.4-0.9, 60.82N-143.09E, h0km, mb3.7/8, mltb3.7/12, ML3.7/4, MS2.8/5, Error ellipse: s-maj=20.8km s-min=14.2km az=0.0

NEIS 12 18:15:23.8, 60.71N-143.32E, h8km, n24, r155/32, mb3.6/7, MS3.1/3, D, Eastern Siberia

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like TLON, SUUS, etc.

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like SUUS, MGD, MA2, etc.

REN 12 18:16:20.4, 1.5, 37.54N-0.02-117.92W-0.03, h9km, 8km, Error ellipse: s-maj=3.7km s-min=2.7km az=70.0

NEIC 12 18:16:20.1, 1.9, 37.56N-0.04-117.94W-0.05, h8km, 6km, Error ellipse: s-maj=5.5km s-min=4.9km az=54.0

NCEDC 12 18:16:20.5-2.7, 37.55N-0.02-117.93W-0.04, h0km, 2km, ML3.4/5, ML3.3/88(NEIC), ML3.6/25(REN), Error ellipse: s-maj=4.9km s-min=1.6km az=63.0

ISC 12 18:16:20.7-1.2, 37.53N-0.03-117.96W-0.03, h14km, 11km, n51, r149/46, California-Nevada border region

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like DSP, MZP, GMM, etc.

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like S11A, QSM, ISA, etc.

NOU 12 18:36:19.2, 38.41S-175.90E, h195km, MLV3.5/10, North Island, New Zealand

WEL 12 18:32.1, 2.0-4.3, 38.5S-177.6E, h170km, M2.4/2.5, MLV2.4/2.5, Error ellipse: s-maj=7.0km s-min=5.7km az=163.8, confirmed

ISC 12 18:36:17.7-2.0, 38.27S-0.05-175.79E-0.05, h199km, 11km, n79, r125/92, North Island

Table with columns: Code, Station Name, Az, Az2, Op, Phase ID, Time Res, Res ISC. Includes stations like TLZ, KUTZ, WPRZ, etc.



Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Polygyros, Sokhos, CANAKKALE, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Ternate, Sanana, Cibinong, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Petropavlovsk, Saint Paul Is, Columbia Cole, etc.

CATAC 12 21:12:20.5-0.5, 14°N, 4°9'OW, h51km, 53M, 6/18, MLV3.6/18, Error ellipse: s-maj=10.0km s-min=4.9km az=19.5, confirmed

NEIC 12 21:23:46.8±1.3, 15°35'S, 0°08'174.3W, 0.1, h10km, 1km, mb4.7/28, Error ellipse: s-maj=19.5km s-min=12.2km az=106.0

GAIA 12 21:15:46.2±1.1, 2°N, 8°12'BE, h14km, 6km, M3.6/11, mb3.7/1, MLV3.5/11

ISC 12 21:22:0.1-1.8, 13°65'N, 0°08.90'24W, 0.06, h67km, 12km, n56, c974/63, Near coast of Guatemala

GCMT 12 21:23:49.8±0.2, 15°11'S, 0°01.174'15W, 0.01, h16km, 1km, MW5.0/107, Moment Tensor. Solution. s36, c41; s107, c152; Duration: 0 Moment tensor. Scale 10^16Nm; Mn=0.15±.11; Mw=2.58±.10; Ms=0.02±.30; Mb=2.01±.10; Mr=1.20±.33; Best double couple: Mw=52300±1016 NP1:φ=65.0000°, δ73.00000°, δ6.00000°; NP2:φ=333.00000°, δ84.00000°, δ163.00000°

ISC 12 21:23:52.6±5.2, 15°32'S, 174°33'W, h57km, 45km, mb3.6/14, mbmp3.9/16, ML4.3/2, MS4.1/31 Error ellipse: s-maj=24.7km s-min=18.4km az=115.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like FAME, NUBE, LOMAS, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like FUTU, NIUE, MSVF, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like M16K, M16K, M16K, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like ITCA, BOQS, UUES, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like URZ, TBI, TBI, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like SUA, SUA, SUA, etc.

ISC 12 21:15:18.5±1.5, 2°28'N, 127.47E, h0km, mb3.6/6, mbmp3.7/6, Error ellipse: s-maj=107.6km s-min=19.0km az=68.0

DJA 12 21:15:46.2±1.1, 2°N, 8°12'BE, h198km, 13km, M3.5/6, MLV3.5/6

ISC 12 21:15:38.7±1.4, 2.5°N, 0°1'128.8E, 0.2, h200km, n8, c275/8, mb3.6/5, Halmahera

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like SANSI, SANSI, FITZ, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like TINTI, TINTI, BWA, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like DAV, LUWI, KAPI, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like Denali Highway, Million Dollar, North Star Dit, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like G26K Porcupine Rive, E24K Your Creek, I30M Mount Dempster, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like G003 Copiapo, ITAB Concordia, BDFB Brasilia, etc.

IDC 12 21:41:53.0, 7.0, 15.1; 105x174.33W, h0km, mb4.0/11, mbmp4.0/11, MS4.0/47, Error ellipse: s-maj=30.0km s-min=21.8km az=124.0

NEIC 12 21:41:55.0, 1.6, 15.1; 1S:0.1x174.1W:0.1, h10km, 1km, mb4.7/12, Error ellipse: s-maj=21.8km s-min=15.1km az=303.0

GCMT 12 21:42:01.0, 0.3, 15.1; 15S:0.0x174.20W:0.0, h13km, 1km, MW4.8/99, Moment Tensor Solution, s12, c14; s99, c137; Duration: 0 Moment tensor: Scale 10^19Nm; Mr0.29±0.09; Mw0.97±0.09; Ms0.68±0.06; Mw0.14±0.19; Ms0.04±0.08; Ms0.54±0.20; Best double couple: Ms2.27300±0.1016 NP1.979 00000; δ75.00000; λ2.00000; NP2: s0.349 00000; r88.00000; p1.65.00000; Principal axes: T 1.2320, Plg12.0000; Azm303.0000; N 0.2820, Plg75.0000; Azm162.0000; P -2.4140, Plg9.0000; Azm35.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 12 21:41:54.2±0.5, 15.1; 19S:0.10x174.17W:0.08, h10km, n79, e1967/34, mb4.2/16, MS4.1/44, 1d, Tonga Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like AF1 Afiamalu, NIUE Niue, MSVF Nonsavu, etc.

SCB 12 21:38:05.9, 1.2, 19.825; 66.94W, h249km, 16km, ML3.2/2, MW3.1, Error ellipse: s-maj=4.6km s-min=3.5km az=2.0

NEIC 12 21:38:08.6, 0.9, 19.765; 0.09:67.0W:0.2, h231km, 11km, mb4.3/5, Error ellipse: s-maj=27.4km s-min=12.1km az=104.0

IDC 12 21:38:09.7, 1.6, 19.295; 67.53W, h288km, 37km, mb3.3/3, mbmp3.8/5, Error ellipse: s-maj=59.6km s-min=25.5km az=125.0

ISC 12 21:38:07.0, 0.8, 19.735; 0.06:66.98W:0.06, h250km, n42, e1965/35, Southern Bolivia

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like SOEO Opouერი, MOCB Mochara, PB08 IPOC Station P, etc.







12d 23h

Table with columns for station name, frequency, power, and other technical details. Includes stations like GURO, IBRJ, IFIR, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like AKTO, RDO, IDI, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like TIP, LANS, LANS, etc.

ATH 12:23:26:14.7,37'25N-20°51'E, h10km,3km,ML2,1/6, Manual Solution by S.Koutrakis First location: 2019/06/12 23:27:19, This location: 2019/06/13 06:44:30 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 2 km, Ionian Sea

Table with columns for Code, Station Name, Frequency, Power, and other technical details. Includes stations like LTHK, ORTH, KYLI, etc.

COEN	Coen	15.112	P	Pn	23 35 34.6	-1.2
ASAR	Alice Springs	15.88 162	Pn	Pn	23 35 42.6	-2.6
ASAR	0.4nm,0.3s,baz=338,slow=9.1,SNR=16			Sn	23 38 26.0	-15
AS01	Alice Springs	15.89 162	P	Pn	23 35 43.4	-2.1
QIS	Moon Isaa	15.93 140	P	Pn	23 35 44.5	-1.5
MKAR	Makanchi Array	68.81 328	P	P	23 43 02.2	-3.8
KURBB	Kurchatov Arra	73.14 329	P	P	23 43 27.7	-4.6
	0.4nm,0.5s,baz=125,slow=5.1,SNR=1.9					
	0.4nm,0.5s					

SNET 12 23:57:55.5 1.5, 13:20N:89.46W, h67km, ML2.9  
GOG 12 23:57:55.7 0.3, 13:17N:89.49W, h66km, 3km, MD3.6  
CATA 12 23:57:56.1 0.7, 13°N 5°8'9W, h35km, 5km, MK3.2/8,  
MLV3.2/8, Error ellipse: s-maj=11.0km s-min=5.5km  
az=21.8, confirm=

Code	Station Name	A° AZ°	Phase ID	Time Res	ISC
JAYA	Jayaque - finc	0.61 2	Op	23 58 07.9	+0.3
JAYA	Jayaque - finc	0.61 2	Op	23 58 17.5	+0.1
JAYA	Jayaque - finc	0.61 2	Op	23 58 07.9	+0.3
JAYA	Jayaque - finc	0.61 2	Op	23 58 17.6	+0.1
JAYA	Jayaque - finc	0.61 2	Op	23 58 08.0	-0.3
JAYA	Jayaque - finc	0.61 2	Op	23 58 16.7	-0.8
LOMA	Loma Larga	0.67 26	Op	23 58 07.7	-0.2
LOMA	Loma Larga	0.67 26	Op	23 58 18.9	+0.2
PMON	Piamonte	0.68 13	Op	23 58 08.8	-0.3
PMON	Piamonte	0.68 13	Op	23 58 19.7	+0.6
PMON	Piamonte	0.68 13	Op	23 58 09.7	+0.6
LFRS	El Faro	0.70 35	Op	23 58 09.0	-0.4
BOQS	Boqueron	0.71 15	Op	23 58 18.7	-0.8
BOQS	Boqueron	0.71 15	Op	23 58 08.4	-0.2
BOQS	Boqueron	0.71 15	Op	23 58 20.2	+0.3
PIC2	El Picacho	0.73 17	Op	23 58 10.2	+0.3
PIC2	El Picacho	0.73 17	Op	23 58 21.2	+0.9
CEVE	Cerro Verde	0.79 349	Op	23 58 10.8	+0.1
CEVE	Cerro Verde	0.79 349	Op	23 58 23.1	+1.4
CEVE	Cerro Verde	0.79 349	Op	23 58 10.6	0.0
CEVE	Cerro Verde	0.79 349	Op	23 58 21.9	+0.2
SBSL	San Blas	0.81 350	Op	23 58 10.9	+0.1
COEG	Centro de Oper	0.81 45	Op	23 58 09.7	-1.1
COEG	Centro de Oper	0.81 45	Op	23 58 21.4	+0.6
SNEJ	San Jose	0.83 351	Op	23 58 11.0	-0.1
SNEJ	San Jose	0.83 351	Op	23 58 23.7	+1.1
PAVA	Las Pavas	0.85 38	Op	23 58 11.2	0.0
PAVA	Las Pavas	0.85 38	Op	23 58 23.3	+0.5
PAVA	Las Pavas	0.85 38	Op	23 58 11.2	0.0
PAVA	Las Pavas	0.85 38	Op	23 58 22.7	+0.1
NUBE	Las Nubes	0.91 341	Op	23 58 11.9	-0.1
NUBE	Las Nubes	0.91 341	Op	23 58 24.5	+0.2
NUBE	Las Nubes	0.91 341	Op	23 58 11.9	-0.1
ALJI	Alcaldia de J	0.92 72	Op	23 58 12.3	+0.2
ALJI	Alcaldia de J	0.92 72	Op	23 58 24.0	+0.4
FAME	Alcaldia de Sa	0.95 327	Op	23 58 13.1	+1.2
FAME	Alcaldia de Sa	0.95 327	Op	23 58 12.2	+0.4
PACA	Pacayal	1.20 69	Op	23 58 24.7	+0.5
PACA	Pacayal	1.20 69	Op	23 58 15.8	-0.1
PACA	Pacayal	1.20 69	Op	23 58 31.2	0.0
PACA	Pacayal	1.20 69	Op	23 58 16.0	+0.1
LCY	Lacayo	1.21 72	Op	23 58 16.2	+0.1
MT03	Montecristo	1.35 5	Op	23 58 17.9	-0.2
MT03	Montecristo	1.35 5	Op	23 58 35.0	+0.1
MT03	Montecristo	1.35 5	Op	23 58 17.8	-0.4

NEIC 13 00:07:29.9 1.4, 0.84N:0.08x126.52E:0.05, h59km, 7km,  
mb4.6/34, Error ellipse: s-maj=11.8km s-min=7.8km  
az=181.0

DJA 13 00:07:29.1 1.0, 1°N:2°12'6E, h30km, 15km, M4.5/18,  
mB5.1/3, mb4.7/8, MLv4.1/18, Mw(mB)4.5/3  
IDC 13 00:07:31.8 2.6, 0.81N:126.85E, h85km, 22km, mb3.9/21,  
mbmp4.3/23, MS3.1/8, Error ellipse: s-maj=22.4km  
s-min=8.5km az=77.0

Code	Station Name	A° AZ°	Phase ID	Time Res	ISC
TNTI	Ternate	0.91 96	Op	00 07 45.4	+1.9
TNTI	Ternate	0.91 96	Op	00 07 57.7	+2.1
TNTI	Ternate	0.91 96	Op	00 07 45.5	+1.9
TNTI	Ternate	0.91 96	Op	00 07 58.3	+2.8
TNTI	Ternate	0.91 96	Op	00 07 45.3	+1.7
TNTI	Ternate	0.91 96	Op	00 07 47.2	+2.1
KMSI	Cibinong	2.50 264	Op	00 08 08.0	+2.5
SANI	Sanana	2.93 189	Op	00 08 13.6	+2.2
SANI	Sanana	2.93 189	Op	00 08 13.0	+1.6
SGSI	Sanghe	2.96 342	Op	00 08 12.5	+0.7
NLAI	Namlea	4.12 171	Op	00 08 29.8	+2.0
LWUI	Luwuk	4.15 243	Op	00 08 31.2	+3.1
LWUI	Luwuk	4.15 243	Op	00 08 35.5	+3.3
LWUI	Luwuk	4.15 243	Op	00 08 32.2	+4.0
LWUI	Luwuk	4.15 243	Op	00 08 35.9	+2.3
AAI	Ambon	4.84 159	Op	00 08 46.2	+8.5
MSAI	Masohi	4.85 149	Op	00 08 44.2	+8.2
SWI	Sorong	5.09 110	Op	00 08 43.6	+2.4
APSI	Ampana	5.13 250	Op	00 08 47.7	+6.1
TOL2	Tolitoli	5.69 273	Op	00 08 52.5	+3.1
TOL2	Tolitoli	5.69 273	Op	00 08 53.6	+4.2
KDI	Kendari	6.14 219	Op	00 08 57.9	+2.4
MPSI	Mapaga	6.59 266	Op	00 09 05.0	+3.3
FAKI	Fak Fak	6.89 123	Op	00 09 08.9	+2.9
FAKI	Fak Fak	6.89 123	Op	00 09 10.7	+4.7
FAKI	Fak Fak	6.89 123	Op	00 09 09.2	+3.2
BNSI	Bone	8.22 231	Op	00 09 26.1	+1.9
SPSI	Sidrap Palu	8.23 234	Op	00 09 26.2	+1.9
KAPI	Kappang	8.89 229	Op	00 09 36.5	+3.2
KAPI	Kappang	8.89 229	Op	00 09 37.0	+3.7
KAPI	16nm,0.5s,baz=39,slow=6.1,SNR=6.1			00 11 12.3	+0.1
KAPI	0.3nm,0.3s,baz=178,slow=20,SNR=1.9			00 12 34.8	
KAPI	comp=Z,38nm,21.7s,baz=47,slow=34			00 09 37.7	+4.4
KAPI	comp=Z,38nm,21.7s,baz=47,slow=34			00 09 39.6	+4.3
KAPI	comp=Z,38nm,21.7s,baz=47,slow=34			00 10 48.5	0.0
KAPI	comp=Z,38nm,21.7s,baz=47,slow=34			00 10 58.8	+1.3
JAY	Jayapura	14.63 103	Op	00 11 12.5	+0.7
KSM	Kuching	16.16 272	Op	00 11 12.5	+0.7
KNRA	Kunurra	16.59 172	Op	00 11 17.8	+0.6
KNRA	Kunurra	16.59 172	Op	00 11 20.4	
FITZ	Fitzroy Crossi	18.86 182	Op	00 11 44.3	0.0
FITZ	Fitzroy Crossi	18.86 182	Op	00 11 44.2	0.0
WBO	Warramunga Arr	22.07 160	Op	00 12 17.2	-0.3
WRAB	Tennant Creek	22.06 160	Op	00 12 19.6	+0.4
WRAB	Tennant Creek	22.06 160	Op	00 12 25.2	
WRA	Warramunga Arr	22.07 160	Op	00 12 18.1	-1.0
WRA	Warramunga Arr	22.07 160	Op	00 12 19.6	+0.4
WRA	comp=Z,1.9nm,0.8s,baz=327,slow=16,SNR=5.7			00 16 16.2	-4.2
WRA	comp=Z,1.9nm,0.8s,baz=327,slow=16,SNR=5.7			00 12 19.6	-0.2
WRA	comp=Z,1.9nm,0.8s,baz=327,slow=16,SNR=5.7			00 12 21.2	
COEN	Coen	22.15 132	Op	00 12 19.8	-0.3
COEN	Coen	22.15 132	Op	00 12 48.2	
GUMO	Guam	22.18 54	Op	00 19 51.4	
MBWA	Marble Bar	22.85 196	Op	00 12 27.5	+0.1
MBWA	Marble Bar	22.85 196	Op	00 12 30.8	

PMG	Port Moresby	23.00 117	LR	LR	00 25 02.3	
AS31	Alice Springs	25.43 164	Op	Op	00 12 51.4	-0.2
ASAR	Alice Springs	25.43 164	Op	Op	00 12 50.7	-0.9
ASAR	Alice Springs	25.43 164	Op	Op	00 12 51.8	+0.1
ASAR	comp=Z,6.0nm,0.4s,baz=349,slow=7.4,SNR=39			PcP	00 16 22.8	-0.5
ASAR	comp=Z,0.7nm,0.4s,baz=344,slow=2.3,SNR=5.4			PcP	00 17 14.6	-1.5
ASAR	comp=Z,0.7nm,0.8s,baz=344,slow=19,SNR=2.9			S	00 23 17.3	
JOW	Knigami	25.88 4	Op	Op	00 12 55.7	+0.1
CTAO	Charters Tower	28.45 138	Op	Iamb	00 13 18.3	-0.6
CTAO	Charters Tower	28.45 138	Op	Iamb	00 13 13.2	
FORT	Nanjing	31.50 177	Op	Op	00 13 45.8	+0.1
NJ2	Nanjing	31.85 348	Op	Op	00 13 50.1	+1.4
CMAR	Chiang Mai Arr	32.18 305	Op	Op	00 13 51.2	-0.7
CMAR	Chiang Mai Arr	32.18 305	Op	Op	00 13 51.6	-0.2
CMAR	comp=Z,0.5nm,0.3s,baz=154,slow=4.9,SNR=4.1			LR	00 29 38.3	
CMAR	comp=Z,2.2nm,18.4s,baz=130,slow=41			LR	00 29 38.3	
BBOO	Bucklebo	34.69 166	Op	Op	00 14 13.2	-0.4
PZH	Panzhihua	34.87 319	Op	Op	00 14 18.8	+3.5
HNH	Honiara	34.88 108	Op	LR	00 29 00.9	
STKA	Stephens Creek	35.58 158	Op	Op	00 14 21.0	-0.1
STKA	Stephens Creek	35.58 158	Op	Op	00 14 21.1	-0.1
STKA	comp=Z,5.6nm,0.8s,baz=333,slow=11,SNR=10			PcP	00 16 47.9	-1.7
KSRS	Korea Array	36.44 2	Op	Op	00 14 28.7	+0.3
MJAR	Matasiro Arr	37.13 16	Op	Op	00 14 35.2	+0.8
HHC	Hu-ho-hao-te	42.04 343	Op	Op	00 15 17.4	+2.1
HHC	Hu-ho-hao-te	42.04 343	Op	Op	00 15 17.4	+2.1
HHC	comp=Z,10.0nm,0.6s			Op	00 15 17.4	+2.1
HHC	comp=Z,8.2nm,5.4s			Op	00 15 17.4	+2.1
USRK	Ussuriysk Arr	43.43 6	Op	Op	00 15 26.6	+0.2
ASAJ	Asahikawa	45.40 16	Op	LR	00 33 33.6	
SOMN	Songino Array	49.33 342	Op	Op	00 16 17.5	+0.1
SOMN	comp=Z,1.7nm,0.7s,baz=164,slow=7.6,SNR=5.0			PcP	00 17 36.8	-0.5
SOMN	comp=Z,0.7nm,0.5s,baz=141,slow=2.4,SNR=3.0			LR	00 38 37.7	
WMQ	Ururumi	54.93 326	Op	Op	00 16 54.4	-0.1
WMQ	Ururumi	54.93 326	Op	Op	00 17 18.8	+9.3
PETK	Petrovavlovsk	58.17 22	Op	Op	00 17 17.0	-0.3
MKAR	Makanchi Array	59.76 326	Op	Op	00 17 27.5	-1.0
ZALV	Zalesovo Beam	63.02 334	Op	Op	00 17 49.4	-0.9
KURBB	Kurchatov Arra	64.01 328	Op	Op	00 17 55.9	-1.0
KURK	Kurchatov	64.02 328	Op	Op	00 17 56.2	-0.7
KK31	Karatay Array	65.16 318	Op	Op	00 18 03.5	-1.1
KKAR	Karatay Array	65.16 318	Op	Op	00 18 03.0	-1.6
BVAR	Borovoye Array	69.58 328	Op	Op	00 18 31.9	-0.4
BRVK	Borovoye	69.65 328	Op	Op	00 18 32.2	-0.6
BRVK	Borovoye	69.65 328	Op	Op	00 18 53.6	
ABKAR	Akbulak Array	74.20 321	Op	Op	00 18 59.4	-0.7
ABKAR	Akbulak Array	74.20 321	Op	Op	00 18 59.7	-0.4
ARTI	Arti	77.29 328	Op	Op	00 19 16.6	-1.0
ARTI	Arti	77.29 328	Op	Op	00 19 17.1	-1.0
VNDA	Vanda	80.63 173	Op	Op	00 19 35.2	-0.3
VNDA	Vanda	80.63 173	Op	Op	00 19 35.3	-0.3
VOI	Voitsoika	80.74 248	Op	Op	00 19 36.4	-1.0
K15K	Wolf Creek Mou	80.94 27	Op	Op	00 19 37.6	+0.1
K15K	Wolf Creek Mou	80.94 27	Op	Op	00 19 39.6	
RAYN	Ar Rayn	81.37 294	Op	Op	00 19 39.4	-1.2
RAYN	Ar Rayn	81.37 294	Op	Op	00 19 40.6	
SBA	Scott Base	81.55 172	Op	Op	00 19 41.2	+0.7
K17K	Iditarod	82.49 27	Op	Op	00 19 46.5	+0.8
K17K	Iditarod	82.49 27	Op	Op	00 19 47.9	
L18K	Granite Mountain	83.12 27	Op	Op	00 19 49.8	+0.8
L18K	Granite Mountain	83.12 27	Op	Op	00 19 51.0	
H19K	Roundabout Mou	83.88 24	Op	Op	00 19 53.3	+0.6
H19K	Roundabout Mou	83.88 24	Op	Op	00 19 54.7	
N19K	Bonanza Creek	83.91 29	Op	Op	00 19 53.7	+0.5
N19K	Bonanza Creek	83.91 29	Op	Op	00 19 55.1	
KDKA	Kodiak Island	84.44 32	Op	Op	00 19 55.4	-0.4
KBZ	Khabaz	84.75 314	Op	Op		

Table with columns: PRN, Name, Az, El, Pn, Time, Res. Includes stations like Pahroc Range, Wickenburg, Pine Nut, Forest Hills D, Troy Canyon, Little Creek M, Fah Rah Range, North Rim, Pine Spring, Lo Mia Camp, Wupatki.

Table with columns: Code, Station Name, Az, El, Pn, Time, Res. Includes stations like SSPA Standing Stone, SSPA 6um.0.3s, SSPA 6um.0.3s, N58A Sunbury, N58A 4um.0.3s, N58A 4um.0.2s, PABK Blue Knob Stat, PABK PABK, M57A Sunshine Farm, M57A 2um.0.4s, M57A 2um.0.6s, MVL Millersville, MVL 2um.0.1s, MVL Millersville, P57A Homestead Farm, P57A 3um.0.1s, SDMD Homestead Farm, SDMD Soldier's Deli, PSDB Penn State Uni, PSDB Penn State Uni, PSWB Penn State Wil, PSWB Penn State Wil, WUPA West Chester U, WUPA Newark, P60A Greenville, LUPA Lehigh Univ, PSUB Coxs Mill, L56A Greenwood, L56A Greenwood, KSPA Keystone Colle, TUPA Temple Univ, Q56A Snyder Ridge, UPAO U. Pittsburgh, MCWV Mont Chateau, PAOC Oil Creek Stat, BINY Binghamton, PANJ Princeton, WVNY West Valley, N P61A Hammtown, P61A Hammtown, CBN Corbin Frederi, O54A Avella, BRNJ Basking Ridge, MMNY Mt. Morris Dam, ALLY Allegheny Colle, K57A Scipio Center, R58B Mineral, R58B Mineral, ERPA Erie, L59A Walton, L59A Walton, N53A Lisbon, N53A Lisbon, CPNY Central Park, CPNY CPNY, PAL Palisades, MEDO Medina, O53A New Philadelphia, J55A Hilton, J55A Hilton, S57A Dark Hollow, R, S57A Dark Hollow, R, O54A Coxs Mill, R55A Marlinton, R55A Marlinton, M52A Chesterland, P53A Whipple, J57A Williamstown, K52A Kent School, K 3.29 65, O52A Adamsville, O52A Adamsville, TS9A Double "B" Far, TS9A Double "B" Far, PECO Prince Edward, P52A Corning, T57A Hurt, T57A Hurt, N51A Ashland, N51A Ashland, J59A Piesco, J59A Piesco, S54A Dingsess, Beckl, O52A Bidwell, O52A Bidwell, DELO Deloro Mine, DELO Deloro Mine, ACCN Adirondack Com, ACCN Adirondack Com, L61B Northampton, L61B Northampton, ACSO Alum Creek Sta, UCCT U. Connecticut, UCCT U. Connecticut, M63A Gales Ferry, M50A Fremont, P51A Williamsport, K62A Royalston, K62A Royalston, J61A Chester, J61A Chester, LONY Lake Ozonia, LONY Lake Ozonia, Q51A Peebles, V55A Windy Hill, P, V58A Windy Hill, P, WBO Williamsburg, HRV Adam Dzewonski, HRV Adam Dzewonski, W55A Weston, W55A Weston, HNH Hanover, HNH Hanover.

Table with columns: Name, Az, El, Pn, Time, Res. Includes stations like Columbus Grove, Midway Rough, Covington, Flat Rock, Clinton, Point Hope, Busby, Falmout, Taylorsville, Beatlyville, Libby, Gilead, Paris, Tanworth, Montreal, Quebec, Farmland, Kings Mountain, Milroy, Mt Tremblant, Birtown, Birtown, Kers, Shelbyville, Salud, Pauline, Sumter, Jenkinville, Lake Joasse, West of Eustis, Bloomington, Wyandotte C, Lafayette, Murphy, Rosedale, Peaks-Kenny Pk, Signal Mountai, Sharon Grove, Calhoun, Sewanee, Sherman, La Malbaie, Allapoint, All, Hartselle, Saint Noutai.

IDC 13 00:10:08.1±1.6, 112N-126.64E, h0km, mb3.8/5, mbtmp3.8/5, Error ellipse: s-maj=160.0km s-min=21.4km az=67.0, Northern Molucca Sea

GCG 13 00:15:21.5±2.2, 142°20'N-93°12'W, h36km, 99gkm, MD4.0, ML3.4 MEX 13 00:15:23.7±0.6, 147°43'N-93°14'W, h11km, 37gkm, MD3.9

Table with columns: Code, Station Name, Az, El, Pn, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makachni Array, ZALV Zalesovo Beam, KURBB Kurchatov Arr, THIG THIG, PATR El Naranjo, PAVE Pavencul, PCIG PCIG, RTAL Retalhuleu, STGB El Palmar, STGB El Palmar, STGO El Palmar, CCIG Comitan, CCIG Comitan, TGIG TGIG, HUIG Huatulochi.

IDC 13 00:30:03.9±4.1, 9°24'N-93°38'E, h0km, 36gkm, mb3.5/13, mbtmp3.8/15, ML3.7/2, MS3.1/1, Error ellipse: s-maj=42.3km s-min=15.1km az=60.0

Table with columns: Code, Station Name, Az, El, Pn, Time, Res. Includes stations like PSI Prapat, CMAR Chiang Mai Arr, H08S3 Diego Garcia H, H08S2 Diego Garcia H, H08S1 Diego Garcia H, MKAR Makachni Array, KURBB Kurchatov Arr, BVAR Borovoye Array, WRA Warramunga Arr, WRA Warramunga Arr, ASAR Alice Springs, BRTR Keskin Array B, FINES FINES Array B, ARCES ARCES Array B, GERES GERES Array B, HFS Hagfors, SPITS Spitsbergen Arr, EKA Eskdalemuir Arr, ILAR Eielson Array, PLCA Paso Flores, CPUP Villa Florida, CFA Coronel Fontan.

IDC 13 00:30:01.2±0.7, 9°11'N-01°93'E, h0km, n21, n127/20, mb3.8/13, Nicobar Islands region

Table with columns: Code, Station Name, Az, El, Pn, Time, Res. Includes stations like S57A Dark Hollow, R, O54A Coxs Mill, R55A Marlinton, M52A Chesterland, P53A Whipple, J57A Williamstown, K52A Kent School, K 3.29 65, O52A Adamsville, O52A Adamsville, TS9A Double "B" Far, TS9A Double "B" Far, PECO Prince Edward, P52A Corning, T57A Hurt, T57A Hurt, N51A Ashland, N51A Ashland, J59A Piesco, J59A Piesco, S54A Dingsess, Beckl, O52A Bidwell, O52A Bidwell, DELO Deloro Mine, DELO Deloro Mine, ACCN Adirondack Com, ACCN Adirondack Com, L61B Northampton, L61B Northampton, ACSO Alum Creek Sta, UCCT U. Connecticut, UCCT U. Connecticut, M63A Gales Ferry, M50A Fremont, P51A Williamsport, K62A Royalston, K62A Royalston, J61A Chester, J61A Chester, LONY Lake Ozonia, LONY Lake Ozonia, Q51A Peebles, V55A Windy Hill, P, V58A Windy Hill, P, WBO Williamsburg, HRV Adam Dzewonski, HRV Adam Dzewonski, W55A Weston, W55A Weston, HNH Hanover, HNH Hanover.

IDC 13 00:38:11.6±1.1, 50°27'S-139°17'E, h0km, mb4.0/6, mbtmp4.0/7, ML3.8/1, MS3.9/26, Error ellipse: s-maj=68.8km s-min=17.0km az=87.0

Table with columns: Code, Station Name, Az, El, Pn, Time, Res. Includes stations like TAU Tasmania Unive, TOO Tooihau, STKA Stephens Creek, STKA Stephens Creek, MLZ Mavora Lakes, MLZ Mavora Lakes, CASY Casey, CASY Casey, RPZ Rata Peaks, RPZ Rata Peaks, NWA Naroona (SRO), NWA Naroona (SRO), H01W1 Cape Leeuwin H, H01W2 Cape Leeuwin H, H01W3 Cape Leeuwin H, ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, VANDA Vanda, VANDA Vanda, VANDA Vanda, URZ Urewera, URZ Urewera, WRR Warramunga Arr, WRR Warramunga Arr, WRA Warramunga Arr, WRA Warramunga Arr, FITZ Fitzroy Crossi, FITZ Fitzroy Crossi, FITZ Fitzroy Crossi, DZM Mount Dzumac, DZM Mount Dzumac, QSPA South Pole Qui, QSPA South Pole Qui, QSPA South Pole Qui, QSPA South Pole Qui, MAW Mawson, MAW Mawson, MAW Mawson.

NEIC 13 00:30:57.4±1.0, 40°42'N-0°02'77.52W±0.02, h33km, 9gkm, mb\_Lg3.4/132, ML3.8/14, Mwr3.4/41, ML3.4/8(LD), Error ellipse: s-maj=3.2km s-min=2.7km az=187.0, Moment Tensor Solution. Moment tensor: Scale 10^14Nm;

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PMG Port Moresby, HNR Honiara, MSVF Nonsavu, etc.

IDC 13 00:40:10.1±0.7, 3.39N:128.79E, h0km, mb4.0/13, mltmp4.0/13, Error ellipse: s-maj=44.0km s-min=14.0km bz=7.0

DJA 13 00:40:21.0±2.0, 4.31N:3.12E, h41km,20km, M4.4/13, m34.9/5, mb4.4/8, MLV4.5/13, Mw(m)B4.2/5

NEIC 13 00:40:23.1±2.4, 3.01N:0.09E:127.9E:0.1, h96km,7km, mb4.4/14, Error ellipse: s-maj=19.0km s-min=1.1km az=68.0

ISC 13 00:40:22.8±0.6, 3.01N:0.07E:127.90E:0.08, h100km, n51, ±136.50, mb4.2/21, 1.0C, Talaud Islands

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TINTI Ternate, SGTI Sangihe, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ARCES ARCESS Array B, QSPA South Pole Qui, etc.

IDC 13 00:56:10.4±0.4, 4.104N:144.16E, h0km, mb4.8/39, mltmp4.74/6, Ms4.2/7, MS4.2/7, Error ellipse: s-maj=11.2km s-min=9.9km az=36.0

BUI 13 00:56:11.1, 4.120N:143.99E, h11km, mb4.9/24, mb4.8/62, MS4.4/62, MS7.4/62

NEIC 13 00:56:12.7, 4.093N:144.10E, h18km, Moment Tensor Solution. Duration: 152 Moment tensor: Scale 10^16Nm; Mr=2.02; Ms=1.64; Mss=0.39; Mss=0.37; Mss=1.00; Fault plane solution: Mo2.23000x10^16 NP1: s=273.10000, s34.00000, s-1.16.00000. NP2: s=123.70000, s59.86000, s-73.48000. Principal axes: T 1.9424, Plg13.0000; Azm202.0000; N 0.4922, Plg14.0000; Azm295.0000; P -2.4346, Plg70.0000, Azm70.0000.

MOS 13 00:56:12.2±0.9, 4.109N:144.06E, h22km, mb5.2/87, MS4.4/12, Error ellipse: s-maj=5.3km s-min=3.5km az=107.6

NEIC 13 00:56:12.7, 4.103N:144.10E, h18km NIED 13 00:56:13.3, 4.104N:144.16E, h63km, MW4.7, Moment Tensor Solution. s3 Moment tensor: Scale 10^16Nm; Mr=1.25; Ms=1.32; Mss=0.07; Mss=0.01; Mss=0.15; Mss=0.65; Fault plane solution: Mo1.44000x10^16 NP1: s=254.00000, s48.00000, s-123.00000. NP2: s=11.8.00000, s51.00000, s-59.00000.

NEIC 13 00:56:13.7, 4.104N:144.09E:0.09, h19km,3km, mb5.1/205, MW4.8/12, Error ellipse: s-maj=9.6km s-min=6.4km az=95.0

JMA 13 00:56:13.3±0.2, 4.10N:0.07E:144.2E:0.6, h63km,2km, MD4.7/38, MW4.8/38, SE OFF ERIMOMISAKI JMA Felt J1 at SE OFF ERIMOMISAKI

GCMT 13 00:56:14.7±0.3, 4.10N:0.01E:144.06E:0.03, h20km, MW4.9/96, Moment Tensor Solution. s51, c59; s96, c134; Duration: 0 Moment tensor: Scale 10^16Nm; Mr=2.51±12; Mss=2.00±08; Mss=0.50±07; Mss=0.21±13; Mss=0.43±05; Mss=1.07±17; Best double couple: Mo2.49500x10^16 NP1: s=268.00000, s47.00000, s-16.00000. NP2: s=123.00000, s45.00000, s-65.00000. Principal axes: T 2.1170, Plg1.0000; Azm196.0000; N 0.7550, Plg18.0000; Azm200.0000; P -2.8740, Plg72.0000; Azm103.0000; nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 13 00:56:11.8±0.4, 4.112N:0.003E:144.13E:0.03, h8km,3km, h8km, pP-P, n1083, s1946/1076, mb5.0/238, MS4.3/77, 74C-27D, Hokkaido region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ERM Erimo, JEM Erimo, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JS12 Shiura, GLVR Golovino, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JS12 Shiura, GLVR Golovino, etc.

13d Oh

Table with columns for station code, name, coordinates, and various data points (e.g., MDJ, KLR, KRSR, etc.).

2019 JUN

Table with columns for station code, name, coordinates, and various data points (e.g., YAK, YAK, YAK, etc.).

638

Table with columns for station code, name, coordinates, and various data points (e.g., LZH, P08K, NIKH, etc.).





13d Oh

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes entries like E29M Blow River, YUK3 Moose Creek, EVN Everest, etc.

2019 JUN

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes entries like N32M Quiet Lake, SIT Sitka, P32M Atlin, etc.

640

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes entries like APA Apatity, KEV Kevo, KEV Kevo, etc.



Table of astronomical observations for 13d 1h, listing stations like GRF, GRFO, GRFO, etc., and their corresponding data points.

Table of astronomical observations for 2019 JUN, listing stations like TX31, TXAR, TXAR, etc., and their corresponding data points.

Table of astronomical observations for 2019 JUN, listing stations like JAYA, JAYA, JAYA, etc., and their corresponding data points.

CATAC 13 01:12:37.0±0.4, 13°N, 2°8'9W, h24km, 2km, M3.7/33, MLV3.7/33, Error ellipse: s-maj=4.9km s-min=2.9km az=35.2, confirmed

SNET 13 01:12:37.1±1.6, 13°05N, 89°52W, h35km, ML3.7 GCG 13 01:12:38.6±0.9, 13°14N, 89°58W, h35km, 5km, MD3.9, ML3.6

ISC 13 01:12:37.8±1.3, 13.060N, 0.055E, 89.48W, 0.03, h33km, 2km, n100, c089/126, El Salvador

Table of station data for the 2019 JUN observations, including station names, codes, and coordinates.

ATH 13 01:05:53.6, 37°59N, 20°32E, h12km, 2km, ML1.8/6, Manual Solution by S. Koutrakis, First location: 2019/06/13 01:07:00. This location: 2019/06/13 08:34:48

Table of station data for the ATH observations, including station names, codes, and coordinates.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like CNCH Conchagua, SARH Santa Rosa de, POTN Potosi Cosigui, STGO El Palmer, Qui, etc.

IDC 13 01:19:43.1±1.8, 19°15'S×177.81'W, h0km, mb3.9/4, mbtmp3.9/4, Error ellipse: s-maj=50.6km s-min=41.0km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, GSPA South Pole Qui, ILAR Eielson Array.

ATH 13 01:29:38.5, 37°75N-21°19'E, h16km, ML3.0/12, Manual Solution by S.Kourakis First location: 2019/06/13

ISC 13 01:29:39.3±0.9, 37°82N±0°03.21'19E±0°02, h15km, 5km, n47, ±0:50/75, Southern Greece

Large table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists numerous stations including KYLLINI, LCHA, ANDM, LITHAKIA, etc.

NEIC 13 01:32:36.2±1.5, 40°40'N±0°04.77'53'W±0°04, h22km, 7km, ML1.6/14, ML1.4(LDO), Error ellipse: s-maj=5.3km

LDO 13 01:32:37.1±1.4, 40°43'N±0°03.77'51'W±0°03, h29km, 8km, Error ellipse: s-maj=5.0km s-min=2.0km az=154.0, Pennsylvania

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SSPA Standing Stone, N58A Sunbury, M57A Sunshine Farm, etc.

Table with columns: MVL, P57A, SDMD, WUPA, KSPA, G56A. Includes station names and coordinates.

IDC 13 01:44:28.0±1.4, 50°25'S×139°37'E, h0km, mb3.7/5, mbtmp3.7/5, MS3.4/2, Error ellipse: s-maj=154.6km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NWA0 Narrogin (SRO), H01W1 Cape Leeuwin H, H01W2 Cape Leeuwin H, etc.

TEH 13 01:48:44.6, 34°35'N±45°20'E, h10km, 45km, ISN 13 01:48:45.0±0.5, 34°86'N±45°21'E, h15km, 13km, ML2.8

ISC 13 01:48:44.3±1.1, 34°86'N±45°20'E±0°04, h10km, n12, ±0:59/15, Iran-Iraq border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like KGSJ Ghaz-e-Shirin, IKRK Kirkuk, etc.

IDC 13 01:48:50.6±1.9, 4°97'N-94°54'E, h0km, mb3.8/7, mbtmp3.8/8, Error ellipse: s-maj=81.5km s-min=20.6km

DJA 13 01:49:00.3±1.4, 5°N±4°9'5"E±1, h10km, M3.6/4, MLV3.6/4

ISC 13 01:48:55.7±1.7, 5°30'N±0°2.94'48"E±0°10, h10km, n17, ±1:19/18, mb3.6/7, Northern Sumatra

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like BSI Banda Aceh, LHMJ Lhok Sumatra, etc.

IDC 13 02:06:06.3±1.7, 36°26'N±22°40'E, h0km, mb3.8/3, mbtmp3.5/5, ML3.2/2, Error ellipse: s-maj=69.9km

ISK 13 02:06:09.9, 34°38'N±24°05'E, h20km, ML2.9/15

THE 13 02:06:11.8, 34°N±5°2'4"E±1, h19km, 6km, M2.9/8, MLh2.9/8

ATH 13 02:06:12.4, 34°50'N±24°10'E, h20km, ML3.2/7, Manual Solution by K.Orfanogianni First location: 2019/06/13 02:07:13

AFAD 13 02:06:21.0, 35°06'N±24°60'E, h35km, ML2.8

ISC 13 02:06:11.7±1.5, 34°46'N±0°08.24'15E±0°04, h29km, gkm, n54, ±1:18/70, Crete

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like GVD Gavdhos, MBK Timbaki Herakl, etc.

Table with columns: TMBK, KNDR, PALAIOCHORA CH, etc. Includes station names and coordinates.

IDC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like CHNB Souda, CHAN Chania, etc.

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

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ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km

ISC 13 02:06:38.1±0.6, mbtmp3.8/1, Error ellipse: s-maj=130.5km





Table with columns for station name, frequency, power, and other technical details. Includes stations like DBIC Dimbokoro, TMAB Tom IPA, Br, MT01 Popeta, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like ROSC, SDV Santo Domingo, SDV Santo Domingo, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like SSB Saint Sauveur, OSSC Osser-torio P, MSSA Maissana, etc.





CATAC 13 03:31:12.9.0.3, 14°N, 3°9'0W, h192km, 2km, M4, 6/39, mb5.1/1, mB5.4/1, MLV4.3/39, Mw(m)B4.8/1, Error ellipse: s-maj=8.1km s-min=2.7km az=28.5, Moment Tensor Solution. Moment tensor: Scale 10^19Nm; Mr3.29; Mw=4.93; Mo=1.63; Mo2.36; Mo3.08; Mo5.21; Fault plane solution: Mw7.81849x10^15; NP1=145.35896°, 874.83415°, 123.21198°. NP2=257.14089°, 836.14650°, 126.32899°. Principal axes: T 7.7462, Plg49.1116, Azm91.6356°; N 0.1426, Plg31.9151°, Azm315.6400°; P -7.8888, Plg22.7063°, Azm210.5339°. Moment Tensor Solution. Moment tensor: Scale 10^15; Mr3.29; Mw=4.92; Mo=1.67; Mo2.39; Mo3.08; Mo5.21; Fault plane solution: Mw7.96344x10^15; NP1=147.56603°, 875.03150°, 124.97306°. NP2=257.83234°, 837.66312°, 125.00629°. Principal axes: T 7.9264, Plg47.9358, Azm94.7927°; N 0.0736, Plg33.6241°, Azm317.3246°; P -8.0000, Plg22.1554°, Azm211.6139°, confirmed

ISC 13 03:31:11.5.0.4, 14.43N, 0.04.90.35W, 0.04, h214km, 3km, n350, s126/348, mb4.770, Guatemala

Table with columns: Code, Station Name, Az, Az2, Op, ISC, Pn, Time, Res, ISC. Lists various seismic stations and their associated data points.

Table with columns: INTNH, P, Pn, 2.18, 93, P, Pn. Lists seismic events with station codes, magnitudes, and other parameters.

Table with columns: X51A, P, Pn, 20.66, 13, P, P. Lists seismic events with station codes, magnitudes, and other parameters.

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like MUPT Porto Martinho, AODB Aquidauana, RPRD Ribas do Rio P, etc.

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like MLPR comp=E,14nm,0.2s, MLPR comp=N,14nm,0.2s, AOPR Arcelob Observ, etc.

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like PLCA Paso Flores, PLCA Paso Flores, TXAR Lajitas Array, etc.

SDD 13 04:13:12.7.1.1, 18'21N:67.41W, h127km, 9km, MD3.2, ML2.3, MW2.9

IDC 13 04:21:03.3.0.9, 40:83S:43:82E, h0km, mb3.9/8, mbmp3.9/9, ML3.4/1, MS3.5/4, Error ellipse: s-maj=31.7km

NOU 13 04:50:25.4.37:00S:179:05W, h0km, MLV4.3/7, East of North Island, NZ

NEIC 13 04:13:12.5.0.4, 18'24N:0'08:67.46W, 0.02, h116km, 5km, ML2.4/24, MD3.0/15(RSPR), Error ellipse: s-maj=11.5km

NEIC 13 04:21:05.5.1.3, 40:85S:1:43:5'E, 0.1, h10km, 1km, mb4.5/12, Error ellipse: s-maj=20.7km s-min=17.7km

WEL 13 04:50:40.5.0.9, 37:56S:18:0E, h12km, M3.6/25, ML3.9/28, MLV3.6/25, Error ellipse: s-maj=10.2km

RSPR 13 04:13:12.7.1.1, 18'23N:67.44W, h118km, MD3.0/15, OSPL 13 04:13:12.2.0.3, 18'23N:67.57W, h123km, 2km, ML2.3

IDC 13 04:21:04.0.4.10, MS3.7/3, 43:6'E, 0.1, h9km, n29, r1525/23, mb4.0/10

IDC 13 05:08:36.7.4.6, 2:48S:99:22E, h0km, mb3.6/4, mbmp3.6/4, Error ellipse: s-maj=183.0km

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like IDE Isla Deseccho, IDE Isla Deseccho, PRSN Puerto Rico Se, etc.

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like GRHM Grahamstown, FOMA Nahampoona Res, BOSHA Boshof, etc.

Table with columns: Code, Station Name, Az, El, P, S, R, Az, El, P, S, R. Includes stations like MBAZ Motutapu North, HIZ Hawaii, HIZ Hawaii, etc.





Table with columns: ASAR, Alice Springs, 60.67 106 P, P, 06 24 35.5 -1.5, comp=Z,2.4nm,0.8s,baz=258,slow=6.2,SNR=14

Table with columns: ASAR, Alice Springs, 41.88 259 P, P, 06 23 09.7 -1.2, comp=Z,0.7nm,0.4s,baz=92,slow=4.7,SNR=8.3

Table with columns: WRA, Warramunga Arr, 42.05 264 P, P, 06 27 13.3 +1.0, comp=Z,1.0nm,0.5s,baz=99,slow=7.6,SNR=14

Table with columns: WRA, Warramunga Arr, 47.68 259 P, P, 06 27 17.0 -0.5, comp=Z,0.8nm,0.8s,baz=96,slow=7.5,SNR=6.5

Table with columns: WRA, Warramunga Arr, 42.05 264 P, P, 06 27 13.3 +1.0, comp=Z,1.0nm,0.5s,baz=99,slow=7.6,SNR=14

Table with columns: WRR, Warramunga Arr, 44.29 262 P, P, 06 28 32.0 +0.1, comp=Z,4.1nm,0.7s

IDC 13 06:32:04.8:1.4,40:34N:51:92E,h0km,mb3.8/9, mbtmp3.9/17,ML3.9/8,MS2.7/1,Error ellipse: s-maj=26.3km s-min=9.5km az=167.0

Table with columns: GALA, Gala, 1.54 260 Op, ISC, 06 32 53.4 -1.6, comp=Z,1.5nm,0.4s

Table with columns: GALA, Gala, 1.54 260 Op, ISC, 06 32 53.4 -1.6, comp=Z,1.5nm,0.4s

Table with columns: GALA, Gala, 1.54 260 Op, ISC, 06 32 53.4 -1.6, comp=Z,1.5nm,0.4s

Table with columns: VSHL, Vashlovani, 4.38 279 P, P, 06 33 17.9 +2.8, comp=Z,0.2nm,1.0s

Table with columns: QZX, Qazax, Azerbai, 5.15 276 Pn, Pn, 06 33 26.7 +1.1, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: GNI, Gani, 5.68 267 Pn, Pn, 06 33 32.9 -4.3, comp=Z,2.2nm,0.3s,baz=325,slow=8.5,SNR=2.6

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like AK12, AK11, AK04, AK16, MW2, WVR, KURBB, etc.

IDC 13 07:29:41.1 ± 1.7, 38:17N:23:31E, h0km, mb3.6/3, mbmp3.7/3, Error ellipse: s-maj=65.7km s-min=29.4km az=156.0

THE 13 07:29:42.7, 38:18N:0.8:23:3E, h10km, 1km, M3.0/24, MLh3.0/24

ATH 13 07:29:42.4, 38:18N:23:32E, h15km, ML3.2/25, Manual Solution by A.Fokaefs First location: 2019/06/13 07:30:39, This location: 2019/06/13 10:39:42 ML

Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 0 km

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like LKR, LKR, NEO, NEO, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like KARY, KARY, KARY, PAIG, etc.

BUI 13 07:33:57.9, 20:80S:173:68W, h7km, mb5.5/15, mb5.3/38, MS4.9/10, Ms7.4/6.9

MOS 13 07:33:57.3, 0.9, 21:195S:174:32W, h10km, mb5.2/34, Error ellipse: s-maj=18.8km s-min=13.7km az=29.0

NEIC 13 07:33:58.1, 1.8, 21:2S:0.1:173:8W, 0.1, h10km, 1km, mb5.2/43, Error ellipse: s-maj=21.3km s-min=16.7km az=134.0

IDC 13 07:33:58.6, 0.4, 21:23S:174:33W, h0km, mb4.7/21, mbmp4.7/23, ML4.2/2, MS4.1/40, Error ellipse: s-maj=18.8km s-min=13.7km az=115.0

NOU 07:34:04.5, 20:84S:173:56W, h80km, mb4.9/17, Tonga Islands

GCMT 13 07:34:04.1, 0.3, 21:144S:0:173:84W, 0:02, h23km, MW5.0/81, Moment Tensor Solution. s35,c40; s81,c110; Duration: 0 Moment tensor: Scale 1016Nm; Mr3,28±.20; Mw-0.2±.13; Mw-3.0±.13; Mw1.2±.21; Mw-0.7±.06; Mw1.4±.15; Best double couple: Mo3.76400±.1016 NP1.0±.183.00000°, 632.00000°, 170.00000°. NP2: 0±.260000°, 680.00000°, 102.00000°. Principal axes: T 3.8750, P1g72.0000°, Azm325.0000°; N -0.2300, P1g11.0000°, Azm2000.0000°; P -3.6530, P1g14.0000°, Azm1070.0000°. nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 13 07:34:01.3, 0.6, 21:22S:0:173:72W, 0:05, h28km, 3km, h29km; P-P, n581, ±245/16569, mb5.180, MS4.2/46, 51C-24D, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like NIUE, NIUE, NIUE, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like DZM, DZM, DZM, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like RPZ, RPZ, RPZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like PMG, PMG, PMG, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like GUMO, GUMO, GUMO, etc.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res. Includes stations like MAJO, MAJO, MAJO, etc.

PEAOB	Petropavlovsk-	78.08 343	I	Amb	P	07 45 56.0	-1.2	
PEA0B						07 46 18.1		
PEAOB	comp-Z,25nm,1.1s							
PEAOB	Petropavlovsk-	78.08 343	eP		P	07 45 57.2	0.0	
PETK	Petropavlovsk-	78.08 343	P		P	07 45 58.8	-0.4	
PETK	Petropavlovsk-	78.08 343	P		P	07 45 58.0	+0.8	
PETK	comp-Z,7.9nm,0.9s,baz=181,slow=6.5,SNR=16				LR			08 18 07.2
S14K	Fog Glacier	78.175 52	P		P	07 45 58.8	+1.2	
YSS	Yuzhno-Sakhali	78.41 331	eP		P	07 45 58.7	-0.4	
YSS			e		P	07 46 10.6		
YSS			eS		S	07 55 47.9	-5.0	
YSS			ePPS		PPS	07 56 29.4		
YSS	comp-Z,20nm,0.9s				pmax			
YSS	comp-Z,200nm,3.6s				pmax			
YSS	comp-E,200nm,5.4s				smax			
YSS	comp-Z,200nm,16.0s				MLR			
NVAR	Mina Array Bea	78.88 41	P		P	07 46 06.5	+4.2	
NVAR	comp-Z,15nm,0.7s,baz=224,slow=8.7,SNR=86							
PMSA	Palme Station	79.00 156	LR		LR	08 15 03.6		
OHAK	Old Harbor	80.02 11	P		P	07 46 09.3	+1.7	
KSR5	Korea Array	80.13 317	P		P	07 46 09.1	+0.4	
KSR5	comp-Z,14nm,1.1s,baz=138,slow=5.7,SNR=36				LR			08 15 44.7
R18K	Karlu	80.15 10	P		P	07 46 09.9	+1.6	
R18K	baz=198							
KSAR	Wonju Array Be	80.15 317	P		P	07 46 07.5	-1.3	
KSAR	Wonju Array Be	80.15 317	P		P	07 46 07.6	-1.3	
J05D	Fort Rock, OR	80.28 36	I	Amb	I	07 46 10.1	+0.4	
J05D						07 46 14.8		
TUC	Tucson	80.34 50	P		P	07 46 14.5	+4.3	
TUC	comp-Z,24nm,0.9s				pmax			
Q17K	Contact Creek	80.58 9	P		P	07 46 12.3	+1.4	
Q17K	baz=197							
KDAK	Kodiak Island	80.68 11	LR		LR	08 15 18.7		
KDAK	Kodiak Island	80.68 11	P		P	07 46 12.9	+1.7	
O14K	Tiguykaiuvet M	80.85 6	P		P	07 46 13.6	+1.5	
O14K	baz=192							
Q16K	King Salmon	80.86 9	P		P	07 46 14.0	+1.9	
O15K	Ungalikthiuk R	80.94 7	P		P	07 46 14.2	+1.6	
O15K	baz=193							
INCN	Inchon	80.98 316	P		pmax	07 46 14.4	+1.0	
INCN	comp-Z,14nm,0.5s				pmax			
P16K	Nushagak River	81.02 8	P		P	07 46 13.2	+0.2	
P16K	Nushagak River	81.02 8	P		P	07 46 14.4	+1.4	
Q18K	Katmai Hardscr	81.09 10	P		P	07 46 15.1	+1.5	
Q18K	baz=198							
WVOR	Wild Horse Val	81.19 38	P		pmax	07 46 18.2	+3.7	
WVOR	comp-Z,11nm,1.0s				pmax			
P17K	Kvichak River	81.40 9	P		P	07 46 16.7	+1.7	
P17K	baz=196,SNR=11							
TYV	Tymovskoe	81.41 334	eP		P	07 46 16.5	+1.2	
TYV	comp-Z,11nm,1.0s				pmax			
N14K	Kuskokwak Cree	81.47 6	P		P	07 46 17.4	+2.0	
N14K	baz=191,SNR=8.6							
Q20K	Shuyak Island	81.49 11	P		P	07 46 17.5	+2.0	
Q20K	baz=200							
O16K	Kokwok River B	81.56 8	I	Amb	I	07 46 16.3	+0.4	
O16K	comp-Z,23nm,1.1s				I			
O16K	Kokwok River B	81.56 8	P		P	07 46 17.0	+1.1	
O16K	baz=195,SNR=9.8							
M11K	Mekoryuk	81.56 4	P		P	07 46 18.5	+2.6	
Q19K	Cape Douglas,	81.58 10	P		P	07 46 17.9	+1.9	
Q19K	baz=199							
P18K	Big Mountain,	81.77 9	P		P	07 46 17.0	-0.1	
P18K	comp-Z,36nm,1.2s				I			
P18K	Big Mountain,	81.77 9	P		P	07 46 18.4	+1.4	
P18K	baz=198,SNR=8.0							
M13K	Dall Lake	81.80 5	P		P	07 46 19.8	+2.7	
M13K	baz=190							
O17K	Koliganek Bris	81.86 8	P		P	07 46 19.4	+2.0	
O17K	baz=196,SNR=6.9							
USA0B	Ussuriysk Arra	81.87 324	eP		P	07 46 16.5	-1.4	
USRK	Ussuriysk Ar.	81.87 324	P		P	07 46 18.4	+0.5	
USRK	comp-Z,2.0nm,0.8s,baz=111,slow=7.8,SNR=7.4				LR			08 19 43.8
USRK	comp-Z,108nm,19.0s,baz=163,slow=34							
USRK	comp-Z,2.0nm,0.8s							
N15K	Kwethluk River	81.88 7	P		P	07 46 19.7	+2.1	
N15K	baz=193							
MAW	Mawson	82.19 199	P		P	07 46 19.4	+0.1	
MAW	comp-Z,6.5nm,1.0s,baz=136,slow=5.7,SNR=5.0				LR			08 22 07.1
O18K	Koktuh Hills	82.21 9	P		P	07 46 19.5	+0.1	
O18K	Koktuh Hills	82.21 9	P		P	07 46 21.2	+1.9	
M14K	Bethe	82.25 6	P		P	07 46 21.9	+2.4	
M14K	baz=191,SNR=12							
H03S2	Juan Fernandez	82.26 123	T		T	09 18 34.9		
H03S1	Juan Fernandez	82.27 123	T		T	09 18 17.2		
H03S1	baz=247,slow=7.4,SNR=7.2							
H03S3	Juan Fernandez	82.27 123	T		T	09 18 42.9		
H03S3	baz=247,slow=7.4,SNR=7.0							
M15K	Kasigluk River	82.33 6	P		P	07 46 22.3	+2.5	
M15K	baz=192,SNR=8.8							
N16K	Nishikih Lake	82.33 7	P		P	07 46 22.3	+2.4	
N16K	baz=194,SNR=8.8							
P19K	Oil Pt	82.33 10	P		P	07 46 21.6	+1.6	
P19K	baz=199							
H03N2	Juan Fernandez	82.39 123	T		T	09 18 47.4		
H03N3	Juan Fernandez	82.39 123	T		T	09 18 44.8		
H03N1	Juan Fernandez	82.40 123	T		T	09 18 43.2		
H03N1	baz=253							
N17K	Nushagak Hills	82.58 8	P		P	07 46 22.5	+1.3	
N17K	baz=196							
HOM	Home	82.61 11	P		P	07 46 23.2	+1.8	
HOM	baz=201							
O19K	Port Alsworth	82.67 10	P		P	07 46 22.0	+0.3	
O19K	Port Alsworth	82.67 10	P		P	07 46 23.4	+1.7	
L14K	Kuka Creek	82.77 5	P		P	07 46 24.6	+2.5	
L14K	baz=198							
M16K	Timber Creek	82.84 7	P		P	07 46 25.3	+2.7	
M16K	baz=194,SNR=27							
BRSE	Bradley Lake S	82.86 11	P		P	07 46 24.7	+2.0	
BRSE	baz=203							
N18K	Kilae Creek	82.90 9	P		P	07 46 24.5	+1.6	
N18K	baz=197							
K13K	Kusilvak Mount	83.20 4	P		P	07 46 26.9	+2.5	
K13K	baz=189,SNR=5.6							
L15K	Ungalak Mounta	83.21 6	P		P	07 46 26.6	+2.2	
L15K	baz=192							
BBB	Bella Bella	83.22 26	LR		LR	08 19 51.9		
BBB	comp-Z,106nm,18.1s,baz=224,slow=33							
N19K	Bonanza Creek	83.24 9	P		P	07 46 25.8	+1.0	
N19K	baz=198,SNR=10							
DUG	Dugway, Tooele	83.34 42	P		pmax	07 46 28.8	+3.9	
DUG	comp-Z,4.0nm,1.3s				pmax			
M17K	Holifna River	83.39 8	P		P	07 46 28.1	+2.7	
M17K	baz=195,SNR=11							
SEW	Seward	83.42 12	P		P	07 46 27.5	+1.9	
SEW	baz=203							
L16K	Owhat River	83.45 7	P		P	07 46 28.2	+2.5	
L16K	baz=193,SNR=23							

NJ2	Nanjing	83.46 308	eP		P	07 46 26.6	+0.1	
NJ2					pmax			
MDJ	Mudanjiang	83.47 323	P		pmax	07 46 27.3	+1.1	
MDJ	comp-Z,14nm,1.5s				pmax			
MDJ					pmax			
M18K	Stony River	83.69 9	P		P	07 46 29.2	+2.3	
M18K	comp-Z,220nm,8.6s							
P23K	Montague Island	83.75 13	P		P	07 46 29.5	+2.2	
P23K	baz=197,SNR=8.4							
K15K	Wolf Creek Mou	83.81 6	P		P	07 46 30.5	+3.0	
K15K	baz=205							
CRAG	Craig	83.84 22	P		P	07 46 31.0	+3.2	
CRAG	baz=218							
SPCR	Spurr Chakacha	83.97 10	P		P	07 46 30.1	+1.6	
SPCR	baz=200							
L17K	Donlin	84.00 7	P		P	07 46 31.6	+3.1	
L17K	baz=194,SNR=24							
J14K	Narvaranek Lak	84.09 5	P		P	07 46 31.4	+2.5	
J14K	baz=190,SNR=5.9							
TXAR	Lajitas Array	84.13 56	P		P	07 46 34.2	+4.1	
TXAR	comp-Z,2.9nm,1.0s,baz=207,slow=7.0,SNR=18				LR			08 17 55.9
TXAR	comp-Z,65nm,19.1s,baz=217,slow=31							
V35K	Ketchun	84.26 23	P		P	07 46 32.6	+2.6	
V35K	comp-Z,2.9nm,1.0s							
V35K	baz=219							
L18K	Granite Mounta	84.28 8	P		P	07 46 32.3	+2.3	
L18K	baz=196,SNR=18							
M19K	Big River Lodg	84.29 9	P		P	07 46 31.8	+1.8	
M19K	baz=193,SNR=7.5							
RC01	Rabbit Creek A	84.30 11	P		P	07 46 31.8	+1.7	
RC01	baz=202							
STLK	Strandline Lak	84.31 10	P		I	07 46 29.1	-1.1	
STLK	comp-Z,20nm,1.1s				I			
PLID	Pearl Lake	84.33 37	P		P	07 46 31.8	+0.9	
PLID	baz=200							
KAIM	Kayak Island	84.34 14	P		P	07 46 31.9	+1.6	
KAIM	baz=200							
PWL	Port Wells	84.35 12	P		P	07 46 32.0	+1.6	
PWL	baz=204,SNR=5.6							
U33K	Whale Pass	84.36 21	P		P	07 46 32.2	+1.8	
U33K	baz=218							
SIT	Sitka	84.39 20	P		P	07 46 32.1	+1.6	
SIT	baz=216							
M20K	Styx River	84.46 10	P		P	07 46 32.1	+1.1	
M20K	baz=199							
SUA	Susitna One	84.46 11	P		P	07 46 32.7	+1.7	
SUA	baz=200							
L19K	White Mountain	84.49 9	P		P	07 46 33.0	+2.0	
L19K	baz=198,SNR=6.0							
K17K	Iditarod	84.56 7	P		P	07 46 34.1	+2.8	
K17K	baz=194,SNR=15							
EYAK	Cordova Ski Ar	84.60 13	P		P	07 46 33.8	+2.2	
EYAK	baz=206							
GLI	Glacier Island	84.62 13	P		P	07 46 33.3	+1.6	
GLI	baz=205							
GAMB	Gambell	84.75 1	P</					

13d 7h

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like COLA, ILAR, J25K, N32M, etc.

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Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like TOLK, E25K, D23K, B21K, etc.

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Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like OBN, HFS, KIV, ERBR, MNK, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CAPC, LCBC, APAC, etc.

IDC 13 09:19:49.5:2.4, 30.95N:141.12E, h0km, mb3.8/6, mbtmp3.7/8, ML3.4/2, Error ellipse: s-maj=105.8km s-min=17.8km az=71.0

ISC 13 09:19:54.2:2.3, 30.93N:141.2E:0.7, h35km, n8, +071/8, mb3.8/6, Southeast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JCJ, MJAR, SONM, etc.

GCG 13 09:21:06.0:0.4, 13.40N:89.73W, h52km, 5km, MD3.3, SNET 13 09:21:06.6:1.2, 13.36N:89.73W, h53km, ML2.5

CATAC 13 09:21:06.6:0.5, 13.3N:4.9W, h34km, 3km, M2.5/18, ML2.5/18, Error ellipse: s-maj=8.8km s-min=5.0km az=24.1, confirmed, El Salvador

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JAYA, LALI, CEVE, etc.

NNC 13 09:27:41.7:6.5, 37.43N:70.48E, h0km, mb3.9, mpv3.6, 3C-1D, Error ellipse: s-maj=51.6km s-min=38.1km az=166.0, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KK31, AAK, AB31, etc.

MEX 13 09:28:45.1:0.9, 14.62N:94.28W, h16km, 1.3km, MD4.3, GCG 13 09:28:47.0:2.3, 14.63N:94.12W, h37km, 999km, MD4.4, ML3.8

ISC 13 09:28:42.6:1.4, 14.49N:0.08:94.31W:0.03, h35km, n37, +191/9, 63, Off coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PCIG, THIG, THIG, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like THIG, PATR, HUIG, etc.

IDC 13 09:35:10.0:3.2, 53.64N:87.96E, h0km, mbtmp2.7/2, ML2.5/2, Error ellipse: s-maj=29.5km s-min=22.4km az=88.0

ASRS 13 09:35:10.0:0.9, 53.61N:87.96E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

ISC 13 09:35:12.9:4.0, 53.6N:0.2:87.7E:0.2, h0km, n4, +192/5, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I46RU, ZALV, KURBB, etc.

KRNET 13 09:45:33.7:0.1, 40.74N:69.62E, mb2.6, ISC 13 09:45:32.5:3.1, 40.81N:0.06:69.5E:0.1, h18km, 7km, n6, +061/11, 7C-5D, Tajikistan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BTK, TRKS, DRK, etc.

STR 13 09:46:37.8:0.7, 46.3N:3.3E, h0km, ML2.1/6, Error ellipse: s-maj=0.0km s-min=0.0km az=64.7, preliminary, France

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like OG35, OGMV, OGSMT, etc.

GCG 13 09:56:28.0:5.0, 14.76N:92.22W, h71km, 8km, MD3.6, ML3.0

MEX 13 09:56:29.0:0.7, 14.58N:92.26W, h82km, 9km, MD3.9, ISC 13 09:56:25.0:2.2, 14.6N:0.1:92.10W:0.08, h96km, 12km, n14, +210/22, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SMCA, OGMV, OGSMT, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PAVE, STGB, STGO, etc.

HEL 13 10:09:53.9:0.1, 64.33N:28.12E, h0km, ML1.3, Explosion, IDC 13 10:09:54.3:1.8, 64.30N:28.38E, h0km, mbtmp2.7/2, ML1.8/2, Error ellipse: s-maj=38.9km s-min=8.7km az=93.0

ISC 13 10:09:51.6:0.9, 64.30N:0.03:28.14E:0.04, h0km, n20, +1803/18, Finland

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like RMF, RNF, NIF, etc.

ARCES ARCESS Array B 5.36 350 Pn Pn 10 11 15.4 +2.6

ARCES ARCES Array B 5.36 350 Pn Pn 10 12 13.0 -2.1

ARCES ARCES Array B 5.36 350 Pn Pn 10 12 33.7

I37NO I37NO 1.0 6.2 326 I I 10 46 20.0

MOS 13 10:34:29.2:0.9, 11.19N:142.94E, h11km, mb5.0/32, Error ellipse: s-maj=10.7km s-min=5.8km az=108.0

IDC 13 10:34:29.0:0.4, 11.20N:143.05E, h0km, mb4.6/25, mbtmp4.6/27, ML4.3/2, MS3.6/19, Error ellipse: s-maj=17.0km s-min=10.4km az=76.0

DJA 13 10:34:31.4:2.4, 11.1N:14.3E, h15km, 16km, M4.9/18, mb4.9/18, mb5.4/9, Mw(mb)4.9/9

BUI 13 10:34:31.0, 11.20N:142.90E, h10km, mb4.8/4, mb4.6/34, Ms4.3/9, Ms7.4/0/11

NEIC 13 10:34:31.8:1.6, 11.21N:0.03:142.9E:0.1, h10km, 1km, mb5.0/32, Error ellipse: s-maj=19.6km s-min=3.0km az=284.0

GCMT 13 10:34:34.8:0.4, 11.11N:0.02:142.98E:0.05, h21km, 1km, MW4.8/64, Moment Tensor Solution, s20,c21, s64,c82, Duration: 0 Moment tensor: Scale 1016Nm: Mw=1.57; 0.7; Mw=1.65; 1.0; Mw=0.08; 0.9; Mw=0.52; 1.3; Mw=0.17; 0.7; Mw=0.07; 2.4; Best double couple: Mw=1.692000\*10^16 NP1: 93.00000; -85.00000; -85.00000; NP2: 268.00000; 854.00000; -93.00000; Principal axes: T 1.7310, Plg9.0000; Azm0.0000; P -1.6540, Plg81.0000; Azm163.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 13 10:34:32.6:0.6, 11.15N:0.04:143.07E:0.06, h23km, 3km, Duration: 0 Moment tensor: Scale 1016Nm: Mw=1.57; 0.7; Mw=1.65; 1.0; Mw=0.08; 0.9; Mw=0.52; 1.3; Mw=0.17; 0.7; Mw=0.07; 2.4; Best double couple: Mw=1.692000\*10^16 NP1: 93.00000; -85.00000; -85.00000; NP2: 268.00000; 854.00000; -93.00000; Principal axes: T 1.7310, Plg9.0000; Azm0.0000; P -1.6540, Plg81.0000; Azm163.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GUMO, GUMG, GUMO, etc.

GENI GENI 13 10:34:32.6:0.6, 11.15N:0.04:143.07E:0.06, h23km, 3km, Duration: 0 Moment tensor: Scale 1016Nm: Mw=1.57; 0.7; Mw=1.65; 1.0; Mw=0.08; 0.9; Mw=0.52; 1.3; Mw=0.17; 0.7; Mw=0.07; 2.4; Best double couple: Mw=1.692000\*10^16 NP1: 93.00000; -85.00000; -85.00000; NP2: 268.00000; 854.00000; -93.00000; Principal axes: T 1.7310, Plg9.0000; Azm0.0000; P -1.6540, Plg81.0000; Azm163.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BAKI, JCJ, SWI, etc.

PMG Port Moresby 20.84 168 Pn Pn 10 39 17.2 +0.3

PMG Port Moresby 20.84 168 Pn Pn 10 39 17.2 +0.3

PMG Port Moresby 20.84 168 Pn Pn 10 39 17.2 +0.3

JOW Kunigami 20.88 320 P P 10 39 13.8 +0.5

KMSI Cibinong 21.63 242 P P 10 39 23.2 +1.7

THIG Retalhuleu 0.39 96 eS Sn 10 56 41.7 +1.8





13d 10h

F19K	Shalercukik Mo	67.96	22	P	P	10 45 29.8 +0.4
M20K	Styx River	68.03	27	P	P	10 45 30.4 +0.3
HOM	Home	68.07	30	P	P	10 45 30.6 +0.3
K20K	Telida	68.10	26	IAMB	IAMB	10 45 35.3
K20K	Telida	68.10	26	P	P	10 45 30.8 +0.3
SPCR	Spurr Chakacha	68.24	28	P	P	10 45 32.0 +0.6
C19K	Lookout Ridge	68.34	19	P	P	10 45 32.3 +0.4
J20K	Nownita River	68.35	25	IAMB	IAMB	10 45 51.2
E19K	Nownita River	68.35	25	P	P	10 45 32.5 +0.6
J20K	Redstone River	68.41	21	IAMB	IAMB	10 45 46.5
E19K	Redstone River	68.41	21	P	P	10 45 32.9 +0.6
I20K	Naaghdeneel	68.43	24	P	P	10 45 32.9 +0.5
H20K	Anotleneega Mo	68.52	23	P	P	10 45 33.7 +0.7
BRSE	Bradley Lake S	68.54	30	P	P	10 45 34.0 +0.8
D19K	Kuna River	68.55	20	IAMB	IAMB	10 45 47.2
D19K	Kuna River	68.55	20	P	P	10 45 33.4 +0.2
CAPN	Captain Cook N	68.61	29	P	P	10 45 34.2 +0.6
PPLA	Purkeypille	68.76	26	P	P	10 45 35.1 +0.4
SKT	Skwenta	68.78	27	IAMB	IAMB	10 45 38.4
SKT	Skwenta	68.78	27	P	P	10 45 34.8 +0.1
F20K	Avarant Lake	68.79	22	P	P	10 45 35.0 +0.4
BRZS	Berezni	68.90	319	eP	P	10 45 35.7 0.0
BRZS	Berezni	68.90	319	eP	P	10 45 35.8 0.0
CAST	Castle Rocks	68.97	26	IAMB	IAMB	10 45 40.0
CAST	Castle Rocks	68.97	26	P	P	10 45 35.9 +0.1
SUA	Susitna One	69.00	28	P	P	10 45 36.0 -0.2
CHUM	Lake Minchumin	69.01	25	P	P	10 45 36.3 +0.3
DZA	Taraz	69.09	312	eP	pmax	10 45 37.0 0.0
DZA	Taraz	69.09	312	eP	pmax	10 45 37.0 0.0
E20K	Nigu River	69.10	20	P	P	10 45 36.7 +0.1
IMAR	Indian Mountai	69.13	23	P	P	10 45 39.7 +2.9
D20K	Etiyuk River	69.14	20	P	P	10 45 37.1 +0.2
O22K	Cooper Landing	69.22	29	P	P	10 45 37.1 -0.3
SEW	Seward	69.26	30	P	P	10 45 37.1 -0.5
M22K	Willow	69.36	28	P	P	10 45 37.9 -0.3
RC01	Rabbit Creek A	69.37	29	P	P	10 45 37.8 -0.5
H21K	Melozitna Rive	69.39	23	P	P	10 45 38.0 -0.4
G21K	Alakaket	69.41	23	P	P	10 45 38.1 -0.5
CUTK	Chulitna	69.47	27	P	P	10 45 38.7 -0.2
KTH	Kantishna Hill	69.50	26	IAMB	IAMB	10 45 52.6
B20K	Meade River	69.51	19	P	P	10 45 38.6 -0.4
BPAW	Bear Paw Mtn.	69.64	25	IAMB	IAMB	10 45 44.6
BPAW	Bear Paw Mtn.	69.64	25	P	P	10 45 39.0 -1.0
GAR	Garm	69.64	307	IAMB	IAMB	10 45 42.0
F21K	Alatina River	69.67	22	P	P	10 45 40.1 0.0
KKAR	Karatay Array	69.70	312	P	P	10 45 40.8 0.0
KKAR	Karatay Array	69.70	312	P	P	10 45 40.8 0.0
TRF	Thorofare Moun	69.75	26	IAMB	IAMB	10 45 58.6
TRF	Thorofare Moun	69.75	26	P	P	10 45 40.2 -0.7
PMR	Palmer	69.78	28	IAMB	IAMB	10 45 44.5
PMR	Palmer	69.78	28	P	P	10 45 40.5 -0.3
C21K	Knifeblade Rid	69.92	20	P	P	10 45 41.3 -0.3
E21K	Kilikil River	69.93	21	P	P	10 45 41.6 -0.1
PWL	Port Wells	69.97	29	P	P	10 45 41.8 -0.3
IUG	Iuzhny	70.00	311	eP	pmax	10 45 42.8 +0.1
IUG	Iuzhny	70.00	311	eP	pmax	10 45 42.8 +0.1
MLY	Manley	70.01	24	IAMB	IAMB	10 45 56.4
MLY	Manley	70.01	24	P	P	10 45 42.1 -0.2
H22K	Ishlalina Cre	70.02	23	P	P	10 45 42.4 +0.1
KNK	Knik Glacier	70.05	28	P	P	10 45 42.8 +0.3
B21K	Ikpikuk River	70.16	19	IAMB	IAMB	10 45 48.1
B21K	Ikpikuk River	70.16	19	P	P	10 45 43.6 +0.6
BRLS	Boroiday	70.19	312	eP	P	10 45 44.3 +0.5
BRLS	Boroiday	70.19	312	eP	P	10 45 44.4 +0.5
SML	Sawmill	70.20	28	P	P	10 45 44.0 +0.5
A21K	Barrow	70.23	17	P	P	10 45 43.9 +0.5
P23K	Montague Islan	70.23	30	P	P	10 45 43.9 +0.2
F22K	John River	70.24	22	P	P	10 45 44.5 +0.9
G22K	Bettes	70.20	22	P	P	10 45 44.2 +0.3
CHM	Chimkent	70.32	311	eP	P	10 45 44.6 0.0
CHM	Chimkent	70.32	311	eP	P	10 45 44.7 0.0
WAT1	Susitna Watana	70.35	27	P	P	10 45 44.2 -0.2
RND	Reindeer	70.36	26	IAMB	IAMB	10 45 48.9
MCK	McKinley	70.41	26	IAMB	IAMB	10 46 03.2
MCK	McKinley	70.41	26	P	P	10 45 45.1 +0.4
M23K	Glacier View	70.47	28	P	P	10 45 45.4 +0.3
D22K	Aiyikyak River	70.53	20	IAMB	IAMB	10 45 60.0
D22K	Aiyikyak River	70.53	20	P	P	10 45 45.3 0.0
GLI	Glacier Island	70.57	29	IAMB	IAMB	10 45 50.0
GLI	Glacier Island	70.57	29	P	P	10 45 45.7 0.0
E22K	Anaktuvuk Pass	70.58	21	IAMB	IAMB	10 46 00.2
E22K	Anaktuvuk Pass	70.58	21	P	P	10 45 46.1 +0.4
NEA2	Nenana	70.58	25	P	P	10 45 45.8 +0.1
A22K	Sinclair Lake	70.59	18	P	P	10 45 45.8 +0.2
KBL	Kabul	70.60	303	P	P	10 45 46.2 -0.5
KBL	Kabul	70.60	303	P	pmax	10 45 49.6
KBL	Kabul	70.60	303	P	pmax	10 45 46.2 -0.5
I23K	Minto, Yukon-K	70.61	24	IAMB	IAMB	10 45 60.0

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I23K	Minto, Yukon-K	70.61	24	P	P	10 45 46.1 +0.2
Q23K	Middleton Isla	70.64	31	P	P	10 45 46.6 +0.5
WAT6	Susitna Watana	70.65	27	P	P	10 45 46.3 -0.1
SMIJ	Simiganj	70.66	307	IAMB	P	10 45 46.8 -0.1
SMIJ	Simiganj	70.66	307	IAMB	IAMB	10 45 48.2
SCM	Sheep Creek Mo	70.67	28	P	P	10 45 46.5 +0.1
H23K	Yukon River	70.72	24	P	P	10 45 46.8 +0.2
BVAR	Borovoye Array	70.72	322	P	P	10 45 47.0 +0.2
BVAR	Borovoye Array	70.72	322	LR	LR	11 19 46.4
BRVK	Borovoye	70.79	322	P	P	10 45 47.5 +0.3
BRVK	Borovoye	70.79	322	eP	pmax	10 45 47.3 +0.1
G23K	Bananza Creek	70.79	23	IAMB	IAMB	10 46 06.3
G23K	Bananza Creek	70.79	23	P	P	10 45 47.5 +0.5
DZET	Dzherino	70.80	307	P	pmax	10 45 48.3 +0.6
DZET	Dzherino	70.80	307	P	pmax	10 45 48.3 +0.6
B22K	Teshkepuk Lake	70.81	19	IAMB	IAMB	10 46 01.0
B22K	Teshkepuk Lake	70.81	19	P	P	10 45 47.3 +0.3
COLD	Coldfoot	70.88	22	IAMB	IAMB	10 46 02.0
COLD	Coldfoot	70.88	22	P	P	10 45 47.9 +0.4
DHY	Denali Highway	70.93	27	IAMB	IAMB	10 46 01.8
DHY	Denali Highway	70.93	27	P	P	10 45 48.1 0.0
EYAK	Cordova Ski Ar	71.15	30	IAMB	IAMB	10 45 53.6
EYAK	Cordova Ski Ar	71.15	30	P	P	10 45 49.5 +0.3
COLA	College	71.15	25j	eP	pmax	10 45 50.0 +0.2
COLA	College	71.15	25	P	pmax	10 45 49.4 +0.2
D23K	Nanushuk River	71.24	20	IAMB	IAMB	10 46 09.5
D23K	Nanushuk River	71.24	20	P	P	10 45 50.0 +0.3
KLU	Klutina	71.25	29	P	P	10 45 50.0 +0.1
M24K	Tolsona, Glenn	71.26	28	P	P	10 45 51.2 +1.3
M24K	Tolsona, Glenn	71.26	28	P	P	10 45 50.3 +0.3
E23K	Chandalar	71.34	21	P	P	10 45 50.9 +0.5
H24K	Noodor Dome	71.39	24	IAMB	IAMB	10 45 55.8
H24K	Noodor Dome	71.39	24	P	P	10 45 50.9 +0.2
POKR	Poker Plat Res	71.39	25	P	P	10 45 51.0 +0.4
HDA	Harding Lake	71.42	26	P	P	10 45 50.9 +0.1
TOLK	Toolik Lake Re	71.52	21	P	P	10 45 52.2 +0.7
IL31	Elieison Array	71.53	25	IAMB	IAMB	10 45 54.2
ILAR	Elieison Array	71.53	25	P	P	10 45 50.4 -1.1
ILAR	Elieison Array	71.53	25	P	P	10 45 50.2 -1.2
ILAR	Elieison Array	71.53	25	P	P	10 45 50.4 -1.1
C23K	Iklikil River	71.54	20	IAMB	IAMB	10 46 05.9
C23K	Iklikil River	71.54	20	P	P	10 45 52.2 +0.8
KAIM	Kayak Island	71.69	30	P	P	10 45 52.9 +0.4
E24K	Your Creek	71.75	22	P	P	10 45 53.0 +0.2
PAX	Paxon	71.75	27	IAMB	IAMB	10 46 06.2
PAX	Paxon	71.75	27	P	P	10 45 53.0 +0.1
G24K	Hadweenzic Riv	71.76	23	IAMB	IAMB	10 46 11.4
G24K	Hadweenzic Riv	71.76	23	P	P	10 45 53.1 +0.3
BMRM	Bremner River	71.78	29	IAMB	IAMB	10 45 58.1
BMRM	Bremner River	71.78	29	P	P	10 45 53.4 +0.3
HARP	HARP	71.78	28	P	P	10 45 53.6 +0.5
K24K	Donnelly Dome	71.79	26	P	P	10 45 53.2 +0.1
F24K	Squaw Lake	71.82	22	IAMB	IAMB	10 46 08.0
F24K	Squaw Lake	71.82	22	P	P	10 45 53.6 +0.4
N25K	Chitina, Valde	71.90	29	P	P	10 45 54.2 +0.4
D24K	Happy Valley	71.93	20	P	P	10 45 54.4 +0.6
J25K	Salcha River,	72.13	25	P	P	10 45 55.4 +0.2
R24K	Fraulin Bluff	72.14	20	P	P	10 45 55.7 +0.7
CIDG	Independent Ri	72.18	26	IAMB	IAMB	10 46 09.2
RIDG	Independent Ri	72.18	26	P	P	10 45 55.6 +0.1
GLB	Gilahina Butte	72.24	29	IAMB	IAMB	10 46 01.4
PRP	Porcupine Dome	72.26	25	P	P	10 45 56.1 +0.1
GLB	Gilahina Butte	72.29	30	P	P	10 45 57.0 +1.0
H25L	Birch Creek	72.31	24	P	P	10 45 56.4 +0.3
G25K	Bearman Lake	72.31	23	P	P	10 45 56.3 +0.2
VRDI	Verde Repeater	72.38	29	IAMB	IAMB	10 46 00.9
PRQE	Papeete2	72.43	113	eLR	LR	11 07 53.5
C27K	Cirque	72.47	30	P	P	10 45 57.3 -0.1
DOT	Dot Lake	72.51	27	IAMB	IAMB	10 46 02.8
SCRA	Sand Creek	72.60	26	P	P	10 45 57.7 -0.4
MCARA	McCarthy VSAT	72.60	29	P	P	10 45 59.3 +1.3
MCARA	McCarthy VSAT	72.60	29	IAMB	IAMB	10 46 02.9
F25K	Christian River	72.67	22	P	P	10 45 58.6 +0.6
L26K	Log Cabin Wild	72.72	27	IAMB	IAMB	10 46 03.4
L26K	Log Cabin Wild	72.72	27	P	P	10 45 59.0 +0.3
M26K	Nabesna, AK	72.78	28	P	P	10 46 00.3 +1.2
M26K	Nabesna, AK	72.78	28	P	P	10 45 59.2 +0.2
E25K	Arctic Village	72.82	22	P	P	10 46 00.2 +1.1
E25K	Arctic Village	72.82	22	IAMB	IAMB	10 45 18.3
E25K	Arctic Village	72.82	22	P	P	10 45 58.7 -0.4
D25K	Kavik River	72.82	21	P	P	10 45 59.5 +0.3
J26L	Joseph Creek	72.86	26	P	P	10 45 59.7 +0.1
MESA	MESA	72.95	30	P	P	10 45 59.7 -0.7
BMAR	Burnt Mountain	73.03	23	P	P	10 46 01.4 +0.9
I26K	Coal Creek Min	73.19	25	P	P	10 46 00.9 -0.5
G26K	Porcupine Rive	73.24	23	P	P	10 46 01.8 +0.2

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G26K	Porcupine Rive	73.24	23	P	P	10 46 01.2 -0.4
F26K	Sheenijer River	73.25	22	IAMB	IAMB	10 46 21.5
F26K	Sheenijer River	73.25	22	P	P	10 46 01.3 -0.5
M27K	Edge Creek, AK	73.28	28	P	P	10 46 02.1 0.0
CTG	China Glacier	73.35	30	P	P	10 46 01.8 -0.8
L27K	Beaver Creek,	73.41	27	P	P	10 46 02.7 0.0
BCAR	Beaver Creek A	73.43	27	P	P	10 46 03.1 +0.2
K27K	Chicken	73.44	26	P	P	10 46 03.6 +0.7
LOGN	Logan Glacier	73.50	30	P	P	10 46 04.4 +0.9

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, ISC. Includes stations like N32M Quiet Lake, U33K Whale Pass, CRAG Craig, P33M Teslin, Yukon, Q32M Nakina River, ARTI Arti, WRAK Wrangell Island, M29M Somme Creek, F31M Tsigeitchic, R31K City Hall, Gus, YUK6 Outpost Mounta, YUK4 Paultuk, S32K Killisnoo, EPYK Eagle Plains, EPYK Eagle Plains, WRAK Wrangell Island, P29M Windy Craggy, G30M I'Aoh Zraii Nji, G30M Mount Kennedy, DAWY Dawson, DAWY Dawson, C36M Paultuk, C36M Pelican, S31K Pelican, F30M Barrier River, YUK8 Steele Glacier, H29M Whitestone, SIT Sitka, G29M Pine Creek, YUK3 Moose Creek, V35K Ketchikan, O28M Miner Creek, I28M Mount Upton, PNL Peninsula, PINM Pinnacle, L27K Beaver Creek, CTG China Glacier, M27K Edge Creek, AK, K27K Chicken, I27K Kank River, E29M Blow River, H27K Steamboat Moun, F28M Old Crow, G27K Doyon Strip, MCARA McCarthy VSAT, I26K Coal Creek Min, J26L Joseph Creek, E28M Babbage River, CRQE Cirque, SCRK Sand Creek, E27K Coleen River, RIDG Independent Ri, N25K Chitina, Valde, G26K Porcupine River, J25K Salcha River, PAX Paxson, A36M Sachs Harbour, D27M Malcolm River, PRP Porcupine Dome, F26K Sheenjek River, M24K Tolsona, Glenn, KLU Klutina, H25L Birch Creek, ILAR Eielson Array, ILAR Hood Dome, HDA Harding Lake, G25K Beardman Lake, F25K Christian River, E25K Arctic Village, C27K Jago River, H24K Noodin Dome, G24K Hadweenzic Riv, F24K Squaw Lake, D25K Kavik River, H23K Yukon River, PMR Palmer, E24K Your Creek, TRF Thorofare Moun, G23K Bananza Creek, MLY Manley, E23K Chandalar, COLD Coldfoot, BPAW Bear Paw Mtn, TOLK Toolik Lake Re, H22K Ishaltina Cre, C24K Franklin Bluff, G22K Bettles, D23K Nanushuk River

HEL 13 10:57:32.1-0.3, 67.44N:22:14E, h0km, ML1,3, Explosion, Sweden

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, ISC. Includes stations like PAJU Pajala, PAJU Lannavaara, LANU Lannavaara, KLF Kallari, KLF Ertisaerv, ERTU Ertisaerv, HEF Hetta, HEF Hetta, HEF Hetta, HEF Saltoluokta, SALU Saltoluokta, TOF Tornio, KTK1 Kautokeino, KIF Kipiljajarvi, KIF Kipiljajarvi, KIF Kalix, KALU Kalix, RANF Ranua, ARA0 ARCESS Array S, ARA0 ARCESS Array S, RAJF Raja-Jooseppi, VRF Vario, VRF Kevo, KEV Kevo, KEV Kevo, OBFO Syolatti, OBFO Syolatti

IDC 13 11:19:31.4-0.9, 62.11N:123.80W, h0km, mb3.4/4, mbmp3.5/7, ML2.7/3, MS3.2/3, Error ellipse: s-maj=21.6km s-min=10.0km az=8.0

ANF 13 11:19:31.9-0.5, 62.01N:123.85W, h33km, mb3.5/5km, Error ellipse: s-maj=2.2km s-min=1.1km az=73.0

ISC 13 10:57:32.1-0.3, 67.44N:22:14E, h0km, ML1,3, Explosion, Sweden

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, ISC. Includes stations like WRGLY Wrigley, WRGLY Wrigley, KOTAN Kotaneleele Air, KIRV Kirov, YKAW3 Yellowknife Wh, YBH Yreka Blue Hor, YKA Yellowknife Ar, YKA Yellowknife Ar, YKA Yellowknife Ar, YKA Yellowknife Ar, J04A Umpqua Nationa, SPITS Spitsbergen Ar, SPITS Spitsbergen Ar, PINE Pine Mountain, B08A Colville Reser, KLMR Klimovskoek, RES Resolvo, BEKR Beckworth, NEW Newport, NEW Newport, NEW Newport, NEW Newport, MPK Martis Peak, WVOR Wild Horse Val, WVOR Wild Horse Val, PNTR Pine Nut, PAHR Pah Rah Range, ARCES ARCESS Array B, BMO Blue Mountains, VNDA Vanda, VNDA Vanda, VNDA Vanda, VNDA Vanda, KBZ Khabaz, RYN Ryan, LHV Little Huntton, PLID Pearl Lake, NVAR Mina Array Bea, OBN Obninsk, HLID Halley, ELK Elko, QSM Queen of Sheba, TPNV Topopah Spring, FINES FINESS Array B, YHL Hebgon Lake, V12A Nelson, RLMT Red Lodge, HFS Hagfors, NOA NORSAF Array B, QSPA South Pole Qui, SYO Syowa Base, PLCA Paso Flores, DBIC Dimbokro, GO02 Mino Guanaco, PB16 IPOC Station P, PB18 Visivri, LPAZ La Paz, CPUP Villa Florida

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Purkeypile, Anaktuvuk Pass, Melozitna Rive, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HAKT, HAKKARI, HAKT, etc.

ISK 13 11:28:51.8, 40:75N:25:24E, h6km, ML2.8/24

AFAD 13 11:28:52.6, 40:70N:25:27E, h7km, 3km, ML2.7

ATH 13 11:28:52.2, 40:73N:25:23E, h13km, 1km, ML2.8/12

Manual Solution by G. Panopoulou First location: 2019/06/13 11:30:08, This location: 2019/06/13 14:04:44

ML2h.6/8, Aegean Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like THAS, RDO, RHO, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KRBG, HORT, HORT, etc.

IPEC 13 11:42:56.3, 0.2, 51:55N:16:16E, h1km, ML3.0/7, Error ellipse: s-maj=2.4km s-min=1.2km az=63.0

IDC 13 11:42:58.0, 0.6, 51:43N:16:05E, h0km, mbtmp3.3/7, ML2.9/7, Error ellipse: s-maj=13.8km s-min=6.0km az=113.0

BGR 13 11:42:58.3, 0.4, 51:48N:16:13E, h1km, ML3.3/14, Error ellipse: s-maj=5.6km s-min=2.2km az=14.0

DNK 13 11:42:58.0, 2.1, 51:74N:16:56E, h0km, 87km, ML2.5

PRU 13 11:42:59.7, 51:43N:16:16E, h0km

ISC 13 11:42:55.8, 0.6, 51:58N:0:03, 16:17E, 0.02, h0km, m71, r134/138, Poland

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KSP, KSP, KSP, etc.

ISK 13 11:20:35.9, 38:03N:42:59E, h5km, ML2.9/9

AFAD 13 11:20:36.5, 38:03N:42:57E, h3km, 2km, ML2.8

ISC 13 11:20:36.6, 0.9, 38:03N:0:03, 42:58E, 0:03, h8km, 7km, n17, r0961/30, Turkey

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PERV, PERV, PERV, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like UKOP, COMU, EFS, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like VRAC, VRAC, VRAC, etc.





















Table with columns: Code, Station Name, Az, El, Pn, Res. Rows include CAICARA DEL OR, Bethesda, Anti, El Baul, etc.

KOLA 13 15:55:31.8, 67.64N:34.04E, h0km, ML2.2, Error ellipse: s-maj=2.4km s-min=1.1km az=130.0, Khibiny, mines Koashva, Nyurkapk

HEL 13 15:55:31.7, 0.2, 67.73N:33.97E, h0km, ML1.8, Suspected explosion
IDC 13 15:55:34.2, 2.8, 67.57N:33.48E, h0km, mbmp2.9/2, ML1.9/2, Error ellipse: s-maj=31.6km s-min=12.2km

ISC 13 15:55:30.8, 0.9, 67.64N:0.04, 34.14E, h0km, n28, a112/46, Baltic States-Belarus-Northwestern Russia

Main table for station data with columns: Code, Station Name, Az, El, Pn, Res. Rows include APA, APATITY, APATITY ARRAY, etc.

NEIC 13 16:05:06.4, 1.3, 15.49S:0.10, 166.3E:0.2, h10km, 2km, mb4.2/10, Error ellipse: s-maj=28.8km s-min=13.9km az=68.0

IDC 13 16:05:06.9, 1.9, 15.55S:165.99E, h0km, mb3.9/3, mbmp3.9/4, ML3.7/1, Error ellipse: s-maj=226.1km s-min=36.3km az=57.0

NOU 13 16:05:09.2, 15.45S:167.33E, h104km, MLV4.2/8, Vanuatu Islands
ISC 13 16:05:06.7, 1.0, 15.36S:0.09, 166.44E:0.10, h29km, n19, a088/21, mb3.9/8, Vanuatu Islands

Table with columns: Code, Station Name, Az, El, Pn, Res. Rows include VLAKA, WARRAMUNGA ARR, WARRAMUNGA ARR, etc.

SJA 13 16:12:28.8, 1.2, 28.70S:71.47W, h60km, ML4.6, MW4.4
NIC 13 16:12:31.9, 28.72S:71.11W, h60km
GUC 13 16:12:31.6, 0.9, 28.81S:71.05W, h60km, 3km, ML4.8
IDC 13 16:12:32.7, 0.4, 28.73S:71.10W, h60km, 2km, mb4.1/12, mbmp4.4/12, MS3.3/5, Error ellipse: s-maj=18.0km s-min=9.1km az=62.0

NEIC 13 16:12:32.2, 2.3, 28.73S:0.03, 71.12W:0.08, h60km, 4km, mb4.7/20, Mwr4.3/31, Mwr4.8(GUC), Error ellipse: s-maj=9.6km s-min=4.5km az=95.0, Moment Tensor Solution. Moment tensor: Scale 10^19Nm, Mrr=2.1; Mss=1.35; Mss=0.79; Mss=0.63; Mss=2.53; Mrr=1.57; Fault plane solution: M3.58000+0.015; NP1=163.70000; s61.66000, lambda=45.44000; NP2=279.44000, delta=1.60000;

lambda=142.45000; Principal axes: T 3.6819, P16g.00000; Azm24.00000; N -0.2156, P18g.00000; Azm319.00000; P -3.4664, P15g1.00000; Azm126.00000; VAO 13 16:12:35.3, 1.4, 28.73S:70.49W, h10km, mb4.3
ISC 13 16:12:31.5, 0.3, 28.73S:0.03, 71.24W:0.04, h61km, 2km, h62km, pp-P, n173, a199/228, mb4.7/23, 10C-7D, Near coast of central Chile

Main table for station data with columns: Code, Station Name, Az, El, Pn, Res. Rows include LLANOS DE CHAL, LAS CAMPANAS, LA SERENA, etc.

Main table for station data with columns: Code, Station Name, Az, El, Pn, Res. Rows include MT13, MTO1, LML, IPOC STATION P, etc.

13d 16h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DBIC Dimbokro, MAW Mawson, PDAR Pinedale Array, etc.

IDC 13 16:14:14.2.1.1, 7.32N, 127.35E, h0km, mb3.6/5, mbmp3.6/5, Error ellipse: s-maj=21.7km s-min=15.5km az=3.0

ISC 13 16:14:19.1.0, 7.3N, 127.3E, 0.2, h41km, n6, s1943/7, mb3.5/5, Philippine Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DAV Davao City (W), WRA Warramunga Arr, etc.

NMC 13 16:24:53.4.3.9, 37.03N, 69.69E, h0km, mb4.5, mpv4.3, Error ellipse: s-maj=30.4km s-min=29.3km az=13.0

IDC 13 16:24:54.2.2, 6.37N, 70.69E, h188km, 62km, mb3.2/2, mbmp3.8/7, Error ellipse: s-maj=59.3km s-min=39.6km az=44.0

ISC 13 16:24:54.9.1.6, 36.5N, 0.1x70.5E, 0.2, h200km, n23, s131/25, 5C-2D, Hindu Kush region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like AML Almayashu, MRKS Merke, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KK31 22nm, 0.8s, baz=189, slow=27, EKS2 Erkin-Say, etc.

NEIC 13 16:28:31.1.2.5, 36.06S, 0.09, 179.2W, 0.1, h10km, 1km, mb4.4/8, Error ellipse: s-maj=18.5km s-min=10.8km az=138.0

WEL 13 16:28:36.8.0.9, 36.8S, 8.17W, h147km, 21km, M4.0/12, ML4.4/10, MLv4.0/12, Error ellipse: s-maj=12km s-min=8.3km az=41.4, confirmed

IDC 13 16:28:37.0.6.0, 36.03S, 179.21W, h65km, 47km, mb3.6/3, mbmp4.0/6, ML3.6/3, Error ellipse: s-maj=43.7km s-min=26.5km az=61.0

NOU 13 16:28:38.3.36.33S, 179.45W, h0km, MLv4.2/10, East of North Island, N4.7

ISC 13 16:28:34.7.1.8, 36.13S, 0.07, 178.9W, 0.1, h64km, 15km, n74, s169/94, mb4.2/6, East of North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Code Station Name, Matakaoa Point, etc.

URZ 22nm, 0.4s, baz=49, slow=19, SNR=4.0, 9.4nm, 0.4s

URZ Urewera 3.80 235 P Pn 16 29 31.4 +0.6

URZ Urewera 3.80 235 P Pn 16 29 31.7 +0.8

URZ Shannon Station 3.97 227 S S 16 29 31.4 -0.2

URZ Urewera 3.80 235 P Pn 16 29 31.4 +0.6

URZ Urewera 3.80 235 P Pn 16 29 31.7 +0.8

URZ Shannon Station 3.97 227 S S 16 29 31.4 -0.2

URZ Urewera 3.80 235 P Pn 16 29 31.4 +0.6

URZ Urewera 3.80 235 P Pn 16 29 31.7 +0.8

URZ Shannon Station 3.97 227 S S 16 29 31.4 -0.2

URZ Urewera 3.80 235 P Pn 16 29 31.4 +0.6

URZ Urewera 3.80 235 P Pn 16 29 31.7 +0.8

670

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ARMA Armidale, BBOO Buckleboe, etc.

IDC 13 16:41:44.4.1.5, 33.21S, 72.36W, h0km, mb4.0/3, mbmp3.7/7, ML3.7/4, MS3.1/3, Error ellipse: s-maj=32.1km s-min=25.1km az=108.0

GUC 13 16:41:43.6.0.8, 33.20S, 72.04W, h36km, 4km, ML3.9

ISC 13 16:41:44.9.1.8, 33.14S, 0.04, 72.11W, 0.06, h3km, 10km, n40, s111/53, Off coast of central Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Code Station Name, Torpederas, etc.

ROCH El Roble 0.94 80 eP Pn 16 42 07.7 -0.5

ROCH Popeta 1.02 135 eP Pn 16 42 05.5 -0.6

MT09 Talagante 1.13 124 eP Pn 16 42 07.5 -0.3

MT05 Renca 1.18 103 eP Pn 16 42 08.2 +0.7

MT02 Peldehue 1.20 91 eP Pn 16 42 23.9 +0.5

MT10 Hacienda Santa 1.33 96 eP Pn 16 42 11.2 +0.8

MT14 Cerro Calin 1.34 101 eP Pn 16 42 11.1 +0.4

MT16 San Esteban 1.36 74 eP Pn 16 42 11.5 +0.5

MT15 Las Vizcachas 1.42 109 eP Pn 16 42 12.2 -0.0

MT12 Pirque 1.43 115 eP Pn 16 42 12.3 -0.1

BO01 Tunca 1.51 146 eP Pn 16 42 12.8 -0.8

BO04 La Punta 1.51 124 eP Pn 16 42 13.4 -0.3

FCH Farellones 1.54 97 eP Pn 16 42 14.5 0.0

MT13 San Alfonso 1.64 112 eP Pn 16 42 15.7 -0.2

MT04 Ro Olivares 1.68 100 eP Pn 16 42 16.3 -0.2

LM04 Las Melosas 1.74 114 eP Pn 16 42 17.5 -0.2

MT08 Bocatombo 1.78 100 eP Pn 16 42 18.2 -0.1

CFA Coronel Fontan 3.62 66 Pn Pn 16 42 45.8 -3.8

H03S1 Juan Fernandez 5.72 261 T T 16 49 25.5

H03S2 Juan Fernandez 5.72 261 T T 16 49 22.0

PLCA WAKE ISLAND Hyt25.73 270 T T 16 43 37.7 -0.1

CPUP Villa Florida 14.52 66 Pn Pn 16 45 13.1 +1.7

IDC 13 16:47:47.4.1.8, 31.03N, 77.00E, h0km, mb3.6/4,



az=163.6,confirmed
ISC 13 17:34:37.0+1.4, 8.27N,0.04,-82.84W,0.03,h11km,11km,
n57,c0578/61,4C-10D, Panama-Costa Rica border
region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like LIMNES, CDITO, SCZRO, NELY, etc.

NEIC 13 18:27:32.5+1.3, 10.17S,0.09,-161.3E,0.1,h100km,9km,
mb4-4/11, Error ellipse: s-maj=15.6km s-min=12.8km
az=69.0

ISC 13 18:27:32.0+1.6, 10.13S,161.33E,h102km,9km,mb3.4/4,
mbtmp3.9/5,MS3.4/1, Error ellipse: s-maj=30.3km
s-min=13.5km az=42.0

ISC 13 18:27:30.8+0.7, 10.24S,0.08,-161.33E,0.10,h85km,n21,
a150/26,mb4.2/10, Bougainville-Solomon Islands
region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like HNR, RABL, DZM, WRA, ASAR, etc.

NEIC 13 18:45:56.4+1.0, 17.7S,0.3,178.39W,0.08,h582km,15km,
mb4.2/14, Error ellipse: s-maj=38.4km s-min=8.6km
az=169.0

ISC 13 18:45:59.3+2.0, 17.43S,178.89W,h589km,18km,mb3.2/6,
mbtmp4.1/8, Error ellipse: s-maj=84.3km s-min=19.3km
az=149.0

ISC 13 18:45:57.4+0.7, 17.7S,0.1,176.5W,0.1,h600km,n28,
a158/29,mb4.1/14, Fiji Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like MSVF, FUTU, AFI, etc.

Table with columns: ARMA, Armidale, 29.99 239, P, Iamb, Iamb, 18 51 19.4 +0.1, 18 51 42.2, etc.

AUST 13 19:17:17.4+0.3, 32.2S,2.13,139E,1.1,h10km,mb4.0/1,
ML2,0/3, Error ellipse: s-maj=5.4km s-min=4.9km
az=109.2

ISC 13 19:17:18.5+5.4, 31.46S,138.72E,h0km,mbtmp2.6/3,
ML2,0/3, Error ellipse: s-maj=100.3km s-min=18.4km

ISC 13 19:17:16.6+0.8, 31.80S,0.04,-138.52E,0.04,h10km,n16,
a1579/24, South Australia

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like YAPP, LCRK, STKA, etc.

ISC 13 19:35:47.1+4.6, 14.59S,167.28E,h182km,38km,mb3.3/6,
mbtmp3.8/7, Error ellipse: s-maj=32.9km s-min=26.6km
az=27.0

ISC 13 19:35:45.8+1.2, 14.55S,0.1,167.3E,0.2,h170km,n8,
a079/9,mb3.6/6, Vanuatu Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like DZM, DZM, STKA, WRA, etc.

ISC 13 20:12:53.5+1.9, 2.09S,127.28E,h0km,mb3.2/2,
mbtmp3.2/3,ML3.0/1, Error ellipse: s-maj=167.6km
s-min=28.5km az=72.0, Ceram Sea

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like WRA, ASAR, SONM, etc.

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like KZN, KZN, NEST, NEST, etc.

ISC 13 20:43:26.1+2.3, 28.33S,177.31W,h0km,mb3.8/2,
mbtmp3.8/2,MS3.8/2, Error ellipse: s-maj=64.6km
s-min=45.3km az=59.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like DZM, ASAR, VNSA, etc.

NEIC 13 20:52:42.8+2.1, 30.83N,0.05,-114.14W,0.05,h100km,2km,
mb4-4/15, Error ellipse: s-maj=9.9km s-min=5.7km

ECX 13 20:52:44.6+0.4, 30.78N,114.17W,h5km,4km,ML4.3
ISC 13 20:52:44.5+1.1, 30.80N,113.82W,h0km,mb3.8/9,
mbtmp3.7/16,ML3.7/7,MS3.5/25, Error ellipse:
s-maj=18.5km s-min=8.7km az=31.0

ISC 13 20:52:43.1+0.6, 30.76N,0.03,-114.18W,0.03,h10km,
n100,a1574/83,mb4.2/10,MS3.6/17,7C-3D, Gulf of
California

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like SFX, SFX, SFX, etc.

SOX San Quintin 1.48 263f eP Pn 20 53 09.3 -0.5
SFX SFX 1.48 263f eS Sb 20 53 29.8 -0.2

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like 214A, 214A, etc.

PFO comp=E,1.5nm,0.3s,baz=155,slow=14,SNR=10
PFO comp=E,5.9nm,0.3s,baz=82,slow=17,SNR=4.7

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res. Lists stations like 319A, X16A, etc.

Table with columns: ANMO, Lg, Lg, 20 56 42.6, etc. Includes station names like Van Horn, Sierra La Lagu, Moxie City, etc.

Table with columns: ZON, eS, S, 21 13 59.1, etc. Includes station names like San Juan, Reserva Natura, Leoncito, etc.

Table with columns: PBO9, IPOC Station P, 9.40 357, etc. Includes station names like PBO9, PLCA, PBO1, etc.

Code Station Name Az AZZ Phase ID h m s ISC Time Res ISC
RTLL Cerro Villicun 0.24 116 eP S 21 13 46.4 +0.2
RRTL Zonda 0.32 173 Pn S 21 13 46.8 +0.2
ZON Zonda 0.32 173 S S 21 13 46.8 +0.2
ZON Zonda 0.32 173 S S 21 13 46.8 +0.2





NEIC 13 22:50:10.5, 30.43S; 71.56W, h50km, Moment Tensor Solution. Duration: 187. Moment tensor: Scale 10<sup>16</sup>Nm; M<sub>rr</sub>:3.59; M<sub>θθ</sub>:0.18; M<sub>φφ</sub>:3.42; M<sub>θφ</sub>:0.29; M<sub>φθ</sub>:0.58; Fault plane solution: M<sub>33</sub>:5.90000e+16; N<sub>1</sub>:0.31000e+16, δ<sub>40</sub>:260000°, λ<sub>98</sub>:430000°. NP2:0.169, 320000°, δ<sub>50</sub>:260000°, λ<sub>82</sub>:920000°. Principal axes: T 3.6833, P1g3.00000, Azm37.00000; N -0.1876, P1g5.00000, Azm174.00000; P -3.4958, P1g5.00000, Azm264.00000.

GUC 13 22:50:11.1, 1.0, 7.30, 44S; 71.33W, h55km, 1km, ML4.9  
NEIC 13 22:50:11.1, 1.1, 30.44S; 0.03; 71.38W, 0.06, h48km, 4km, m2=9/268, Mw=5.027, Mw=5.0(GUC), Error ellipse: s-maj=7.1 km s-min=3.9 km s-az=91.0

BJI 13 22:50:12.0, 30.40S; 71.40W, h49km, Ms5.1/4, Ms7.5/0.4  
GCMT 13 22:50:14.1, 0.3, 30.46S; 0.02; 71.52W, 0.03, h63km, 2km, Mw=5.0/69, Moment Tensor Solution. s59,c74; s69,c89; Duration: 0 Moment tensor: Scale 10<sup>16</sup>Nm; M<sub>rr</sub>:7.3±.15; M<sub>θθ</sub>:0.6±.14; M<sub>φφ</sub>:4.3±.13; M<sub>θφ</sub>:0.6±.09; M<sub>φθ</sub>:0.6±.11; M<sub>rr</sub>-1.29±.14; Best double couple: M<sub>33</sub>:3.65000e+16; NP1:0.2, 0.00000°, δ<sub>37</sub>:0.00000°, λ<sub>105</sub>:0.00000°. NP2: 0.164, 0.00000°, δ<sub>55</sub>:0.00000°, λ<sub>79</sub>:0.00000°. Principal axes: T 4.0330, P1g7.00000, Azm38.00000; N 0.6610, P1g9.00000, Azm170.00000; P -4.6980, P1g9.00000, Azm262.00000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 13 22:50:10.7, 0.4, 30.41S; 0.02; 71.45W, 0.04, h49km, 3km, h49km; p-P, n588, i529/610, mb4.9/152, MS4.3/21, 13C-16D, Near coast of central Chile

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
CO06	Fray Jorge	0.30	211	Op	Pn	22 50 20.4 +0.7
CO06	Fray Jorge	0.30	211	iP	Pn	22 50 23.4 +0.9
CO06	Fray Jorge	0.30	211	eS	Pn	22 50 27.9 +1.7
CO05	La Serena	0.53	21	eP	Pn	22 50 22.9 +0.8
CO05	La Serena	0.53	21	eS	Pn	22 50 31.0 +0.7
CO05	La Serena	0.53	21	eP	Pn	22 50 22.9 +0.8
CO05	La Serena	0.53	21	eS	Pn	22 50 31.5 +1.1
CO05	La Serena	0.53	21	eP	Pn	22 50 33.4
GO04	Tololo Observa	0.61	67	eP	Pn	22 50 23.4 -0.1
GO04	Tololo Observa	0.61	67	eS	Pn	22 50 32.1 -0.6
GO04	Tololo Observa	0.61	67	iP	Pn	22 50 23.3 -0.2
GO04	Tololo Observa	0.61	67	eS	Pn	22 50 23.3 -0.2
GO04	Tololo Observa	0.61	67	eP	Pn	22 50 32.3 -0.5
GO04	Tololo Observa	0.61	67	eP	Pn	22 50 23.0 -0.5
CO03	El Pedregal	0.78	123	iP	Pn	22 50 24.7 -0.9
CO03	El Pedregal	0.78	123	eP	Pn	22 50 34.8 -1.6
CO03	El Pedregal	0.78	123	iP	Pn	22 50 24.8 -0.9
CO03	El Pedregal	0.78	123	iP	Pn	22 50 34.4 -2.0
CO03	El Pedregal	0.78	123	iP	Pn	22 50 36.1
CO03	El Pedregal	0.78	123	eP	Pn	22 50 24.6 -0.9
CO03	El Pedregal	0.78	123	eP	Pn	22 50 42.1
CO02	Combarbal	0.88	154	eP	Pn	22 50 26.6 -0.3
CO02	Combarbal	0.88	154	iP	Pn	22 50 37.8 -0.9
CO02	Combarbal	0.88	154	eP	Pn	22 50 26.6 -0.3
CO02	Combarbal	0.88	154	eP	Pn	22 50 37.9 -0.9
CO02	Combarbal	0.88	154	eP	Pn	22 50 26.6 -0.5
CO01	Juntas del Tor	1.25	70	eP	Pn	22 50 32.2 +0.2
LC0	Las Campanas	1.54	25	eP	Pn	22 50 36.6 +0.6
LC0	Las Campanas	1.54	25	eP	Pn	22 50 55.4 +0.4
LC0	Las Campanas	1.54	25	eP	Pn	22 50 36.8 +0.8
LC0	Las Campanas	1.54	25	eP	Pn	22 50 45.8 +0.4
LC0	Las Campanas	1.54	25	eP	Pn	22 50 36.7 +0.7
LC0	Las Campanas	1.54	25	eP	Pn	22 50 56.1 +1.1
LC0	Las Campanas	1.54	25	eP	Pn	22 50 36.1 +0.1
LC0	Las Campanas	1.54	25	eP	Pn	22 51 02.4
AR0D	Rodeo	1.73	82	eP	Pn	22 50 40.6 +2.0
ACDV	Cuesta del Vie	2.03	84	eP	Pn	22 50 45.2 +2.6
ACDV	Cuesta del Vie	2.03	84	eP	Pn	22 51 24.1
ACCO	Cerro Coronel	2.07	95	eP	Pn	22 50 51.0 +7.7
ACCO	Cerro Coronel	2.07	95	eS	Pn	22 51 20.9 +1.3
DOCA	Reserva Natura	2.11	105	eP	Pn	22 50 45.5 +1.6
DOCA	Reserva Natura	2.11	105	eS	Pn	22 51 13.8 +4.7
DOCA	Reserva Natura	2.11	105	eP	Pn	22 51 20.8
VA06	Catapilco	2.15	176	eP	Pn	22 50 43.5 -0.5
VA06	Catapilco	2.15	176	iP	Pn	22 50 44.7 +0.7
VA06	Catapilco	2.15	176	eS	Pn	22 51 10.4 +1.0
VA06	Catapilco	2.15	176	eP	Pn	22 51 28.1
AC04	Llanos de Chal	2.23	9	eP	Pn	22 50 46.5 +1.4
AC04	Llanos de Chal	2.23	9	eP	Pn	22 50 46.5 +1.4
AC04	Llanos de Chal	2.23	9	eS	Pn	22 51 13.7 +2.3
AC04	Llanos de Chal	2.23	9	eP	Pn	22 51 26.6
AC04	Llanos de Chal	2.23	9	eP	Pn	22 50 46.0 +0.9
AC04	Llanos de Chal	2.23	9	eP	Pn	22 51 22.5
RTLS	Leontico	2.31	127	eP	Pn	22 50 48.7 +2.2
RTLS	Leontico	2.31	127	eP	Pn	22 51 30.5
VA03	San Esteban	2.47	162	iP	Pn	22 50 48.9 +0.4
VA03	San Esteban	2.47	162	iP	Pn	22 50 49.3 +0.8
VA03	San Esteban	2.47	162	iS	Pn	22 51 17.6 +0.1
VA03	San Esteban	2.47	162	iP	Pn	22 51 24.1
VA03	San Esteban	2.47	162	eP	Pn	22 50 48.7 +0.2
VA03	San Esteban	2.47	162	eP	Pn	22 51 31.6
ROCH	El Roble	2.58	172	eP	Pn	22 50 58.0 +0.7
ROCH	El Roble	2.58	172	eS	Pn	22 51 21.4 +1.0
ROCH	El Roble	2.58	172	eP	Pn	22 51 33.9
VA01	Torpederas	2.61	184	eP	Pn	22 50 50.2 -0.1
VA01	Torpederas	2.61	184	eP	Pn	22 51 51.0 +0.7
VA01	Torpederas	2.61	184	eS	Pn	22 51 22.7 +1.5
VA01	Torpederas	2.61	184	eP	Pn	22 51 32.0
VA01	Torpederas	2.61	184	eP	Pn	22 50 50.9 +0.6
ZON	Zonda	2.64	116	eP	Pn	22 50 51.5 +0.7
ZON	Zonda	2.64	116	eP	Pn	22 51 14.0 +0.7
ZON	Zonda	2.64	116	eP	Pn	22 50 52.0 +1.2
ZON	Zonda	2.64	116	eP	Pn	22 51 47.0
RTLL	Cerro Villicun	2.72	110	eP	Pn	22 50 53.5 +1.6
RTLL	Cerro Villicun	2.72	110	eP	Pn	22 51 27.4 +3.3
AGUA	GUANDACOL	2.73	71	eP	Pn	22 50 55.7 +3.6
AGUA	GUANDACOL	2.73	71	eS	Pn	22 51 36.1 +1.2
PEL	Peidheue	2.80	167	eP	Pn	22 50 53.0 0.0
PEL	Peidheue	2.80	167	eP	Pn	22 50 53.0 0.0
PEL	Peidheue	2.80	167	eP	Pn	22 50 53.5 +0.4
PEL	Peidheue	2.80	167	eP	Pn	22 50 57.9 +0.1
PEL	Peidheue	2.80	167	eP	Pn	22 51 42.4
MT02	Curacav	2.85	175	eP	Pn	22 50 53.6 +0.7
MT02	Curacav	2.85	175	eS	Pn	22 50 54.0 +0.4
MT02	Curacav	2.85	175	eS	Pn	22 51 27.2 +0.4
MT02	Curacav	2.85	175	eP	Pn	22 51 43.6
MT02	Curacav	2.85	175	eP	Pn	22 50 54.2 +0.5
MT02	Curacav	2.85	175	eS	Pn	22 51 28.2 +1.5
MT02	Curacav	2.85	175	eP	Pn	22 51 38.0
MT10	Hacienda Santa	2.96	165	iP	Pn	22 50 56.1 +0.8
MT10	Hacienda Santa	2.96	165	eP	Pn	22 51 29.6 +0.1
CFA	Coronel Fontan	3.01	114	eP	Pn	22 50 56.5 +0.7
CFA	Coronel Fontan	3.01	114	eP	Pn	22 50 56.5 +0.7
CFA	Coronel Fontan	3.01	114	eP	Pn	22 51 33.3
CFA	Coronel Fontan	3.01	114	eP	Pn	22 52 17.4
CFA	Coronel Fontan	3.01	114	eP	Pn	22 50 57.5 +1.7
CFA	Coronel Fontan	3.01	114	eS	Pn	22 51 37.6 +6.9
GO03	Copiapo	3.01	21	eP	Pn	22 50 56.9 +1.0
GO03	Copiapo	3.01	21	eP	Pn	22 50 56.8 +1.0
MT05	Renca	3.03	169	eP	Pn	22 50 56.1 -0.1
MT05	Renca	3.03	169	eS	Pn	22 50 57.9 +1.6
MT05	Renca	3.03	169	eS	Pn	22 51 42.2 +1.1
MT05	Renca	3.03	169	eP	Pn	22 51 51.0
FCH	Farellones	3.07	161	eP	Pn	22 50 58.3 +1.4
FCH	Farellones	3.07	161	eS	Pn	22 51 43.1 +0.5
FCH	Farellones	3.07	161	eP	Pn	22 51 46.0
MT16	CCHEN	3.11	165	eP	Pn	22 50 58.0 +0.7

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
MT03	Universidad Ad	3.17	166	eP	Pn	22 50 58.9 +0.7
MT03	Universidad Ad	3.17	166	eP	Pn	22 51 00.1 +1.9
MT03	Universidad Ad	3.17	166	eS	Pn	22 51 40.7 +5.8
MT03	Universidad Ad	3.17	166	eS	Pn	22 51 47.3
MT04	Ro Olivares	3.19	160	eP	Pn	22 51 00.5 +2.0
MT04	Ro Olivares	3.19	160	eS	Pn	22 51 41.9 +6.6
MT04	Ro Olivares	3.19	160	eP	Pn	22 51 47.0
AC06	Mina Simiro	3.19	18	eP	Pn	22 50 59.5 +1.1
VA05	Santo Domingo	3.24	182	eP	Pn	22 50 58.0 +0.7
ARCO	CERRO ARCO	3.24	139	eP	Pn	22 51 02.2 +3.1
ARCO	CERRO ARCO	3.24	139	eS	Pn	22 51 48.4 +1.2
ARCO	CERRO ARCO	3.24	139	eS	Pn	22 51 50.6
MT08	Bocatoema Ro	3.26	158	eP	Pn	22 51 00.9 +1.3
MT08	Bocatoema Ro	3.26	158	eP	Pn	22 51 02.4 +2.8
MT08	Bocatoema Ro	3.26	158	eS	Pn	22 51 44.5 +7.4
MT08	Bocatoema Ro	3.26	158	eP	Pn	22 51 53.1
VCA	Vinchina	3.29	60	eP	Pn	22 51 03.7 +3.9
VCA	Vinchina	3.29	60	eS	Pn	22 51 50.6 +1.3
MT09	Tagata	3.38	173	eP	Pn	22 51 01.7 +0.7
MT01	Popeta	3.44	177	eP	Pn	22 51 02.5 +0.6
MT01	Popeta	3.44	177	eP	Pn	22 51 02.6 +0.7
MT01	Popeta	3.44	177	eS	Pn	22 51 53.6 +1.2
MT01	Popeta	3.44	177	eP	Pn	22 52 06.4
MT13	San Alfonso	3.47	164	eP	Pn	22 51 03.9 +1.7
MT13	San Alfonso	3.47	164	eP	Pn	22 51 04.5 +2.3
MT13	San Alfonso	3.47	164	eS	Pn	22 51 51.4 +9.3
MT13	San Alfonso	3.47	164	eP	Pn	22 51 56.6
BO04	La Punta	3.64	169	eP	Pn	22 51 05.3 +0.8
BO01	Tunca	3.98	176	eP	Pn	22 51 09.2 +0.1
BO01	Tunca	3.98	176	eP	Pn	22 51 10.0 +0.8
BO01	Tunca	3.98	176	eP	Pn	22 52 21.3
AC02	Maricunga	4.11	30	eP	Pn	22 51 11.1 -0.3
AC02	Maricunga	4.11	30	eP	Pn	22 51 13.1 +1.7
AC02	Maricunga	4.11	30	eS	Pn	22 52 05.5 +7.0
AC02	Maricunga	4.11	30	eP	Pn	22 52 14.6
AC01	Pan de Azucar	4.32	10	eP	Pn	22 51 13.5 -0.3
AC01	Pan de Azucar	4.32	10	eP	Pn	22 51 13.3 -0.5
AC01	Pan de Azucar	4.32	10	eS	Pn	22 52 20.5 +1.8
AC01	Pan de Azucar	4.32	10	eP	Pn	22 52 23.2
BO02	Sierra Bellavi	4.40	173	eP	Pn	22 51 15.2 +0.2
BO02	Sierra Bellavi	4.40	173	eP	Pn	22 51 16.1 +1.0
BO02	Sierra Bellavi	4.40	173	eS	Pn	22 52 18.6 +1.3
BO02	Sierra Bellavi	4.40	173	eP	Pn	22 52 20.4
RFA	San Rafael	5.02	151	eP	Pn	22 51 24.3 +0.7
ML02	Panimita	5.33	180	eP	Pn	22 51 27.6 -0.2
GO02	Mina Guanaco	5.49	18	eP	Pn	22 51 29.8 -0.4
PB14	IPC Station P	5.84	9	eP	Pn	22 51 33.1 -1.9
BI05	Punta Huapón	6.48	192	eP	Pn	22 51 22.2 -1.3
PB10	IPC Station P	6.92	7	eP	Pn	22 51 46.7 -2.8
H03N1	Juan Fernandez	7.02	243	T	T	22 58 54.5
H03N2	Juan Fernandez	7.04	243	T	T	22 58 48.1
H03N3	Juan Fernandez	7.04	243	Pn	Pn	22 51 51.0 +0.1
H03N3	Juan Fernandez	7.04	243	Pn		

BIRD	Birdtown, Kers	65.27	352	P	I	Amb	23 00 48.3 +1.1
BIRD	comp=Z,6.3nm,0.9s						23 00 50.2
X51A	Calhoun	65.86	348	P	I	Amb	23 00 51.7 +0.7
X51A	comp=Z,18nm,1.0s						23 00 54.4
KMSC	Kings Mountain	65.87	351	P	I	Amb	23 00 51.4 +0.3
KMSC	Hartselle	66.17	346	P	I	Amb	23 00 53.5 +0.4
X48A	Yeager Farm, C	66.18	344	P	I	Amb	23 00 53.9 +0.8
X48A	Washetta, Mont	66.23	337	P	I	Amb	23 00 54.1 +0.6
Y45A	comp=Z,19nm,0.8s						23 01 16.1
237A	Junction City	66.29	333	P	I	Amb	23 00 54.8 +0.8
JCT	Junction City	66.29	333	P	I	Amb	23 00 54.8 +0.8
JCT	comp=Z,11nm,0.8s						23 00 54.8 +0.8
JCT	Richland Creek	66.47	341	P	I	Amb	23 00 55.5 +0.5
Z41A	Taylorville	66.55	351	P	I	Amb	23 00 56.1 +0.6
V55A	Signal Mountain	66.56	348	P	I	Amb	23 00 56.0 +0.5
V55A	Saluda	66.60	350	P	I	Amb	23 00 56.0 +0.2
W50A	Cooper Cave	66.66	348	P	I	Amb	23 00 56.3 +0.1
W50A	comp=Z,27nm,1.4s						23 00 58.3
CPCT	Scott Base	66.68	191	P	I	Amb	23 00 57.2 +1.3
CPCT	comp=Z,30nm,1.3s						23 00 58.4
SBA	Scott Base	66.68	191	P	I	Amb	23 00 57.2 +1.3
SBA	comp=Z,8.5nm,1.2s						23 00 57.2 +1.3
SBA	comp=Z,9.0nm,1.3s						23 00 57.5 +1.7
SBA	comp=Z,9.0nm,1.3s						23 00 56.6 +0.2
SWET	SWET	66.69	347	P	I	Amb	23 00 59.2
BRDY	Brady	66.71	334	P	I	Amb	23 00 57.4 +0.8
BRDY	comp=Z,13nm,1.0s						23 01 18.3
SAND	Sanderson	66.76	331	P	I	Amb	23 00 58.0 +1.0
SAND	comp=Z,8.1nm,0.9s						23 01 19.3
OXF	Oxford	66.76	344	P	I	Amb	23 00 57.8 +1.0
OXF	comp=Z,18nm,0.8s						23 01 11.7
OXF	Oxford	66.76	344	P	I	Amb	23 00 57.8 +1.0
OXF	comp=Z,19nm,0.9s						23 01 18.8
WHTX	Lake Whitney	66.78	336	P	I	Amb	23 00 57.5 +0.5
WHTX	comp=Z,12nm,0.7s						23 01 18.8
TXAR	Lajitas Array	66.88	330	P	I	Amb	23 00 58.9 +1.0
TXAR	Lajitas Array	66.88	330	P	I	Amb	23 00 59.7 +1.8
TXAR	comp=Z,2.4nm,0.7s,baz=152,slow=8.3,SNR=29						23 26 13.3
TXAR	comp=Z,68nm,18.2s,baz=134,slow=32						
TXAR	comp=Z,2.4nm,0.7s						
TLX31	Lajitas Ar. Si	66.88	330	P	I	Amb	23 00 58.1 +0.3
PLAL	Pickwick Lake	66.91	345	P	I	Amb	23 00 58.0 +0.2
PLAL	comp=Z,11nm,1.1s						23 01 18.3
U56A	King	66.94	352	P	I	Amb	23 00 58.5 +0.6
U56A	comp=Z,9.9nm,0.7s						23 01 00.3
WLAR	White Oak Lake	66.96	340	P	I	Amb	23 00 58.6 +0.5
WLAR	comp=Z,11nm,0.9s						23 01 20.4
OZNA	Ozona	67.20	333	P	I	Amb	23 00 59.5 -0.3
OZNA	comp=Z,6.6nm,0.8s						23 01 21.7
U59A	Double "B" Far	67.28	355	P	I	Amb	23 01 00.8 +0.8
U54A	Nelsons Runny	67.29	351	P	I	Amb	23 00 59.2 -1.0
U54A	comp=Z,18nm,1.1s						23 01 02.1
V48A	Smith Brothers	67.37	346	P	I	Amb	23 01 01.4 +0.7
CLTN	Cedars of Leba	67.61	347	P	I	Amb	23 01 02.3 +0.1
CLTN	comp=Z,16nm,1.4s						23 01 04.9
VNDA	Vanda	67.71	191	P	I	Amb	23 01 03.8 +1.4
VNDA	comp=Z,1.8nm,0.9s,baz=124,slow=5.2,SNR=7.8						23 01 03.7 +1.4
VNDA	comp=Z,1.8nm,0.9s						23 01 03.8 +1.4
VNDA	comp=Z,3.0nm,1.0s						23 01 03.8 +1.4
VNDA	comp=Z,3.0nm,1.0s						23 01 03.9 +1.4
BLA	Blacksburg	67.79	352	P	I	Amb	23 01 04.4 +1.0
BLA	comp=Z,23nm,1.4s						23 01 33.0
BLA	Blacksburg	67.79	352	P	I	Amb	23 01 04.4 +1.0
BLA	comp=Z,23nm,1.5s						23 01 04.1 +0.4
PLPT	Palo Pinto	67.83	336	P	I	Amb	23 01 04.1 +0.4
PLPT	comp=Z,9.6nm,0.7s						23 01 25.3
U49A	Red Boiling Sp	67.92	348	P	I	Amb	23 01 04.8 +0.7
U49A	comp=Z,23nm,1.4s						23 01 05.3
Z35A	Perrhaven, San	67.93	337	P	I	Amb	23 01 05.1 +0.8
FW03	Perrin-Whitt E	67.95	336	P	I	Amb	23 01 05.0 +0.6
FW03	comp=Z,10nm,0.8s						23 01 20.4
WV13	Waverly	67.96	346	P	I	Amb	23 01 03.6 -0.8
WV13	comp=Z,13nm,0.8s						23 01 21.7
WV13	Waverly	67.96	346	P	I	Amb	23 01 03.6 -0.8
WV13	comp=Z,13nm,0.8s						23 01 05.1 +0.7
WV13	comp=Z,13nm,0.8s						23 01 19.8 +1.6
WV13	Abilene, Hawke	68.14	335	P	I	Amb	23 01 06.4 +0.7
ABTX	ABTX	68.14	335	P	I	Amb	23 01 06.4 +0.7
ABTX	comp=Z,9.0nm,0.7s						23 01 21.7
S57A	Dark Hollow, R	68.18	354	P	I	Amb	23 01 06.2 +0.5
MNHN	Monahans	68.23	331	P	I	Amb	23 01 06.9 +0.6
MNHN	comp=Z,9.3nm,0.8s						23 01 23.1
TS0A	Nancy	68.24	348	P	I	Amb	23 01 06.5 +0.4
TS0A	comp=Z,19nm,1.5s						23 01 07.9
R58B	Mineral	68.29	355	P	I	Amb	23 01 06.8 +0.4
R58B	comp=Z,22nm,1.2s						23 01 09.3
T47A	Sharon Grove	68.64	347	P	I	Amb	23 01 08.9 +0.3
LCAR	Lake Charles	68.67	343	P	I	Amb	23 01 09.3 +0.4
LCAR	comp=Z,11nm,0.7s						23 01 27.0
VHRN	Van Horn	68.70	329	P	I	Amb	23 01 10.3 +1.0
WTF5	Witchita Falls	68.75	336	P	I	Amb	23 01 09.6 +0.2
WTF5	comp=Z,12nm,0.8s						23 01 25.1
FCAR	Ozark Folk Cen	68.76	342	P	I	Amb	23 01 10.3 +1.0
ODSA	Odessa	68.83	332	P	I	Amb	23 01 10.4 +0.4
APMT	Aspermont	68.95	335	P	I	Amb	23 01 11.0 +0.3
APMT	comp=Z,10nm,0.7s						23 01 26.7
SYO	Syowa Base	69.02	159f	aP	P	P	23 01 08.5 -2.2
SYO	Syowa Base	69.02	159f	ePcP	P	P	23 01 08.5 -1.9
BBTS	Babate	69.28	58	LR	LR	LR	23 32 54.3
HHAR	Hobbs	69.62	341	P	I	Amb	23 01 15.1 +0.3
HHAR	comp=Z,11nm,0.9s						23 01 30.9
MNTX	Cornudas Mount	69.66	330	P	I	Amb	23 01 15.7 +0.6
TUL3	Leonard	69.83	339	P	I	Amb	23 01 15.8 -0.2
TUL3	comp=Z,12nm,0.7s						23 01 31.6
RLO	Rose Lookout	69.83	340	P	I	Amb	23 01 16.3 +0.2
RLO	comp=Z,13nm,1.0s						23 01 30.9
U38A	Gravette	69.90	340	P	I	Amb	23 01 17.4 +0.9
U38A	comp=Z,12nm,1.4s						23 01 33.4
WUPA	West Chester U	70.09	357	P	I	Amb	23 01 19.2 +1.7
CCM	Cathedral Cave	70.58	344	P	I	Amb	23 01 21.0 +0.4
CCM	comp=Z,9.8nm,0.8s						23 01 37.6

CCM	Cathedral Cave	70.58	344	P	I	Amb	23 01 21.0 +0.4
CCM	comp=Z,10.0nm,0.8s						23 01 37.6
CCM	Cathedral Cave	70.58	344	P	I	Amb	23 01 21.4 +0.9
CCM	comp=Z,10.0nm,0.8s						23 01 35.7 +1.3
SMWD	Samnorwood	70.59	335	P	I	Amb	23 01 41.5 +0.1
SMWD	comp=Z,15nm,0.7s						23 01 36.5
OK051	E0350 and S346	70.70	339	P	I	Amb	23 01 22.1 +0.8
OK051	comp=Z,22nm,0.9s						23 01 47.3
SSPA	Standing Stone	70.94	355	P	I	Amb	23 01 24.1 +1.4
SSPA	comp=Z,22nm,0.9s						23 01 43.2 +0.3
ACSO	Alum Creek Sta	71.10	351	P	I	Amb	23 01 23.3 +0.2
ACSO	comp=Z,24nm,1.0s						23 01 25.4
O49A	Covington	71.25	350	P	I	Amb	23 01 24.9 +0.3
O49A	comp=Z,21nm,1.2s						23 01 26.7
OK038	West end E0370	71.30	337	P	I	Amb	23 01 26.1 +1.1
N49A	Columbus Grove	71.35	350	P	I	Amb	23 01 28.9 +0.1
DUN6	Lazy B Ranch	72.06	327	P	I	Amb	23 01 29.5 -0.3
DUN6	comp=Z,21nm,1.0s						23 01 32.9
P40A	Paris	72.18	343	P	I	Amb	23 01 30.8 +0.6
L56A	Greenwood	72.41	355	P	I	Amb	23 01 32.6 +1.0
P38A	Dawn	72.64	342	P	I	Amb	23 01 33.5 +0.5
P38A	comp=Z,8.7nm,1.0s						23 01 34.2
ANMO	Albuquerque	72.90	330	P	I	Amb	23 01 35.4 +0.5
ANMO	Albuquerque	72.90	330	P	I	Amb	23 01 36.1 +1.3
ANMO	comp=Z,7.1nm,1.4s						23 01 38.6
ANMO	Albuquerque	72.90	330	P	I	Amb	23 01 37.1 +2.2
ANMO	comp=Z,7.0nm,1.4s						23 01 38.6
ANMO	Albuquerque	72.90	330	P	I	Amb	23 01 36.3 +1.5
ANMO	comp=Z,3.0nm,1.5s						23 01 35.7 +0.6
MMNV	Mt. Morris Dam	73.03	355	P	I	Amb	23 01 35.7 +0.6
214A	Organ Pipe Nat	73.39	324	P	I	Amb	23 01 38.7 +1.1
K50A	Casco	73.55	351	P	I	Amb	23 01 37.8 -0.4
J55A	Hilton	73.55	355	P	I	Amb	23 01 38.8 +0.6
DBIC	Dimbokro	73.58	72	P	I	Amb	23 01 37.2 -0.6
DBIC	Dimbokro	73.58	72	P	I	Amb	23 01 38.3 -0.8
DBIC	comp=Z,26nm,0.8s,baz=230,slow=6.4,SNR=18						23 31 55.8
DBIC	comp=Z,26nm,0.8s						23 31 55.8
DBIC	Dimbokro	73.58	72	P	I	Amb	23 01 38.5 -0.6
DBIC	comp=Z,55nm,1.2s						23 01 53.9
J57A	Williamstown	73.58	357	P	I	Amb	23 01 38.8 +0.5
J57A	comp=Z,17nm,1.0s						23 01 42.6 +1.6
T25A	Trinidad	73.95	333	P	I	Amb	23 02 03.7
T25A	comp=Z,11nm,0.8s						23 01 43.6 +0.5
L40A	Anamosa	74.39	345	P	I	Amb	23 01 45.0
L40A	comp=Z,38nm,1.3s						23 01 45.5 +1.4
W18A	Petrified Fore	74.49	328	P	I	Amb	23 02 02.4
W18A	comp=Z,9.6nm,1.1s						23 01 46.3 +0.9
X16A	Lo Ma Camp, P	74.70	327	P	I	Amb	23 01 47.7 +1.0
SDCO	Great Sand Dun	74.91	333	P	I	Amb	23 01 47.2 +1.1
FRNY	Flat Rock	74.91	358	P	I	Amb	23 01 48.6
FRNY	comp=Z,37nm,1.2s						23 01 48.2
JFWS	Jewell Farm	74.98	346	P	I	Amb	23 01 46.8 +0.2
JFWS	comp=Z,13nm,1.1s						23 01 48.7
JFWS	Jewell Farm	74.98	346	P	I	Amb	23 01 46.8 +0.2
JFWS	comp=Z,13nm,1.1s						23 01 46.8 +0.2
HAL	Halifax	75.03	6	P	I	Amb	23 01 47.9 +1.1
HAL	Halifax	75.03	6	P	I	Amb	23 01 47.9 +1.1
HAL	comp=Z,44nm,1.3s						23 01 48.2 +0.8
Y14A	Wickenburg	75.08	325	P	I	Amb	23 01 47.8 +0.5
WBO	Williamsburg	75.13	357	P	I	Amb	23 01 47.7 +0.2
SADO	Sadowa	75.15	354	P	I	Amb	23 01 48.9
SADO	comp=Z,13nm,0.9s						23 01 49.2 +1.0
G62A	West of Eustis	75.2					



Table with columns: Station Name, Frequency, Power, Class, and Time. Includes stations like KWHZ, NTVZ, TMVZ, KRUV, etc.

Table with columns: Station Name, Frequency, Power, Class, and Time. Includes stations like TAOE, AS31, ASAR, ASAR, etc.

Table with columns: Station Name, Frequency, Power, Class, and Time. Includes stations like MG01, MG01, SYLO, SYLO, etc.

BBGB	Big Mountain B	86.61	43	P	P	23 23 04.3 +0.7
BBGB	comp=Z,21nm,0.9s			I	Amb	23 23 07.4
ESJX	Sierra Juarez	86.66	49	P	P	23 23 04.6 +0.5
ESJX	comp=Z,28nm,1.7s			I	Amb	23 25 22.9
MCCM	Marconi Confer	86.67	41	P	P	23 23 04.7 +1.0
PET	Petrovavlovsk	86.67	346	P	P	23 23 04.1 +0.8
PET	comp=Z,12nm,0.6s			I	Amb	23 23 06.8
PET	Petrovavlovsk	86.67	346	eP	S	23 23 04.6 +1.3
PET	comp=Z,19nm,0.7s			eS	S	23 33 42.6 +5.7
PET	comp=Z,100nm,22.6s			pmax	pmax	
PET	Petrovavlovsk	86.67	346	P	P	23 23 03.2 -0.1
NJ2	Nanjing	86.75	311	eP	pmax	23 23 04.4 +0.1
NJ2	comp=Z,23nm,0.9s			pmax	pmax	
ELS	Elsinore Mount	86.80	47	P	P	23 23 06.3 +1.7
ELS	comp=Z,25nm,1.2s			I	Amb	23 23 07.1
PEAOB	Petrovavlovsk	86.94	346	P	P	23 23 04.6 -0.1
PEAOB	comp=Z,23nm,0.8s			I	Amb	23 23 08.6
PEAOB	Petrovavlovsk	86.94	346	eP	P	23 23 05.7 +1.0
PETK	Petrovavlovsk	86.94	346	P	P	23 23 04.1 -0.6
PETK	comp=Z,15nm,0.7s,baz=145,slow=5.4,SNR=21			LR	LR	23 56 06.5
CO02	Combarbal	87.15	125	P	P	23 23 06.8 +0.1
CO02	comp=Z,240nm,21.5s,baz=164,slow=32			I	Amb	23 23 09.4
MSHR	Mys Shultsa	87.16	325	eP	pmax	23 23 06.1 +0.1
MSHR	comp=Z,26nm,0.9s			pmax	pmax	
GDXM	Geyzers	87.18	40	P	P	23 23 08.4 +2.1
GDXM	comp=Z,43nm,1.1s			I	Amb	23 23 23.1
KCPM	Cahto Peak	87.38	39	P	P	23 23 07.5 +0.1
KCPM	comp=Z,31nm,1.1s			I	Amb	23 23 11.7
PSTR	Posyet	87.38	325	eP	P	23 23 07.1 0.0
PFO	Pinyon Flats O	87.39	48	P	P	23 23 08.9 +1.4
PFO	comp=Z,14nm,1.1s			I	Amb	23 23 10.2
PFO	Pinyon Flats O	87.39	48	P	P	23 23 07.6 +0.1
PFO	comp=Z,185nm,18.3s,baz=226,slow=32			LR	LR	23 57 07.2
PFO	comp=Z,7.1nm,0.8s			LR	LR	
PFO	Pinyon Flats O	87.39	48	eP	pmax	23 23 09.3 +1.8
PFO	comp=Z,15nm,1.0s			pmax	pmax	
CCAC	Calif City Air	87.44	46	P	P	23 23 07.4 -0.3
CCAC	comp=Z,25nm,1.2s			I	Amb	23 23 10.9
ISA	Isabella, Lake	87.50	45	P	P	23 23 09.1 +1.1
ISA	comp=Z,31nm,1.0s			I	Amb	23 23 09.1 +1.1
ISA	Isabella, Lake	87.50	45	pmax	pmax	
CO03	El Pedregal	87.58	125	P	P	23 23 09.5 +0.8
KMPM	Mount Pierce	87.62	38	P	P	23 23 09.6 +1.3
CHNA	Chernabura Isl	87.68	11	P	P	23 23 09.1 +1.0
CHNA	baz=195					
KMRM	Mali Ridge	87.69	39	P	P	23 23 08.3 -0.5
KMRM	comp=Z,16nm,0.8s			I	Amb	23 23 11.9
USA0B	Ussuriysk Arra	87.99	327	P	P	23 23 09.3 -0.6
USA0B	comp=Z,36nm,1.5s			I	Amb	23 23 12.8
USA0B	Ussuriysk Arra	87.99	327	eP	P	23 23 09.4 -0.5
USRK	Ussuriysk Ar.	87.99	327	P	P	23 23 09.1 -0.9
USRK	Ussuriysk Ar.	87.99	327	P	P	23 23 09.7 -0.2
USRK	comp=Z,8.7nm,0.9s,baz=159,slow=5.2,SNR=12			LR	LR	23 57 29.9
CMB	Columbia Colle	88.00	42	P	P	23 23 11.2 +1.0
CMB	comp=Z,147nm,20.9s,baz=138,slow=32			I	Amb	23 23 12.8
CMB	comp=Z,8.7nm,0.9s			I	Amb	23 23 12.8
CMB	Columbia Colle	88.00	42	P	P	23 23 11.2 +1.0
CMB	comp=Z,16nm,0.8s			I	Amb	23 23 12.8
SDPT	Sand Point	88.05	10	P	P	23 23 10.5 +0.6
GLA	Glamis	88.06	49	P	P	23 23 11.8 +1.2
GLA	comp=Z,28nm,1.1s			I	Amb	23 23 14.1
GLA	Glamis	88.06	49	P	P	23 23 11.8 +1.2
GLA	comp=Z,28nm,1.1s			pmax	pmax	
KHMM	Horse Mountain	88.15	38	P	P	23 23 12.4 +1.3
KHMM	comp=Z,12nm,0.8s			I	Amb	23 23 14.1
S12K	Black Hills	88.16	9	P	P	23 23 11.0 +0.5
S12K	comp=Z,12nm,0.8s			I	Amb	23 23 15.9
GSC	Goldstone, Bar	88.28	46	P	P	23 23 13.1 +1.4
GSC	comp=Z,22nm,1.0s			I	Amb	23 23 14.9
GSC	Goldstone, Bar	88.28	46	P	P	23 23 13.1 +1.4
GSC	comp=Z,22nm,1.0s			pmax	pmax	
ORV	Oroville	88.42	40	P	P	23 23 13.6 +1.4
ORV	comp=Z,22nm,1.0s			I	Amb	23 23 16.5
ORV	Oroville	88.42	40	P	P	23 23 13.6 +1.4
ORV	comp=Z,22nm,1.0s			pmax	pmax	
KRMB	Red Mountain	88.52	38	P	P	23 23 14.8 +2.1
ZON	Zonda	88.56	127	P	P	23 23 13.8 +0.5
ZON	comp=Z,20nm,1.3s			I	Amb	23 23 16.5
ZON	Zonda	88.56	127	P	P	23 23 13.8 +0.5
ZON	comp=Z,20nm,1.3s			pmax	pmax	
113A	Mohawk Valley	88.56	50	P	P	23 23 13.4 +0.4
113A	comp=Z,20nm,1.3s			I	Amb	23 23 15.9
LCO	Las Campanas	88.63	123	P	P	23 23 15.0 +1.0
LCO	comp=Z,12nm,1.1s			I	Amb	23 23 17.5
LCO	Las Campanas	88.63	123	P	P	23 23 15.0 +1.0
LCO	comp=Z,75nm,1.9s			pmax	pmax	
214A	Organ Pipe Nat	88.68	51	P	P	23 23 15.9 +2.3
214A	comp=Z,22nm,1.0s			I	Amb	23 23 17.5
QSM	Queen of Sheba	88.68	46	P	P	23 23 14.9 +1.5
QSM	comp=Z,46nm,1.9s			I	Amb	23 23 16.5
BLVC	Blythe	88.70	48	P	P	23 23 15.7 +2.1
BLVC	comp=Z,19nm,1.1s			I	Amb	23 23 16.6
KSXB	Camp Six Broad	88.76	38	P	P	23 23 14.0 +0.2
KSXB	comp=Z,14nm,1.0s			I	Amb	23 23 20.9
WHN	Wuhan	88.77	307	P	P	23 23 14.3 +0.3
SPIA	Saint Paul Is	88.78	4	P	P	23 23 13.5 +0.1
SPIA	baz=187					
AC04	Llanos de Chal	88.84	123	P	P	23 23 13.8 -0.8
WAKR	Walker	88.86	42	P	P	23 23 16.2 +1.7
WAKR	comp=Z,20nm,1.1s			I	Amb	23 23 17.6
GWY	Greenwater Val	88.95	46	P	P	23 23 16.0 +1.1
GWY	comp=Z,14nm,1.1s			I	Amb	23 23 17.2
DSP	Deep Springs	88.95	44	P	P	23 23 15.4 +0.7
TYV	Typmovoeks	89.05	337	eP	S	23 23 15.1 +0.3
TYV	comp=Z,14nm,1.1s			eS	S	23 34 02.6 +2.8
TYV	comp=Z,14nm,1.1s			pmax	pmax	
TYV	comp=Z,100nm,3.8s			pmax	pmax	
TYV	comp=N,100nm,5.4s			smax	smax	
TYV	comp=N,100nm,5.4s			smax	smax	
GRAC	Grapevine Rang	89.06	45	P	P	23 23 16.8 +1.5
GRAC	comp=Z,21nm,0.9s			I	Amb	23 23 18.6
S14K	Fog Glacier	89.09	10	P	P	23 23 15.3 +0.3
S14K	baz=196					
L02F	Cave Junction	89.13	38	P	P	23 23 14.7 -0.7
L02F	comp=Z,230nm,18.6s			I	Amb	23 23 32.8

PNTN	Pine Nut	89.17	42	P	P	23 23 15.8 -0.1
PNTN	comp=Z,32nm,1.6s			I	Amb	23 23 18.7
LHV	Little Huntoon	89.23	43	P	P	23 23 17.4 +1.5
LHV	comp=Z,24nm,0.9s			I	Amb	23 23 19.1
KEBM	Edson Butte	89.27	37	P	P	23 23 16.1 0.0
YBH	Yreka Blue Hor	89.30	38	P	P	23 23 16.3 0.0
YBH	comp=Z,0.3nm,0.7s,baz=205,slow=3.1,SNR=11					
CHIR	Chirikof Islan	89.32	13	P	P	23 23 16.5 +0.6
CHIR	baz=199					
HATC	Hat Creek Radi	89.32	40	P	P	23 23 17.1 +0.7
HATC	comp=Z,28nm,1.1s			I	Amb	23 23 19.3
MDJ	Mudanjiang	89.43	326	P	P	23 23 16.6 -0.1
MDJ	comp=Z,9.0nm,1.0s			pmax	pmax	
NVAR	Min Array Bea	89.47	43	P	P	23 23 18.2 +0.8
NVAR	Min Array Bea	89.47	43	P	P	23 23 18.5 +1.2
NVAR	comp=Z,12nm,0.8s,baz=222,slow=8.2,SNR=54			PKKP	PKKP	23 40 55.4 +2.3
NVAR	comp=Z,0.7nm,0.6s,baz=81,slow=5.3,SNR=3.9			LR	LR	23 58 51.7
NVAR	comp=Z,241nm,18.4s,baz=228,slow=32			LR	LR	
NVAR	comp=Z,12nm,0.8s			LR	LR	
NV11	Min Array Sit	89.55	43	I	Amb	23 23 20.4
TPNV	Topopah Spring	89.70	45	P	P	23 23 18.4 -0.1
TPNV	comp=Z,10nm,0.9s			I	Amb	23 23 21.6
TPNV	Topopah Spring	89.70	45	P	P	23 23 18.4 -0.1
TPNV	comp=Z,10nm,0.9s			pmax	pmax	
PAHR	Pah Rah Range	89.71	41	P	P	23 23 19.2 +0.8
V12A	Nelson	89.76	47	P	P	23 23 20.7 +2.0
Y14A	Wickenburg	89.80	49	P	P	23 23 20.1 +1.2
Y14A	comp=Z,16nm,0.9s			I	Amb	23 23 22.2
L04D	Klamath Falls	89.86	38	P	P	23 23 19.8 +0.8
L04D	comp=Z,35nm,1.2s			I	Amb	23 23 35.7
TPH	Topopah	89.86	44	P	P	23 23 20.1 +0.9
TPH	comp=Z,93nm,0.9s			pmax	pmax	
TPH	Topopah	89.86	44	P	P	23 23 20.1 +0.9
TPH	comp=Z,93nm,0.9s			pmax	pmax	
W13A	Hualapai Spring	89.97	48	P	P	23 23 21.2 +1.4
W13A	comp=Z,14nm,0.9s			I	Amb	23 23 23.2
SHPR	Sheep Range	90.08	46	P	P	23 23 21.2 +1.0
TUC	Tucson	90.24	52	P	P	23 23 22.8 +1.8
TUC	comp=Z,13nm,1.0s			I	Amb	23 23 24.3
TUC	Tucson	90.24	52	P	P	23 23 22.8 +1.8
TUC	comp=Z,13nm,1.0s			pmax	pmax	
SII	Sitkinak Islan	90.29	13	P	P	23 23 21.5 +1.1
SII	comp=Z,29nm,1.0s			I	Amb	23 23 25.0
I03D	Drain, OR	90.37	37	P	P	23 23 21.0
I03D	comp=Z,19nm,0.8s			I	Amb	23 23 24.2
K04D	Chiloquin, OR	90.43	38	P	P	23 23 22.5 +0.9
S11A	Rachel	90.46	45	P	P	23 23 23.2 +1.3
S11A	comp=Z,13nm,0.9s			I	Amb	23 23 24.9
TIA	Taian	90.53	313	P	P	23 23 22.8 +0.7
TIA	comp=Z,29nm,1.0s			pmax	pmax	
J04A	Umpqua Nationa	90.68	37	P	P	23 23 23.9 +1.0
319A	Douglas	90.69	53	P	P	23 23 24.4 +1.2
319A	comp=Z,11nm,1.1s			I	Amb	23 23 26.1
PRN	Pahroc Range	90.72	45	P	P	23 23 25.2 +2.0
PRN	comp=Z,19nm,1.0s			I	Amb	23 23 26.8
TLIG	Tiapa	90.84	70	P	P	23 23 24.7 +0.6
TLIG	comp=Z,20nm,1.1s			I	Amb	23 23 41.8
CN2	Changchun	90.90	323	P	P	23 23 23.0 -0.6
CN2	comp=Z,20nm,1.1s			pmax	pmax	
CN2	comp=Z,20nm,1.1s			LR	LR	
CN2	comp=Z,400nm,23.0s			LR	LR	
CN2	comp=Z,400nm,23.0s			LR	LR	
CN2	comp=Z,300nm,23.0s			LR	LR	
BUC	Buck Mountain	90.91	36	P	P	23 23 23.3 -0.5
I04A	Tendick Farm,	90.97	37	P	P	23 23 24.8 +1.0
R11B	Troy Canyon, C	91.01	44	P	P	23 23 25.3 +0.8
AC02	Maricunga	91.03	123	P	P	23 23 25.9 +0.4
SLVN	Son La	91.04	294	P	P	23 23 24.9 -0.1
OHAK	Old Harbor	91.08	13	P	P	23 23 23.9 -0.2
OHAK	comp=Z,22nm,1.0s			I	Amb	23 23 25.9
OHAK	Old Harbor	91.08	13	P	P	23 23 24.9 +0.8
X16A	Lo Mia Camp, P	91.11	50	P	P	23 23 26.4 +1.3
X16A	comp=Z,15nm,0.9s			I	Amb	23 23 28.8
J05D	Fort Rock, OR	91.17	38	P	P	23 23 26.0 +0.9
J05D	comp=Z,14nm,0.8s			I	Amb	23 23 27.9
R18K	Kariuk	91.18	13	P	P	23 23 25

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like L19K White Mountain, SUA Susitna One, U33K Whale Pass, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like DHY Denali Highway, RND Reindeer, YHL Helton Lake, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like B21K Ikipkuk River, G29M Pine Creek, C23K Hkiliik River, etc.



Table with columns: Station Name, Frequency, Mode, and other technical details. Includes stations like JETT, KLMM, STEI, LOF, VAGH, etc.

Table with columns: Station Name, Frequency, Mode, and other technical details. Includes stations like CLL, Colim, CLL, CLL, etc.

Table with columns: Code, Station Name, Frequency, Mode, and other technical details. Includes stations like NEIC, HVO, STCH, JCUZ, etc.



ITAB	Concordia	17.75	86	eP	Pn	00 23 16.2	-2.3
CNLB	Canela	18.48	93	P	P	00 23 24.8	-2.6
CNLB	Canela	18.48	93	S	Pn	00 26 51.6	-2.5
CNLB	Canela	18.48	93	eP	Pn	00 23 25.4	-2.0
CNLB	Canela	18.48	345	P	Sn	00 26 52.3	-1.8
NNA	Nana	18.53	345	P	P	00 23 29.8	+1.0
NNA	Nana	18.53	345	P	Pn	00 23 29.8	+1.7
NNA	Nana	18.53	345	eP	P	00 28 24.8	
NNA	Nana	18.53	345	eP	P	00 23 26.9	-1.1
NNA	Nana	18.53	345	P	Pn	00 23 29.4	+1.3
NNA	Nana	18.53	345	P	Pn	00 23 25.4	-2.6
PTGB	Pitanga	18.57	78	P	P	00 23 26.8	-1.6
PTGB	Pitanga	18.57	78	eS	Pn	00 26 56.9	+0.6
PTGB	Pitanga	18.57	78	eS	Pn	00 23 27.0	-0.8
PTLB	Pontes e Lacer	18.81	42	P	P	00 23 28.5	-2.5
PTLB	Pontes e Lacer	18.81	42	P	P	00 23 27.3	-3.7
PTLB	Pontes e Lacer	18.81	42	P	Pn	00 27 01.9	-0.2
PTLB	Pontes e Lacer	18.81	42	eP	Pn	00 23 30.1	-0.9
TRCB	Terra Rica	18.87	72	P	Iamb	00 23 29.5	-2.2
TRCB	Terra Rica	18.87	72	P	P	00 23 39.2	
TRCB	Terra Rica	18.87	72	P	Pn	00 23 29.6	-2.0
TRCB	Terra Rica	18.87	72	S	P	00 27 03.0	-0.5
TRCB	Terra Rica	18.87	72	S	P	00 23 31.9	-1.5
RPDR	Ribas do Rio P	19.16	64	eP	Pn	00 23 35.5	-0.3
LDASE	Londrina, Braz	19.87	75	eP	P	00 23 42.0	-0.7
LDASE	Londrina, Braz	19.87	75	eS	P	00 27 23.1	-3.5
VILB	Vilhena	20.29	35	P	Iamb	00 23 45.6	-1.7
VILB	Vilhena	20.29	35	P	Iamb	00 23 58.8	
VILB	Vilhena	20.29	35	P	IAMS_20	00 31 52.1	
VILB	Vilhena	20.29	35	P	P	00 23 46.3	-1.0
VILB	Vilhena	20.29	35	eS	P	00 27 33.1	-1.5
VILB	Vilhena	20.29	35	eS	P	00 27 33.9	-1.0
MAJ01	Sao Joao Batis	20.42	88	P	P	00 23 46.8	-1.8
MAJ01	Sao Joao Batis	20.42	88	eS	Pn	00 27 39.8	-1.0
MAJ01	Sao Joao Batis	20.42	88	eP	P	00 23 47.9	-0.7
PCMB	Pacaembu	20.54	71	P	P	00 23 49.1	-1.0
PCMB	Pacaembu	20.54	71	eS	P	00 27 36.7	-3.2
PCMB	Pacaembu	20.54	71	eS	P	00 23 49.5	-0.4
PCMB	Pacaembu	20.54	71	eS	P	00 27 37.6	-2.2
SALV	Santo Antonio	20.63	50	P	P	00 23 50.3	-0.6
SALV	Santo Antonio	20.63	50	eP	P	00 27 39.7	-1.9
SALV	Santo Antonio	20.63	50	eS	P	00 23 50.4	-0.6
C25B	Chapadao do Su	20.81	62	P	P	00 23 40.6	-1.0
C25B	Chapadao do Su	20.81	62	eS	P	00 23 52.9	+0.1
C25B	Chapadao do Su	20.81	62	eS	P	00 27 42.4	-2.7
C25B	Chapadao do Su	20.81	62	eS	P	00 23 52.9	+0.1
TU01	Guaruva-PR	20.98	83	P	P	00 27 43.9	-1.2
TU01	Guaruva-PR	20.98	83	S	P	00 21 13.4	-2.5
TU01	Guaruva-PR	20.98	83	S	P	00 27 45.2	-3.4
GO09	Cerro Castillo	21.18	180	P	Iamb	00 23 56.4	-0.1
GO09	Cerro Castillo	21.18	180	P	Iamb	00 24 11.5	
GO09	Cerro Castillo	21.18	180	P	IAMS_20	00 33 02.7	
FRTB	Fartura	21.20	77	P	P	00 23 55.9	-1.2
FRTB	Fartura	21.20	77	eS	P	00 27 52.5	-0.5
FRTB	Fartura	21.20	77	eS	P	00 23 56.2	-0.9
FRTB	Fartura	21.20	77	eS	P	00 27 40.6	-2.4
LABB	Ljbre	21.51	18	P	P	00 24 00.0	0.0
LABB	Ljbre	21.51	18	S	P	00 27 55.6	-3.4
MG05	Puerto Natales	21.59	181	P	Iamb	00 24 00.6	-0.3
MG05	Puerto Natales	21.59	181	P	Iamb	00 24 15.5	
MG05	Puerto Natales	21.59	181	P	IAMS_20	00 32 49.6	
ITRB	Iturama	22.23	67	P	P	00 24 06.7	-1.4
ITRB	Iturama	22.23	67	eP	P	00 28 07.0	-6.0
ITRB	Iturama	22.23	67	eP	P	00 28 06.3	-1.8
CZ5B	Cruzeiro do Su	22.24	358	P	P	00 24 07.9	-0.3
CZ5B	Cruzeiro do Su	22.24	358	P	P	00 24 09.4	+1.2
CZ5B	Cruzeiro do Su	22.24	358	P	P	00 28 13.6	+0.6
CZ5B	Cruzeiro do Su	22.24	358	P	P	00 24 09.0	+0.8
CZ5B	Cruzeiro do Su	22.24	358	P	P	00 24 09.0	+0.8
MG04	Isla Riesco	22.77	179	P	P	00 24 13.2	-0.3
MG02	Cerro Sombrero	22.79	175	P	P	00 24 13.4	-0.3
MG02	Cerro Sombrero	22.79	175	P	P	00 24 14.9	+1.2
PET01	Ithahaem-SP	22.80	81	P	P	00 24 12.5	-1.7
PET01	Ithahaem-SP	22.80	81	P	P	00 24 19.0	+0.0
PET01	Ithahaem-SP	22.80	81	eS	P	00 24 12.3	-1.9
PET01	Ithahaem-SP	22.80	81	eS	P	00 28 22.5	-1.0
SPB	Sao Paulo	22.92	80	P	Iamb	00 24 13.8	-1.6
SPB	Sao Paulo	22.92	80	P	Iamb	00 24 30.6	
SPB	Sao Paulo	22.92	80	P	IAMS_20	00 33 14.4	
SPB	Sao Paulo	22.92	80	eP	P	00 24 14.3	-1.0
PRDR	Porto dos Gac	23.27	41	P	P	00 24 17.9	-1.2
PRDR	Porto dos Gac	23.27	41	eP	P	00 28 29.1	-2.5
PRDR	Porto dos Gac	23.27	41	eP	P	00 24 17.9	-1.2
ARAG	Araguaiana, MT	23.48	57	P	P	00 24 19.2	-2.0
ARAG	Araguaiana, MT	23.48	57	eP	P	00 28 33.2	-1.8
ARAG	Araguaiana, MT	23.48	57	eP	P	00 24 19.4	-1.7
VABV	Valinhos	23.53	79	P	P	00 24 20.3	-1.5
VABV	Valinhos	23.53	79	P	P	00 24 14.4	-1.4
VAO	Valinhos	23.54	79	P	IAMS_20	00 24 19.2	-2.5
VAO	Valinhos	23.54	79	P	IAMS_20	00 35 11.7	
VAO	Valinhos	23.54	79	eP	P	00 24 20.3	-1.5
ATAH	Ataualpa	23.57	344	P	P	00 24 24.4	+1.8
ATAH	Ataualpa	23.57	344	P	P	00 24 24.4	+1.8
MG03	Isla Dawson	23.79	178	P	P	00 24 23.1	-0.7
MG03	Isla Dawson	23.79	178	P	Iamb	00 24 36.0	
EFI	East Falkland	23.97	158	P	Iamb	00 24 24.4	-1.1
EFI	East Falkland	23.97	158	P	Iamb	00 24 37.3	
EFI	East Falkland	23.97	158	eP	P	00 24 24.8	-0.7
EFI	East Falkland	23.97	158	eP	P	00 24 33.0	-0.7
EFI	East Falkland	23.97	158	eP	P	00 24 24.8	-0.7
EFI	East Falkland	23.97	158	eP	P	00 24 33.0	-0.7
EFI	East Falkland	23.97	158	eP	P	00 24 25.2	-0.3
CLDB	Colider	24.40	42	P	P	00 24 28.7	-1.2
CLDB	Colider	24.40	42	P	P	00 28 52.9	+3.2
CLDB	Colider	24.40	42	eP	P	00 24 28.9	-1.1
PARB	Parabuna	24.56	80	P	P	00 24 29.7	-1.7
PARB	Parabuna	24.56	80	eP	P	00 24 29.9	-1.4
IPMB	Iperameri, GO	24.86	66	P	P	00 24 32.5	-1.6
IPMB	Iperameri, GO	24.86	66	eP	P	00 28 58.7	+1.4
IPMB	Iperameri, GO	24.86	66	eP	P	00 24 32.9	-1.2
USHA	Ushuaia	24.88	175	P	P	00 24 34.6	+0.7
USHA	Ushuaia	24.88	175	P	P	00 24 34.6	+0.7
USHA	Ushuaia	24.88	175	P	LR	00 35 25.4	
SLP01	Ubatuba-SP	24.96	81	P	P	00 24 33.9	-1.1
SLP01	Ubatuba-SP	24.96	81	eP	P	00 24 34.1	-0.9
MG01	Puerto William	25.05	174	P	Iamb	00 24 35.8	+0.5
MG01	Puerto William	25.05	174	P	Iamb	00 25 02.1	
MG01	Puerto William	25.05	174	P	IAMS_20	00 35 07.3	
CANS	Sao Roque de M	25.17	73	P	P	00 24 36.4	-0.6
CANS	Sao Roque de M	25.17	73	S	P	00 29 04.5	+2.2
SFA1	Serra Facao	25.27	67	P	P	00 24 37.0	-0.9
SFA1	Serra Facao	25.27	67	S	P	00 29 06.5	+2.6
BAT3	Iperameri	25.72	66	S	P	00 24 41.2	-0.7
BAT3	Iperameri	25.72	66	S	P	00 29 14.5	+3.6
BAT2	UHE Batalha	25.79	66	P	P	00 24 41.3	-1.3
TBTG	Tabatinga, AM	25.83	5	P	P	00 24 42.7	-0.1
TBTG	Tabatinga, AM	25.83	5	P	P	00 24 43.6	+0.8
TBTG	Tabatinga, AM	25.83	5	S	P	00 29 10.5	-2.0
TBTG	Tabatinga, AM	25.83	5	S	P	00 24 43.0	+0.9
TBTG	Tabatinga, AM	25.83	5	S	P	00 24 43.6	+0.8
PMNB	Patos De Minas	25.99	70	P	P	00 24 44.2	-0.3
PMNB	Patos De Minas	25.99	70	P	P	00 29 19.4	+4.1
PMNB	Patos De Minas	25.99	70	P	P	00 24 43.7	-0.7
PMNB	Patos De Minas	25.99	70	eP	P	00 24 43.8	-0.7

MAN01	Angra dos Reis	26.15	81	P	P	00 24 43.5	-2.3
MAN01	Angra dos Reis	26.15	81	eP	P	00 24 45.0	-0.8
BSCB	Bom Sucesso	26.21	76	P	P	00 24 45.8	-0.6
BSCB	Bom Sucesso	26.21	76	eP	P	00 24 45.8	-0.6
BDFB	Brasilia	26.36	62	P	P	00 24 46.2	-1.6
BDFB	Brasilia	26.36	62	P	P	00 24 47.5	-0.3
BDFB	Brasilia	26.36	62	P	LR	00 35 25.3	
BDFB	Brasilia	26.36	62	P	LR	00 35 25.3	
BDFB	Brasilia	26.36	62	P	P	00 24 47.6	-0.2
BDFB	Brasilia	26.36	62	S	P	00 29 23.1	+1.9
SNDB	Serra Nova Dou	26.41	51	P	P	00 24 47.6	-0.5
SNDB	Serra Nova Dou	26.41	51	S	P	00 29 18.5	-3.1
SNDB	Serra Nova Dou	26.41	51	S	P	00 24 47.9	-0.2
MCRA	Manacaru-AM	26.62	342	P	P	00 24 51.0	+0.9
VAS01	Vassouras-RJ	26.62	80	P	P	00 24 51.4	-0.4
VAS01	Vassouras-RJ	26.62	80	eP	P	00 24 51.7	-0.1
TEFE	Tefe	27.15	36	P	P	00 24 56.4	-0.1
TEFE	Tefe	27.15	36	P	P	00 24 57.1	+0.5
SIM2	UHE Simplicio	27.50	80	P	P	00 24 57.7	-0.2
CAN3	Canava Brava	27.75	58	P	P	00 24 59.6	-0.6
NPGB	Novo Progresso	27.79	38	P	P	00 24 59.6	-0.9
NPGB	Novo Progresso	27.79	38	eP	P	00 29 45.2	+1.6
DUB01	Friburgo-RJ	27.80	80	P	P	00 25 00.4	-0.3
DUB01	Friburgo-RJ	27.80	80	eP	P	00 25 00.4	-0.3
SSV2	Sao Salvador	27.97	57	P	P	00 25 02.2	+0.1
COHC	Cochoyacu	28.28	345	P	P	00 25 07.8	+2.9
JOT1	Jequituba-MG	28.36	69	P	P	00 25 05.1	-0.5
DIAM	Diamantina, MG	28.38	72	P	P	00 25 06.0	+0.1
DIAM	Diamantina, MG	28.38	72	eP	P	00 25 05.8	-0.1
CAM01	Campos-RJ	28.52	80	P	P	00 25 06.7	-0.3
CAM01	Campos-RJ	28.52	80	eP	P	00 25 06.6	-0.3
MACA	Manacapuru-AM	28.87	24	P	IAMS_20	00 38 00.3	
MACA	Manacapuru-AM	28.87	24	P	IAMS_20	00 38 00.3	
MACA	Manacapuru-AM	28.87	24	P	P	00 25 10.0	-0.1
MACA	Manacapuru-AM	28.87	24	P	P	00 25 10.4	+0.7
MACA	Manacapuru-AM	28.87	24	P	P	00 25 10.4	+0.3
MC01	Montes Claros	28.98	69	P	P	00 25 10.3	-0.9
PIAT	Ana Tenorio	29.50	347	P	P	00 25 20.2	

Table with columns for station name, frequency, power, and other technical details. Includes stations like FDF Fort de France, SVN Savane Anatole, and QSPA South Pole Qui.

Table with columns for station name, frequency, power, and other technical details. Includes stations like QSPA South Pole Qui, QSPA 2.35nm, 1.0s, and QSPA 2.8um, 18.5s.

Table with columns for station name, frequency, power, and other technical details. Includes stations like V58A comp=Z,96nm,1.0s, Z41A Richard Creek, and W50A Signal Mountain.

Table with columns: Station ID, Name, Frequency, Power, Modulation, Bandwidth, and other technical details. Includes stations like R58B Mineral, PEBM Pemisco Bay, GLAT Dingess, CBN Corbin Frederi, VHRN Van Horn, etc.

Table with columns: Station ID, Name, Frequency, Power, Modulation, Bandwidth, and other technical details. Includes stations like P52A Corning, MSTX Muleshoe, CSTR Hydro, CCM Cathedral Cave, etc.

Table with columns: Station ID, Name, Frequency, Power, Modulation, Bandwidth, and other technical details. Includes stations like P40A Paris, ALLY Alegheny Cole, M52A Chesterland, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like LBNH, DBIC, DBIC, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like ISCO, ISCO, ISCO, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like MACI, MACI, MACI, etc.



CMLA	comp-Z,69nm,0.9s	80.32	36	P	P	00 31 22.5 +0.1
CMLA	comp-Z,54nm,0.9s			Pmax	Pmax	
CMLA	comp-Z,139m,1.8s			MLR	MLR	
TSUM	Tsumeb	80.36	107	P	P	00 31 22.8 -0.6
TSUM	Tsumeb	80.36	107	LR	LR	01 03 55.2
Q09A	comp-Z,269m,18.2s,baz=236,slo=34			P	P	00 31 24.7 +1.7
GRHM	Grahamstown, E	80.49	123	P	P	00 31 23.4 -0.3
GRHM				Iamb	Iamb	00 32 34.8
BART	Pico Bartolome	80.51	36	eP	P	00 31 24.4 +0.9
BART				i/Iamb	Iamb	00 31 38.7
BART	Pico Bartolome	80.51	36	eP	P	00 31 24.4 +0.9
BART				i/Iamb	Iamb	00 31 38.7
E28A	Huff	80.56	340	P	P	00 31 24.8 +1.3
NV11	Mina Array Sit	80.57	325	P	P	00 31 24.4 +0.5
NV11				Iamb	Iamb	00 31 57.2
LHV	comp-Z,177nm,2.0s					
LHV	Little Hunter	80.61	325	P	P	00 31 25.5 +1.6
NVAR	Mina Array Bea	80.64	325	P	P	00 31 25.5 +1.1
NVAR	Mina Array Bea	80.64	325	P	P	00 31 26.7 +2.3
NVAR	comp-Z,6.9nm,0.7s,baz=144,slo=6.0,SNR=36			PKPKB	PKPKB	00 50 06.9 +1.1
NVAR	comp-Z,1.1nm,0.8s,baz=318,slo=1.2,SNR=4.7			LR	LR	01 00 24.3
NVAR	comp-Z,39m,22.0s,baz=130,slo=31					
BBGB	Big Mountain B	80.65	322	P	P	00 31 25.4 +1.1
BBGB				Iamb	Iamb	00 31 52.9
BBGB	comp-Z,128nm,1.0s			IAMS_20	IAMS_20	01 02 27.2
KOOLE	Kule	80.70	111	P	P	00 31 25.2 +0.1
KOOLE				Iamb	Iamb	00 31 44.5
KOOLE	comp-Z,222nm,1.6s					
KOOLE	Kule	80.70	111	i/P	P	00 31 26.2 +1.1
HVU	Hansel Valley	80.75	330	P	P	00 31 25.9 +1.1
HVU				IAMS_20	IAMS_20	01 03 38.6
HVU	Hansel Valley	80.75	330	P	P	00 31 25.9 +1.1
HVU				Pmax	Pmax	
AHID	Auburn Hatcher	80.86	332	P	P	00 31 26.4 +1.0
AHID				IAMS_20	IAMS_20	01 04 55.7
AHID	Auburn Hatcher	80.86	332	i/P	P	00 31 26.9 +1.5
AGMN	Agassiz Nation	80.87	344	P	P	00 31 25.9 +0.8
AGMN				Iamb	Iamb	00 31 38.3
AGMN	comp-Z,83nm,0.9s			IAMS_20	IAMS_20	01 12 38.7
AGMN	comp-Z,71m,21.0s					
AGMN	Agassiz Nation	80.87	344	i/P	P	00 31 25.4 +0.3
RYN	Ryan	80.91	328	P	P	00 31 27.4 -0.4
ELK	Elko	81.00	328	P	P	00 31 26.9 +0.6
ELK				IAMS_20	IAMS_20	01 03 21.4
ELK	comp-Z,61m,19.0s					
ELK	Elko	81.00	328	LR	LR	01 03 32.3
ELK	comp-Z,51m,20.8s,baz=142,slo=33					
ELK	Elko	81.00	328	P	P	00 31 29.6 +0.6
ELK				Pmax	Pmax	
ELK	comp-Z,81nm,1.3s					
ELK	Elko	81.00	328	i/P	P	00 31 27.8 +1.6
SAO	San Andreas Ge	81.00	322	P	P	00 31 27.6 -0.5
SAO	San Andreas Ge	81.00	322	P	P	00 31 27.9 +1.8
WAKR	Walker	81.27	324	P	P	00 31 29.8 -0.0
SNOW	Snow King Moun	81.31	333	P	P	00 31 28.6 +0.8
PMOZ	Porto Moniz, M	81.34	44	P	P	00 31 29.9 +1.8
PMOZ	Porto Moniz, M	81.34	44	eP	P	00 31 29.0 +1.0
PMOZ				Iamb	Iamb	00 32 01.7
PMOZ	comp-Z,195nm,1.6s			ePP	PP	00 34 31.4 -2.8
PMOZ				eS	SKSac	00 41 46.1 -1.5
PMOZ				eSS		00 46 57.2 +1.5
PMOZ				eLR	LR	01 00 28.2
PMOZ				i/IAMS_20		01 09 38.2
LOHW	Long Hollow	81.37	333	P	P	00 34 31.4 +0.4
LOHW				IAMS_20	IAMS_20	01 04 16.1
CMB	Columbia Colle	81.40	323	P	P	00 31 28.8 +0.6
CMB	Columbia Colle	81.40	323	P	P	00 31 28.8 +0.6
CMB				Pmax	Pmax	
FUL	Funchal	81.40	44	eP	P	00 31 30.2 +2.0
FUL				Iamb	Iamb	00 31 43.7
FUL	comp-Z,210nm,1.6s					
TPAW	Teton Pass	81.41	333	ePP	PP	00 34 35.0 +0.5
MDACK	Maddock	81.41	342	P	P	00 31 29.4 +0.5
PMAR	Madeira	81.44	44	eP	P	00 31 29.3 +1.3
PMAR				Iamb	Iamb	00 31 29.5 +0.8
PMAR	comp-Z,284nm,1.6s					
PMAR	Fox Creek	81.56	333	P	P	00 34 35.7 +0.5
PHEN	Phenep	81.63	114	P	P	00 31 29.9 -0.1
PHEN				Iamb	Iamb	00 31 49.3
PHEN	comp-Z,238nm,1.9s					
EPLO	Phenep	81.63	114	i/P	P	00 31 30.5 +0.6
EPLO	Experimental L	81.69	346	P	P	00 31 30.2 +0.8
EPLO				Iamb	Iamb	00 31 42.3
PNTR	Pine Nut	81.80	325	P	P	00 31 31.2 +0.7
PNTR				Iamb	Iamb	00 31 44.1
PNTR	comp-Z,125nm,1.2s					
BOSA	Boshof	81.96	118	P	P	00 31 31.4 -0.2
BOSA	Boshof	81.96	118	P	P	00 31 31.8 +0.1
BOSA	comp-Z,17nm,0.9s,baz=248,slo=3.8,SNR=17			LR	LR	01 03 26.7
BOSA	comp-Z,159m,20.2s,baz=240,slo=32					
BOSA	Boshof	81.96	118	P	P	00 31 31.8 +0.1
BOSA				S	S	00 41 44.1 -2.0
HOTA	Grant Village	82.02	333	IAMS_20	IAMS_20	01 04 51.9
PMPs	Porto Santo	82.02	45	eP	P	00 31 34.1 +2.6
PMPs				Iamb	Iamb	00 32 05.5
PMPs	comp-Z,165nm,1.6s					
PMPs	Porto Santo, M	82.04	45	eP	P	00 31 33.3 +1.7
RLMT	Red Lodge	82.13	334	P	P	00 31 33.3 +1.2
YMP	Mirror Lake Pl	82.14	334	P	P	00 31 32.9 +0.6
PAHR	Pah Rah Range	82.16	325	P	P	00 31 33.9 +1.6
PAHR				Iamb	Iamb	00 31 45.9
YFT	Old Faithful	82.17	333	P	P	00 31 33.0 +0.7
MPK	Martis Peak	82.17	324	P	P	00 31 33.8 +1.2
MPK				Iamb	Iamb	00 31 49.2
GRTLG	comp-Z,95nm,1.0s					
GRTLG	Ghanzi	82.31	110	Iamb	Iamb	00 31 53.1
GRTLG	comp-Z,200nm,1.6s					
GRTLG	Ghanzi	82.31	110	i/P	P	00 31 34.4 +0.8
YNE	Yellowstone No	82.31	334	P	P	00 31 33.0 -0.1
YNR	Norris Junction	82.33	333	P	P	00 31 34.4 +1.2
YNR				IAMS_20	IAMS_20	01 05 02.2
YNN	Yellowstone No	82.34	333	P	P	00 31 35.1 +1.8
YNN				IAMS_20	IAMS_20	01 05 03.7
YGCAE	Kagae	82.39	112	P	P	00 31 34.2 +0.1
YGCAE				Iamb	Iamb	00 31 36.5
YGCAE	comp-Z,154nm,1.5s					
YGCAE	Kagae	82.39	112	i/P	P	00 31 34.8 +0.7
AFDM	Forest Hills D	82.39	324	P	P	00 31 34.8 +1.5
AFDM				Iamb	Iamb	00 31 46.3
LAO	LASA Array	82.39	337	P	P	00 31 34.4 +1.2
LAO				Iamb	Iamb	00 31 47.0
YHH	Holmes Hill	82.45	333	P	P	00 31 35.5 +1.6
YHB	Horse Butte	82.56	333	P	P	00 31 35.7 +1.4
YHL	Hebgen Lake	82.64	333	P	P	00 31 35.8 +1.0
ULM	Lac du Bonnet	82.70	345	P	P	00 31 35.3 +0.6
ULM				Iamb	Iamb	00 31 48.0
BEKR	Beckworth	82.77	325	P	P	00 31 37.3 +1.8
MCCM	Marconi Confer	82.79	322	P	P	00 31 36.1 +0.7
MCCM				Iamb	Iamb	00 31 48.0
GMCT	Greycliff	82.85	335	P	P	00 31 36.9 +1.2
HLID	Hailey	82.90	330	P	P	00 31 36.8 +0.7

HLID	comp-Z,86nm,1.2s			Iamb	Iamb	00 31 49.4
HLID	comp-Z,71m,21.0s			IAMS_20	IAMS_20	01 03 46.5
TORD	Tordi Ar. Bea	82.94	70	P	P	00 31 37.1 +0.4
TORD	Tordi Ar. Bea	82.94	70	P	P	00 31 37.3 +0.6
TORD	comp-Z,136nm,1.1s,baz=268,slo=3.3,SNR=85			LR	LR	01 07 22.5
SKOMA	Sekoma	82.95	114	i/P	P	00 31 37.9 +1.0
ORV	Oroville	83.11	324	P	P	00 31 38.8 +1.7
ORV				Iamb	Iamb	00 31 50.5
ORV	comp-Z,168nm,1.3s					
ORV	Oroville	83.11	324	P	P	00 31 38.8 +1.7
ORV				Pmax	Pmax	
QNGWA	Qangwa	83.17	108	P	P	00 31 38.2 +0.1
QNGWA				Iamb	Iamb	00 31 40.8
QNGWA	comp-Z,106nm,1.4s					
GDXM	Geysers	83.23	322	P	P	00 31 38.8 +1.0
MCMT	McKenzie Canyo	83.28	332	P	P	00 31 39.5 +1.3
DGMT	Dagmar	83.31	339	P	P	00 31 39.1 +1.2
MFID	Camas Ranch	83.40	330	IAMS_20	IAMS_20	01 04 51.6
MFID	comp-Z,94m,20.0s					
HOPS	Hopland Field	83.52	322	P	P	00 31 41.1 -0.1
DLMT	Dillon	83.62	333	P	P	00 31 41.1 +1.3
DLMT				Iamb	Iamb	00 31 54.0
XAUDM	Khaudum	83.79	108	P	P	00 31 42.0 +0.7
XAUDM				Iamb	Iamb	00 31 44.5
XAUDM	comp-Z,131nm,1.6s					
WVOR	Wild Horse Val	83.90	327	P	P	00 31 41.4 +0.2
WVOR				IAMS_20	IAMS_20	01 05 53.0
WVOR	comp-Z,61m,18.0s					
WVOR	Wild Horse Val	83.90	327	P	P	00 31 41.4 +0.2
WVOR				Pmax	Pmax	
CASY	Casey	83.93	181	P	P	00 31 41.9 +0.9
CASY				Iamb	Iamb	00 31 57.5
CASY	comp-Z,91nm,1.4s					
LRM	Limekiln Ridge	83.94	333	P	P	00 31 43.0 +1.5
LBTB	Labatse	84.01	115	Iamb	Iamb	00 31 42.0 -0.4
LBTB				Iamb	Iamb	00 31 44.3
LBTB	comp-Z,126nm,1.4s					
LBTB	Labatse	84.01	115	LR	LR	01 05 50.5
LBTB	comp-Z,201m,18.5s,baz=233,slo=33					
LBTB	Labatse	84.01	115	P	P	00 31 42.0 -0.4
LBTB				Pmax	Pmax	
HATC	Hat Creek Ridi	84.04	325	P	P	00 31 43.4 +1.5
HATC				IAMS_20	IAMS_20	01 08 00.7
HATC	comp-Z,51m,18.0s					
GMARE	Gumare	84.05	109	P	P	00 31 43.0 +0.4
GMARE				Iamb	Iamb	00 31 44.4
GMARE	comp-Z,157nm,1.7s					
KDWAN	Kaudwane	84.09	113	P	P	00 31 43.0 +0.2
KDWAN				Iamb	Iamb	00 31 45.1
KDWAN	comp-Z,171nm,1.4s					
O02D	Mt. Diablo Mer	84.24	323	IAMS_20	IAMS_20	01 02 22.0
O02D	comp-Z,71m,22.0s					
KCPM	Cahto Peak	84.29	323	P	P	00 31 45.8 +0.5
HRY	Holter Researc	84.44	334	P	P	00 31 44.6 +0.7
J08A	Circle Bar Ran	84.54	328	P	P	00 31 44.4 -0.1
J08A				IAMS_20	IAMS_20	01 04 19.9
J08A	comp-Z,61m,20.0s					
SCHO	Schefferville	84.68	3	P	P	00 31 45.9 +1.1
SCHO	comp-Z,62m,1.2s,baz=184,slo=3.3,SNR=19					
KMRM	Mail Ridge	84.75	323	P	P	00 31 46.8 +1.3
KMRM				Iamb	Iamb	00 32 07.8
KMRM	comp-Z,139nm,1.2s					
EGMT	Eagleton	84.77	336	P	P	00 31 45.8 +0.3
EGMT				Iamb	Iamb	00 31 48.3
PLID	Pearl Lake	84.81	330	Iamb	Iamb	00 31 51.5
PLID	comp-Z,54nm,0.8s					
PLID				IAMS_20	IAMS_20	01 06 01.9
LYMT	Lyon Mountain	84.83	334	P	P	00 31 47.2 +1.3
BPMT	Black Pine Rid	84.84	333	P	P	00 31 47.4 +1.3
LPHEP	Lephephe	85.05	114	P	P	00 31 47.6 0.0
LPHEP		</				

MORF	Marnelete	89.54	46	ePP	P	00 32 09.7 +0.9
MORF	Marnelete	89.54	46	ePP	PP	00 35 40.8 +0.1
MORF	Marnelete	89.54	46	ePP	SKSac	00 42 39.4 +0.2
MORF	Marnelete	89.54	46	ePP	IAMS_20	01 11 57.1
MORF	Marnelete	89.54	46	ePP	P	00 32 07.8 -1.0
MORF	Marnelete	89.54	46	ePP	PP	00 32 10.0 +1.2
MORF	Marnelete	89.54	46	ePP	P	00 35 39.4 -1.3
MORF	Marnelete	89.54	46	ePP	PP	00 32 07.8 -1.0
MORF	Marnelete	89.54	46	ePP	P	00 32 10.4 +1.1
MORF	Marnelete	89.54	46	ePP	P	00 32 36.2
PTEO	Sao Teotonio	89.54	46	ePP	I Amb	00 35 40.5 -1.0
PTEO	Sao Teotonio	89.54	46	ePP	PP	00 32 10.0 +0.7
PTEO	Sao Teotonio	89.54	46	ePP	P	00 32 11.4 +1.6
PTEO	Sao Teotonio	89.54	46	ePP	P	00 32 11.5 +1.0
PTEO	Sao Teotonio	89.54	46	ePP	PP	00 35 43.3 -0.7
PTEO	Sao Teotonio	89.54	46	ePP	P	00 32 12.0 +1.0
PTEO	Sao Teotonio	89.54	46	ePP	I Amb	00 32 33.8
PTEO	Sao Teotonio	89.54	46	ePP	IAMS_20	01 06 34.4
PCVE	Castro Verde	90.12	46	ePP	P	00 32 12.8 +1.4
PCVE	Castro Verde	90.12	46	ePP	P	00 32 12.8 +1.4
PCVE	Castro Verde	90.12	46	ePP	I Amb	00 33 10.4
PCVE	Castro Verde	90.12	46	ePP	P	00 35 44.4 -0.9
PCVE	Castro Verde	90.12	46	ePP	PP	00 32 12.3 +1.0
PCVE	Castro Verde	90.12	46	ePP	SKSac	00 42 42.7 +0.3
PCVE	Castro Verde	90.12	46	ePP	IAMS_20	01 15 39.5
LIS	Lisbon	90.13	44	ePP	PP	00 35 44.4 -0.9
LIS	Lisbon	90.13	44	ePP	P	00 32 13.1 +1.6
LIS	Lisbon	90.13	44	ePP	P	00 32 13.0 +1.6
LIS	Lisbon	90.13	44	ePP	P	00 32 12.4 +1.0
LIS	Lisbon	90.13	44	ePP	P	00 42 42.7
LIS	Lisbon	90.13	44	ePP	P	00 32 12.5 +1.0
LIS	Lisbon	90.13	44	ePP	PP	00 35 45.5 0.0
LIS	Lisbon	90.13	44	ePP	SKSac	00 42 42.9 +0.3
LIS	Lisbon	90.13	44	ePP	IAMS_20	01 13 16.2
MESJ	Messejana	90.14	45	ePP	P	00 32 12.0 +0.5
MESJ	Messejana	90.14	45	ePP	P	00 32 12.3 +0.8
MESJ	Messejana	90.14	45	ePP	I Amb	00 32 30.8
MESJ	Messejana	90.14	45	ePP	PP	00 35 44.4 -1.1
MESJ	Messejana	90.14	45	ePP	P	00 32 12.5 +1.0
MESJ	Messejana	90.14	45	ePP	P	00 42 42.9
MESJ	Messejana	90.14	45	ePP	P	00 32 12.8 +1.1
MESJ	Messejana	90.14	45	ePP	P	00 32 12.9 +1.2
MESJ	Messejana	90.14	45	ePP	P	00 32 13.2 +1.5
MESJ	Messejana	90.14	45	ePP	I Amb	00 32 27.2
MESJ	Messejana	90.14	45	ePP	PP	00 35 45.2 -0.6
MESJ	Messejana	90.14	45	ePP	eLR	01 04 27.0
MESJ	Messejana	90.14	45	ePP	IAMS_20	01 13 37.5
PVAQ	Vaqueiros	90.18	46	ePP	P	00 32 12.8 +1.1
PVAQ	Vaqueiros	90.18	46	ePP	P	00 32 12.9 +1.2
PVAQ	Vaqueiros	90.18	46	ePP	P	00 32 13.2 +1.5
PVAQ	Vaqueiros	90.18	46	ePP	I Amb	00 32 27.2
PVAQ	Vaqueiros	90.18	46	ePP	PP	00 35 45.2 -0.6
PVAQ	Vaqueiros	90.18	46	ePP	eLR	01 04 27.0
PVAQ	Vaqueiros	90.18	46	ePP	IAMS_20	01 13 37.5
OVAZ	Omahuta	90.33	228	IAMS_20	IAMS_20	01 04 47.7
FCC	Fort Churchill	90.38	349	IAMS_20	I Amb	00 32 25.6
FCC	Fort Churchill	90.38	349	IAMS_20	IAMS_20	01 17 48.0
EGRO	El Granado	90.41	46	ePP	P	00 32 13.9 +1.2
PBEJ	Beja	90.48	45	ePP	I Amb	00 32 14.3 +1.2
PBEJ	Beja	90.48	45	ePP	P	00 32 34.5
PBEJ	Beja	90.48	45	ePP	PP	00 35 48.4 +0.3
PBEJ	Beja	90.48	45	ePP	P	00 32 13.8 +0.7
PBEJ	Beja	90.48	45	ePP	I Amb	00 32 28.1
MOE	Montemor	90.49	45	ePP	P	00 35 47.8 -0.4
MOE	Montemor	90.49	45	ePP	PP	00 32 14.2 +1.2
MOE	Montemor	90.49	45	ePP	I Amb	00 32 22.2
A04D	Lummi Island	90.53	329	I Amb	I Amb	00 32 15.0 +0.9
A04D	Lummi Island	90.53	329	I Amb	I Amb	00 32 15.5 +1.4
A04D	Lummi Island	90.53	329	I Amb	I Amb	00 32 16.8
EVO	Evora	90.70	45	ePP	P	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0 +1.7
EVO	Evora	90.70	45	ePP	IAMS_20	01 10 11.8
EVO	Evora	90.70	45	ePP	PP	00 35 49.8 -0.1
EVO	Evora	90.70	45	ePP	P	00 32 15.7 +1.3
EVO	Evora	90.70	45	ePP	P	00 32 16.1 +1.7
EVO	Evora	90.70	45	ePP	P	00 32 14.8 +0.5
EVO	Evora	90.70	45	ePP	P	00 32 16.0



Table with columns: Country, Name, Date, Time, Status, and other identifiers. Includes entries like D23K Nanushuk River, LIA Limnos Island, M17K Holtina River, etc.

Table with columns: Country, Name, Date, Time, Status, and other identifiers. Includes entries like GULT Gulveren, EIL Elat, GAZI Gazipasa, etc.

Table with columns: Country, Name, Date, Time, Status, and other identifiers. Includes entries like ANN Anapa, ANN Anapa, ANN Anapa, etc.



Table with columns for station name, coordinates, and various data points. Includes stations like GOMU, BJI, SSE, GTA, HHC, QIZ, QZH, BTO, TIA, TNCH, NJ2, HNS, TIY, GZH, LZH, KMI, PZH, and PZM.

Table with columns for station name, coordinates, and various data points. Includes stations like PZH, LYN, WHN, GULI, CNSH, XIAN, GYA, CD2, ROM, MC2, NRCA, FEMA, IMMO1, FDMO, GUMA, CESI, MTR, MTR, MF5, PFE, MML1, SAP2, GAVE, SMA1, and SMA1.

Table with columns for station name, coordinates, and various data points. Includes stations like SMA1, LNSS, MNTT, RM33, EL6, TIR, OHR, KBN, TIR, NEST, PUK, NASA, KZN, BCI, KPRO, VAY, VAY, VAY, VAY, MSVA, JAN, JAN, JAN, JAN, DRME, DRME, DRME, DRME, KNT, KNT, KNT, KEK, PDG, PDG, PDG, PDG, IGT, IGT, IGT, IGT.







Table of astronomical observations with columns for station name, frequency, polarization, and signal-to-noise ratio. Includes stations like AKL, RAYN, KIBK, LODK, KBL, EVN, SIMJ, etc.

Table of astronomical observations with columns for station name, frequency, polarization, and signal-to-noise ratio. Includes stations like BIAO, ABTA, PRMA, TORO, TORI, WATA, SQTA, MOTA, FETA, BRG, GURO, GNI, LSA, GAZ, KK31, etc.

ISC 14 01:10:41.81-1.2, 28.66N, 104.4:12.87W:0.04, h8km, Res 1.3m, 0.4s

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like SFOB, SFOB, SFOB, etc.

14 01:12:03.0±0.5, 5:23S, 153°69E, h0km, mb4.5/19, mb4.5/22, ML3.1/2, Error ellipse: s-maj=18.7km s-min=12.6km az=82.0

14 01:12:08.9, 4:61S, 153°92E, h39km, mb4.8/36, NEIC 14 01:12:10.8±1.4, 5:24S:0.07, 153°52E:0.05, h47km, 6km, mb4.8/47, Error ellipse: s-maj=15.2km s-min=2.4km az=144.0

DJA 14 01:12:12.1±1.0, 6:5S, 15°4E, h65km, 6km, M4.9/19, mb4.7/19, mb5.5/4, MLV6.02, Mw(19)5.04

ISC 14 01:12:10.4±0.3, 5:28S:0.05, 153°59E:0.06, h50km, n125, s125/117, mb4.8/53, 2C, New Ireland region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like RABUL, MANU, HNR, HNR, PMG, PMG, PMG, etc.

Table of astronomical observations with columns for station name, frequency, polarization, and signal-to-noise ratio. Includes stations like ASAR, KNRA, STKA, FORT, RTZ, BJK, JMN, MJAR, JTM, KSRs, NJ2, USRK, TIA, CN2, HNS, BNX, XAN, PETK, CM31, CMAR, CHTO, CHTO, PZH, XLT, HEH, HHC, DRV, MA2, MA2, MA2, ULN, SONM, SONM, CCD, EVN, VNYA, VNYA, K15K, Q19K, J17K, L19K, SML, E19K, MLY, MKAR, MKAR, ZALV, ZALV, ILAR, J25K, M27K, D23K, KDJ, KSH, G26K, BOOM, KURK, KURB, QSPA, QSPA, MAW, MAW, CHMS, AAK, K29M, USP, I29M, AML, J30M, KKAR, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like Borovoye Array, Mina Array Be, Yellowknife Arr, etc.

IDC 14 01:23:31.0, 1.8, 6.51N, 60.64E, h0km, mb3.8/10, mbmp3.8/10, MS4.9/1, Error ellipse: s-maj=45.0km s-min=22.9km az=24.0

ISC 14 01:23:32.6, 1.9, 6.50N, 60.70E, 0.2, h10km, n15, r0537/11, mb3.9/11, Carlsberg Ridge

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like OPO Ambohidratompo, CMAR Chiang Mai Arr, BRTR Keskin Array B, etc.

IDC 14 01:29:19.3, 3.1, 8.04S, 124.26E, h154km, 31km, mb3.2/4, mbmp3.8/8, Error ellipse: s-maj=62.8km s-min=11.9km

ISC 14 01:29:18.6, 0.9, 8.09S, 124.5E, 0.1, h150km, n8, r289/12, mb3.4/4, Timgon region

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like BATI Baumata, FITZ Fitzroy Crossi, WRA Warrungarra Arr, etc.

IDC 14 01:35:02.1, 1.1, 5.99N, 60.58E, h0km, mb4.0/17, mbmp4.0/17, Error ellipse: s-maj=31.7km s-min=17.6km az=35.0

NEIC 14 01:35:05.0, 1.7, 5.9N, 60.7E, 0.1, h10km, 2km, mb4.3/24, Error ellipse: s-maj=24.6km s-min=18.3km az=167.0

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like HMDM Hanimaadhooh, MNGI Mangalore, MNGI Mangalore, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like TRD Trivandrum, POO Poona, POC Minazif, etc.

IDC 14 01:23:31.0, 1.8, 6.51N, 60.64E, h0km, mb3.8/10, mbmp3.8/10, MS4.9/1, Error ellipse: s-maj=45.0km s-min=22.9km az=24.0

ISC 14 01:23:32.6, 1.9, 6.50N, 60.70E, 0.2, h10km, n15, r0537/11, mb3.9/11, Carlsberg Ridge

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like H04N1 CROZET ISLANDS 52.38, H04N2 CROZET ISLANDS 52.38, H04N3 CROZET ISLANDS 52.40, etc.

IDC 14 01:38:20.0, 2.0, 7.30S, 172.44W, h6km, 3km, ML4.5, MW4.2

IDC 14 01:38:25.0, 0.5, 3.0, 14S, 71.97W, h0km, mb4.4/13, mbmp4.3/18, ML4.1/5, Error ellipse: s-maj=18.8km s-min=14.1km az=77.0

GUC 14 01:38:25.9, 0.7, 3.0, 17S, 72.18W, h25km, ML4.4

NEIC 14 01:38:26.0, 1.8, 3.0, 13S, 0.04, 72.13W, 0.06, h10km, 1km, mb4.8/22, MW4.6/26, ML4.4(GUC), Error ellipse: s-maj=9.2km s-min=6.2km az=235.0

VAO 14 01:38:26.9, 0.6, 3.0, 09S, 71.94W, h10km, mb4.5

ISC 14 01:38:27.0, 0.4, 3.0, 02S, 72.12W, 0.04, h10km, n172, r161/187, mb4.7/24, 5C, Off coast of central Chile

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like CO06 Fray Jorge, CO06 Fray Jorge, CO06 La Serena, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like AC04 Llanos de Chal, AC04 Llanos de Chal, AC04 Llanos de Chal, etc.

IDC 14 01:23:31.0, 1.8, 6.51N, 60.64E, h0km, mb3.8/10, mbmp3.8/10, MS4.9/1, Error ellipse: s-maj=45.0km s-min=22.9km az=24.0

ISC 14 01:23:32.6, 1.9, 6.50N, 60.70E, 0.2, h10km, n15, r0537/11, mb3.9/11, Carlsberg Ridge

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like CFA Coronel Fontan, CFA Coronel Fontan, CFA Coronel Fontan, etc.

IDC 14 01:38:20.0, 2.0, 7.30S, 172.44W, h6km, 3km, ML4.5, MW4.2

IDC 14 01:38:25.0, 0.5, 3.0, 14S, 71.97W, h0km, mb4.4/13, mbmp4.3/18, ML4.1/5, Error ellipse: s-maj=18.8km s-min=14.1km az=77.0

GUC 14 01:38:25.9, 0.7, 3.0, 17S, 72.18W, h25km, ML4.4

NEIC 14 01:38:26.0, 1.8, 3.0, 13S, 0.04, 72.13W, 0.06, h10km, 1km, mb4.8/22, MW4.6/26, ML4.4(GUC), Error ellipse: s-maj=9.2km s-min=6.2km az=235.0

VAO 14 01:38:26.9, 0.6, 3.0, 09S, 71.94W, h10km, mb4.5

ISC 14 01:38:27.0, 0.4, 3.0, 02S, 72.12W, 0.04, h10km, n172, r161/187, mb4.7/24, 5C, Off coast of central Chile

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC. Includes stations like H03N1 Juan Fernandez, H03N2 Juan Fernandez, H03N3 Juan Fernandez, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like VILB Vilhena, MAJ01 Sao Joao Batist, PCMB Pacaembu, SALV Santo Antonio, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like MRZ Mangatoinoka R, WHZ Wether Hill Ro, EIDS Eidsvoll, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like DRME Dracevica, Mon, IVA Nicosia, BCI Bajram Curri, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like IDC 14 01:52:37.9, NEIC 14 01:52:39.4, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like TIR Tirane, OHR Ohrid, PUK Puka, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res. Includes stations like IDC 14 02:05:12.0, NEIC 14 02:05:13.7, etc.







14d 3h

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details. Includes stations like RAO, RAO, RAO, RAO, RAO, etc.

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details. Includes stations like PMG, MTSU, MTSU, MTSU, MTSU, etc.

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details. Includes stations like NWAO, SANI, SANI, SANI, SANI, etc.

Table with columns for station ID, name, frequency, power, and signal strength. Includes stations like NVAR Mina Array Bea, L04D Klamath Falls, NV11 Mina Array, PAHR Pat Rah Range, etc.

Table with columns for station ID, name, frequency, power, and signal strength. Includes stations like X18A Snowflake, ELK ELKO ELK, M15K Kasigluk River, N16K Nishih Lake, etc.

Table with columns for station ID, name, frequency, power, and signal strength. Includes stations like QIZ comp=Z,250nm,3.1s, CTU Camp Tracy, SIT Sitka, PLID Pearl Lake, etc.

14d 3h

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like BNX, J17K, J17K, DIV, MESA, PV22, SML, BMRM, M23K, U35K, CRQM, PNL, CRUC, CUT, I17K, I17K, KLU, KLU, SCM, SCM, J18K, J18K, MA2, MA2, TGL, PINM, PPLA, BCPM, R32K, GRNC, K20K, K20K, ANM, VRDI, WHN, WHN, WHN, WHN, WHN, WHN, NEW, NEW, CNSH, CNSH, CNSH, CNSH, N25K, N25K, P29M, P29M, GLB, PLCA, PLCA, M24K, LOGN, MCARA, MCARA, AHID, CTG, CTGM, H16K, WAT6, CAST, CAST, PLBC, T35M, J19K, J19K, WAT1, O28M, O29M, O29M, KTH, SKAG, SKAG, TRF, TRF, HARP, TIA, TIA, TIA, TIA.

2019 JUN

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like TIA, TIA, TIA, ODSA, P30M, CHUM, J20K, J20K, S34M, S34M, H17K, SYO, SYO, DLMT, DHY, DHY, F14K, TNA, TNA, GULI, GCSA, YUK8, TROLL, YUK6, G16K, G16K, PAX, M26K, M26K, BPAW, MCK, HYT, HYT, VNA3, H18K, SNA4, SNA4, SNA4, SNA4, F15K, F15K, YUK3, Q32M, Q32M, PDAR, PDAR, P32M, G17K, YUK4, I20K, M27K, MENT, HBVL, O30N, DLBC, DLBC, L26K, L26K, BVCY, H19K, N30M, N30M, K24K, VNA1, G18K, G18K, H20K, NEA2, RIDG, RIDG, R33M, R33M, L27K, L27K, DOT, P33M, P33M, MLY, MLY.

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like HEH, HEH, HEH, HEH, HDA, HDA, F17K, F17K, N31M, N31M, SEY, SEY, M29M, M29M, G19K, G19K, SCRK, SCRK, H21K, PSI, PSI, I23K, I23K, COLA, COLA, COLA, COLA, IL31, ILAR, ILAR, EFI, EFI, J25K, J25K, N32M, POKR, E17K, H22K, K27K, K27K, F19K, F19K, J26L, L29M, HNS, HNS, HNS, HNS, HNS, HNS, H23K, H23K, G21K, GSI, M31M, E18K, E18K, BJI, BJI, BJI, BJI, PEL, WTLY, D17K, H24K, LYN, LYN, LYN, LYN, F20K, PRP, PRP, DAWY, DAWY, FARO, FARO, E19K, E19K.



Table with columns: Name, RA, Dec, Mag, Parallax, Spectral Type, etc. Includes stars like SNART, LABN, SOC, DEL, SUW, etc.

Table with columns: Name, RA, Dec, Mag, Parallax, Spectral Type, etc. Includes stars like VYHS, BGES, BMRD, KRUC, TNS, DRGR, etc.

Table with columns: Name, RA, Dec, Mag, Parallax, Spectral Type, etc. Includes stars like s-maj=21.2km, NEIC, GCMT, etc.

Bul 14 03:59:28.8, 5.44N:60:31E, h10km, mB5.10, mb4.6/32, Ms4.7/18, Ms7 4.6/19...





Table with columns: Code, Station Name, Azimuth, Altitude, Op, Phase ID, ISC, Time, Res. Includes entries for MW4.0, NEIC, GUC, and various station codes like PEL, VAO3, ROCH, etc.

Table with columns: CFA, ACCO, G004, ML02, ACZV, ACZD, AVFE, ACHE, LCO, AGUA, BI05, AC04, ACCL, ACCL, G003, LR03, HO3S1, HO3S3, PLCA, G002, LR01, IT0B, CPUP, CPOP, LPAZ, SIIV, EFI, BDFB, MAL2, RUSC, SNAAC, SNAAC, SPOR, TX31, TXAR, WWT, LCAR, MNTX, DBIC, DBIC, MAW, BOSA, TORD, PDAR, NVAR, WRA, ARCES, H1S2, H1S1, H1S3, H1N3, H1N1, H1N2, BVAR, BVAR, KURBB, ZALV, MKAR, PZH, SJA, IDIC, NEIC, GUC, NEIC. Includes detailed station and event information.

Table with columns: VAO, Code, Station Name, Azimuth, Altitude, Op, Phase ID, ISC, Time, Res. Includes entries for VAO 14:04:21:30.5, 1.6, 29:95S:71:81W, h60km, 10km, mb4.6, and various station codes like ROCH, VAO3, AGUA, etc.



Table with columns for station code, name, frequency, and other technical details. Includes stations like PPT2, GUMO, FITZ, MBWA, NWA0, etc.

Table with columns for station code, name, frequency, and other technical details. Includes stations like USRK, SHEM, GULI, WHN, GULI, etc.

Table with columns for station code, name, frequency, and other technical details. Includes stations like CHIR, BTO, BTO, BTO, etc.







Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like EKA Eskaulem Ar, FRGS Fruska Gora, ZVNC Zivkov, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like DYA Yadsworth, JUC Castrocuco, PCAE Saint Aubin, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like ILLN Lien, BHD Baghdad, IKRK Kiruk, etc.

BUI 14 04:56:25.3 4.275:131.70E,h24km,mB5.0/9,mB4.7/40, Ms4.5/2,M67 4.2

IDC 14 04:56:26.0 4.2 0.20S:131.60E,h0km,mB4.5/14, mbtmP4.5/16,ML4.7/2,MS4.0/10,Error ellipse: s-maj=26.4km s-min=12.7km az=82.0

NEIC 14 04:56:28.4 1.7 4.13S:04.131E,5E:0.07,h10km,1km, mb4.8/11, Error ellipse: s-maj=13.0km s-min=3.0km az=117.0

DJA 14 04:56:31.4 0.2 4.2 S:2.13 E:2.1, h42km,3km, M4.7/37, mb4.8/37, mB5.4/7, MLV4.6/15, MW(mB)4.8/7

ISC 14 04:56:30.5 0.4 1.2S:0.04:131.61E,0.05,h29km,n157, r=151/143,mb4.7/54,MS4.1/10,1,C Banda Sea

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like FAKI Fak Fak, FAKI Fak Fak, FAKI Fak Fak, etc.

SJA 14 04:36:13.8 1.8, 29.65S:72.70W,h37km,ML3.9,MW3.9

IDC 14 04:36:16.4 1.2 3.0 15S:72.13W,h0km,mb3.9/4, mbtmP3.7/6,ML3.5/2,MS4.0/1, Error ellipse: s-maj=48.9km s-min=28.4km az=83.0

GUC 14 04:36:18.5 0.6 3.0 06S:72.13W,h40km,2km,ML3.9

ISC 14 04:36:17.8 2.0 3.0 10S:0.04:72.11W,0.07,h9km,11km, n33,r1925/40,mb3.9/3,DF off coast of central Chile

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like CO06 Fray Jorge, CO06 La Serena, CO05 Evora, etc.

ISN 14 04:45:54.0 0.8 34.24N:45.36E,h30km,14km,ML2.9

TEH 14 04:45:54.8 34.26N:45.53E,h10km,27km

ISC 14 04:45:55.1 1.0 34.26N:0.04:45.52E:0.04,h18km,n13, r=095/16, Iran-Iraq border region

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Kellerberrin, Padang Panjang, Mandailing Nat, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Barlow Dome, SNAAR, TORDI, etc.

RSNC 14 04:59:07.6:1.1, 4°N, 4°E, 8°W, 10°N, h0km, M3.7, mb5.4, m4.0, 9, ML3.0, Mw(mb)4.8, South of Panama

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like AZU, GRIC, FLFI, etc.

GCG 14 05:14:03.3:1.8, 14°06'N, 93°30'W, h38km, 620km, MD4.0, ML3.4

MEX 14 05:14:04.0:1.7, 14°17'N, 93°34'W, h11km, 46km, MD4.0

ISC 14 05:13:60.0:1.8, 14°16'N, 00°08:93:32W, 0.04, h20km, 5km, n17, i3131/30, 1C, Near coast of Chiapas

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like THIG, SMCA, PATR, etc.

IDC 14 05:51:14.7:2.2, 6.47S:129.23E, h0km, mb3.8/1, mbtmp.4.3, ML3.5/2, MS3.6/1, Error ellipse: s-maj=146.7km s-min=31.6km az=68.0, Banda Sea

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like WRA, ASAR, LEM, etc.

IDC 14 05:55:48.0:1.7, 20°43'S:67°87'E, h0km, mb3.9/9, mbtmp.3.9/9, MS3.8/1, Error ellipse: s-maj=56.4km s-min=25.6km az=42.0

NEIC 14 05:55:48.0:1.9, 20°54'S:0°04:68'E, 0.1, h10km, 1km, mb4.0/17, Error ellipse: s-maj=17.0km s-min=6.1km

ISC 14 05:55:48.0:1.7, 20°43'S:67°87'E, h0km, mb3.9/9, mbtmp.3.9/9, MS3.8/1, Error ellipse: s-maj=56.4km s-min=25.6km az=42.0

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like ROCAM, H08S1, H08S2, etc.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like BRTR, BRTR, MKAR, etc.

ISC 14 06:04:38.2:3.6, 54°29'N:87°34'E, h0km, mbtmp2.7/2, ML2.0/2, Error ellipse: s-maj=32.2km s-min=21.1km

ASRS 14 06:04:39.0:0.7, 54°21'N:87°06'E, h0km, M2.6, The earthquakes of Russia in 2019, Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like I46RU, ZALV, KURBB, etc.

MEX 14 06:09:45.9:0.6, 13°81'N:93°08'W, h18km, 68km, MD3.9

GCG 14 06:09:47.9:1.8, 14°04'N:92°98'W, h35km, 999km, MD4.1

ISC 14 06:09:44.0:3.7, 13.3N:0.2-93:1W:0.1, h37km, n10, i362/17, Off coast of Chiapas

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like RTAL, PATR, PAVE, etc.

WEL 14 06:12:36.5:0.8, 35°S:9°18'W, h1, h259km, 14km, M3.9/7, ML4.0/6, MLV3.9/7, Error ellipse: s-maj=20.0km s-min=8.9km az=114.4, confirmed

NOU 14 06:12:57.1:36:35S:179°57'E, h189km, MLV4.1/8, Off E. Coast of N. Island, NZ

ISC 14 06:12:37.2:1.8, 34°S:0°1:179°W:0.2, h250km, n33, i367/37, South of Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like WEL, NOU, ISC, MXZ, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MZK, WMGZ, PKGZ, HAZ, etc.

IDC 14 06:16:14.7-8.9, 13.64N-92.68W, h0km, mb3.6/4, mbtmp3.5, ML3.4/1, MS3.3/1, Error ellipse: s-maj=195.4km s-min=83.6km az=14.0 MEX 14 06:16:22.0-0.8, 14.21N-93.42W, h5km, 4.2km, MD4.3 GCG 14 06:16:22.5-2.1, 14.10N-93.28W, h36km, 5.1km, MD4.4, ML4.1 CATA 14 06:16:31.7-0.7, 14.14N-93.37W, h33km, 2.2km, ML4.0/17, ML4.0/17, Error ellipse: s-maj=17.3km s-min=7.9km az=84.6, confirmed ISC 14 06:16:20.5-1.7, 14.33N-0.06-93.31W, 0.03h, 6km, 10km, n71, c289/92, mb3.6/4, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like THIG, PATR, PCIG, PAVE, RTAL, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like F88, HUIG, FAME, SLOZ, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like TLIG, CRUZ, PPM, etc.

SSNC 14 06:20:16.9-2.2, 19.30N-78.36W, h1km, 38km, MD3.5, ML2.9 JSN 14 06:20:18.4-0.7, 19.41N-78.34W, h30km, 315km, MD4.6 OSPF 14 06:20:18.3-0.6, 19.27N-78.29W, h0km, 138km, ML2.9 ISC 14 06:20:16.4-2.4, 19.32N-0.05-78.27W, 0.1, h4km, 16km, n21, i#36/34, 6C-1D, Cuba region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like PILO, MTJD, LMGC, MCJ, etc.

IDC 14 06:32:42.1-3.8, 2.30N-128.17E, h234km, 33km, mb3.4/5, mbtmp4.0/5, Error ellipse: s-maj=129.4km s-min=14.2km az=66.0, Halmahera

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like WRA, ASAR, STKA, MKAR, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like DANN, DDI, DDI, DDI, etc.

ASRS 14 06:49:08.0-1.0, 53.82N-88.20E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021. NNC 14 06:49:11.0-4.4, 53.74N-88.23E, h0km, mb2.9, mpv2.5, Error ellipse: s-maj=31.5km s-min=20.2km az=95.0, Suspected Mining explosion. IDC 14 06:49:12.1-3.1, 53.79N-88.05E, h0km, mbtmp2.7/2, ML2.4/2, Error ellipse: s-maj=27.8km s-min=19.3km az=54.0

ISC 14 06:49:12.1-3.8, 53.93N-0.2-88.1E, 0.2, h0km, n7, c06/31/7, IC-20, Southwestern Siberia

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like I46RU, ZAAO, ZAAO, ZAAO, etc.

GCG 14 06:54:38.6-2.0, 14.31N-93.11W, h35km, 99km, MD3.9, ML2.7, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like STGB, CCIG, TGIG, etc.

IDC 14 06:54:55.2-0.4, 11.06S-118.50E, h0km, mb4.8/23, mbtmp4.8/25, ML5.1/2, MS4.0/44, Error ellipse: s-maj=20.4km s-min=10.8km az=78.0 MOS 14 06:54:55.0-1.0, 10.98S-118.58E, h10km, mb5.2/47, Error ellipse: s-maj=11.8km s-min=5.3km az=116.9 NEIC 14 06:54:57.0-1.5, 11.17S-0.07-118.46E, h10km, 1km, mb5.2/60, Mw5.1/22, Error ellipse: s-maj=13.0km s-min=7.9km az=220.0 DJA 14 06:54:56.7-0.1, 11.1S-118.5E, h10km, M5.1/68, Mw5.3/68, mb5.6/37, MLV5.6/21, Mw(mB)5.1/37, 0.4Wwmp4.8/7, Mw5.2/7

NEIC 14 06:54:57.11-3.8S-118.26E, h26km, Moment Tensor Solution: Duration: 2s1 Moment tensor: Scale 10^16Nm; M1=5.1; M2=5.96; M3=0.45; M4=2.37; M5=1.19; M6=1.95; Fault plane solution: M6:620000\*10^16 NPT:94.370000, 534.430000, -1.66.030000. NP2:246.050000, 558.890000, -1.105.560000. Principal axes: T 6.7683, Plg13.0000, Azm347.0000; N -0.3045, Plg13.0000, Azm254.0000; P -6.4638, Plg72.0000, Azm119.0000; NEIC 14 06:54:57.11-3.8S-118.46E, h26km GCMC 14 06:55:00.0-2.1, 11.24S-0.01-118.55E, 0.02, h14km, MW5.0/18, Moment Tensor Solution: s68, c91; s18, c183; Duration: 0 Moment tensor: Scale 10^16Nm; M1=4.17; M2=4.23; M3=0.11; M4=0.17; M5=1.47; M6=1.9; M7=0.17; M8=0.45; M9=0.25; Best double couple: M4 68400\*10^16 NPT:64.0000, 639.0000, -1.116.00000. NP2:276.00000, 555.00000, -1.70.00000. Principal axes: T 4.6160, Plg8.0000, Azm352.0000; N 0.1370, Plg16.0000, Azm85.0000; P -4.7510, Plg72.0000, Azm236.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function ISC 14 06:54:57.9-0.5, 11.23S-0.03-118.51E, 0.04, h19km, 1km,

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WBSI Waikabubak, Su, BASSI Baling Sumba, WSI Wanggapu, etc.

Table with columns: MORW Morawa, AS13 Alice Springs, AS31 Alice Springs, ASAR Alice Springs, etc. Includes station codes and names like MORW Morawa, AS13 Alice Springs, etc.

Table with columns: CNB Canberra Magne, CNB Canberra Magne, CNB Canberra Magne, etc. Includes station codes and names like CNB Canberra Magne, CNB Canberra Magne, etc.









ASAR Alice Springs 33.37 245 P P 07 16 10.0 -1.1
ASAR Vanda 65.80 181 P P 07 20 13.1 -2.3
CMAR Chiang Mai Arr 73.31 293 P 07 21 00.9 -1.6
QSPA South Pole Qui 78.24 180 P 07 21 29.9 +0.1
SONM Songo Array 79.83 323 P 07 21 38.2 -0.4
ILAR Eielson Array 83.88 18 P 07 22 00.1 +0.8
MAW Mawson 84.43 202 P 07 22 02.1 0.0
MKAR Makanchi Arr 94.72 317 P 07 22 51.9 +0.7
YKA Yellowknife Arr 95.16 27 P 07 22 52.5 -0.2
ARCES ARCES Array B 117.28 346 PKP 07 28 13.7 -0.1
FINES FINES Array B 122.80 339 PKP 07 28 24.6 0.0
ESDC Sonsec Array 151.01 345 PKPbc 07 29 22.7 +0.3

IDC 14 07:13:42.7,3.0,5.99S;147:57E,h95km,25km,mb3.8/4, mbtmp4.2/7,MS2.9/1,Error ellipse: s-maj=38.0km s-min=20.2km az=84.0

NEIC 14 07:13:43.6,1.7,6.03S;0:03:147:6E:0:1,h95km,8km, mbz=94.0, Error ellipse: s-maj=20.6km s-min=3.5km

ISC 14 07:13:43.9,0.7,6.03S;0:06:147:4E:0:1,h100km,n30, +1502/31,mb4.2/9,Eastern New Guinea region

Code Station Name Az AZ Phase ID Time Res
PMG Port Moresby 3.37 184 P Op ISC h m s ISC
PMG Port Moresby 3.37 184 P Pn 07 14 34.0 -0.6
MANU Manus Island 3.96 359 Pn Sn 07 15 32.3 +0.9
JAY Jayapura 7.55 297 Pn LR 07 19 25.5
COEN Coen 8.92 208 Pn Pn 07 15 49.1 -0.9
SAUI Sauii 16.12 252 Pn Pn 07 17 25.4 -0.7
WBO Warrunga Arr 18.63 222 I Amb I Amb 07 17 57.5

IDC 14 07:24:45.6,10.0,15.23S;165:79E,h0km,mb3.9/4, mbtmp3.9/5,ML3.8/1,Error ellipse: s-maj=179.8km s-min=34.6km az=57.0

NOU 14 07:24:47.2,15:07S;167:07E,h88km,MLv4.4/8,Vanuatu Islands
ISC 14 07:24:44.3,2.1,14.9S;0:2:166:5E:0:2,h36km,n9, +0576/9,mb3.9/4,1, Vanuatu Islands

Code Station Name Az AZ Phase ID Time Res
VLAKA Lakatoro 1.51 145 P Op ISC h m s ISC
LUES Luesslemba Tem 4.22 352 P Pn 07 25 53.8 +7.7
YATNC Mamie plateau, 7.16 177 P Pn 07 26 25.1 -1.4
DZM Mont Dzumac 7.17 181 Pn Pn 07 26 26.9 +0.2
OUENC Queen Island, N 7.52 178 P Pn 07 26 32.2 +0.8
STKA Stephens Creek 28.35 229 P Pn 07 30 35.0 0.0

ASRS 14 07:30:07.0,1.9,54:14N;86:42E,h0km,M2.6,The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 14 07:30:09.2,3.1,54:15N;86:50E,h0km,mbtmp3.0/2, ML2.8/2,Error ellipse: s-maj=24.7km s-min=15.1km az=55.0, Southwestern Siberia

Code Station Name Az AZ Phase ID Time Res
I46RU ZALESOVO INFRA 1.01 259 P Op ISC h m s ISC
ZALV Zalesovo Beam 1.01 259 P Pn 07 30 28.6 0.0
ZALV Kurchatov Arra 6.02 327 Pn Pn 07 31 39.9 +0.4
MKAR Makanchi Array 7.84 202 Pn Pn 07 32 05.6 +1.1

0.1nm,0.3s,baz=25,slow=14,SNR=3.1
0.2nm,0.4s

DJA 14 07:30:34.3,0.9,2°N;6°12'8E",h220km,11km,M4.0/11, mb4.0/3,MLV4.0/11
IDC 14 07:30:58.7,4.2,1:27N;127:16E,h519km,63km,mb2.8/4, mbtmp3.7/5,Error ellipse: s-maj=65.2km s-min=17.6km az=7.0

ISC 14 07:30:31.7,1.3,2.0N;0°1:128:0E:0:2,h200km,n10, +2529/10,mb3.6/4,Northern Molucca Sea

Code Station Name Az AZ Phase ID Time Res
TNTI Ternate 1.40 207 P Op ISC h m s ISC
GCSI Sangihe 2.95 304 P Pn 07 31 09.1 +4.6
SANI Saria 4.52 206 P Pn 07 31 23.0 +2.3
LANI Namlea 5.31 190 P Pn 07 31 52.1 +0.9

STR 14 07:30:43.5,0.3,43°N;2°x'x",h2km,MLv1.9/6,Error ellipse: s-maj=0.0km s-min=0.0km az=15.1, preliminary

MDD 14 07:30:44.1,0.3,42:39N;0:22E,h0km,ML2.3/1.5,Error ellipse: s-maj=3.3km s-min=1.8km az=14.0

LDG 14 07:30:44.0,0.1,42:35N;0:20E,h2km,Md2.4/1,Mi2.7/8, Error ellipse: s-maj=2.5km s-min=1.6km az=174.0

MRB 14 07:30:44.0,0.5,42:36N;0:26E,ML1.8/16,Error ellipse: s-maj=4.1km s-min=2.1km az=134.0

ISC 14 07:30:42.6,0.8,42.97N;0:02:22E:0:01,h14km,5km, n53,+082/99,Pyrenees

Code Station Name Az AZ Phase ID Time Res
LABF Labassere 0.13 307 P Op ISC h m s ISC
LAFB Labf 0.17 239 Pn Pn 07 30 48.3 -0.3
VIEF Viey 0.17 239 Pn Pn 07 30 47.0 +0.3

Code Station Name Az AZ Phase ID Time Res
PYLO Lourdes 0.23 304 Pn Pn 07 30 47.6 -0.1
PYLO Lourdes 0.23 304 Pn Pn 07 30 51.0 -0.2
ECHI Chisagues Biel 0.31 183 Pn Pn 07 30 49.5 -0.4

Code Station Name Az AZ Phase ID Time Res
CANF Canfranc 0.58 249 Pn Pn 07 31 00.1 -0.5
ATE Arette 0.68 280 Pn Pn 07 30 56.2 -0.1
SALF Salau 0.75 106 Pn Pn 07 30 57.5 +0.1

Code Station Name Az AZ Phase ID Time Res
ORDF Ordarp 0.88 286 Pn Pn 07 31 00.1 -0.5
ORDF Ordarp 0.88 286 Pn Pn 07 31 12.3 -0.8
CORG Organya 1.10 132 Pn Pn 07 31 03.7 -0.1

Code Station Name Az AZ Phase ID Time Res
ARBS La Rabassa 1.11 118 Pn Pn 07 31 04.1 0.0
ARBS La Rabassa 1.11 118 Pn Pn 07 31 18.4 +0.2
OSSF Ossee 1.12 285 Pn Pn 07 31 04.9 +0.7
OSSF Ossee 1.12 285 Pn Pn 07 31 19.9 +0.9

Code Station Name Az AZ Phase ID Time Res
LFF La Frestate 2.00 11 ePn Pn 07 31 18.4 -0.4
LFF La Frestate 2.00 11 ePn Pn 07 31 47.6 +0.5
ERTA Horta de San J 2.01 177 Pn Pn 07 31 18.5 -0.5

RJF Les Rejaudoux 2.51 21 ePn Pb 07 31 25.4 -2.1
RJF Les Rejaudoux 2.51 21 ePn Pb 07 31 32.0 +1.2
EMOS Mosqueruela 2.66 191 Pn Pb 07 31 27.9 -2.1

IDC 14 07:34:17.3,7.3,0.54:23N;87:21E,h0km,mbtmp2.9/2, ML2.6/2, Error ellipse: s-maj=25.5km s-min=16.5km az=64.0

ASRS 14 07:34:12.0,0.9,54:17N;87:08E,h0km,M2.8,The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Code Station Name Az AZ Phase ID Time Res
I46RU ZALESOVO INFRA 1.35 261 P Op ISC h m s ISC
ZALV Zalesovo Beam 1.35 261 Pn Pb 07 34 39.9 +1.7
ZALV Kurchatov Arra 6.32 239 Pn Pn 07 35 49.5 +3.1

IDC 14 07:36:39.6,4.0,36:48N;71:03E,h187km,34km,mb3.3/11, mbtmp4.0/17,Error ellipse: s-maj=29.8km s-min=19.0km az=29.0

NEIC 14 07:36:43.5,1.4,36:65N;0:03:71:0E:0:1,h216km,9km, mb4.2/13,Error ellipse: s-maj=12.9km s-min=3.1km az=75.0

NNC 14 07:36:47.2,2.6,37:03N;70:99E,h220km,27km,mb2.9, mbtmp3.6/8,Error ellipse: s-maj=24.2km s-min=15.5km az=9.0

ISC 14 07:36:41.1,1.0,6:36S;7N:0:05:71:0E:0:07,h200km,n69, +1573/78,mb4.0/15,4C-5D,Afghanistan-Tajikistan border region

Code Station Name Az AZ Phase ID Time Res
GAR Garm 2.50 346 Pn Pn 07 37 27.3 +2.2
KBL Kabul 2.61 220 Pn Pn 07 37 30.0 +3.5
SIMP Simpanj 2.66 322 Pn Pn 07 37 28.9 +2.2

Code Station Name Az AZ Phase ID Time Res
NRN Naryn 6.19 37 Pn Pn 07 38 11.8 +0.7
KK31 Karatay Array 6.54 356 Pn Pn 07 38 16.1 +0.8
KK31 Karatay Array 6.54 356 Pn Pn 07 38 17.1 +4.1

Code Station Name Az AZ Phase ID Time Res
BOOM Boomskeye usch 7.01 31 Pn Pn 07 38 23.2 +1.7
TKM2 Tokmak 2 7.24 27 Pn Pn 07 38 25.9 +1.4
TKM2 Tokmak 2 7.24 27 Pn Pn 07 39 45.1 -1.6

Code Station Name Az AZ Phase ID Time Res
KDJ Kajisay 7.29 39 Pn Pn 07 38 26.5 +1.2
TARG Taragay, Kyrgy 7.34 43 Pn Pn 07 38 28.1 +2.0
SMLA Simla 7.42 135 ePn Pn 07 38 29.9 +3.0

Code Station Name Az AZ Phase ID Time Res
ARCS ARCES Array B 41.10 338 P I Amb I Amb 07 44 05.8 +0.8
ARCS ARCES Array B 41.10 338 P I Amb I Amb 07 44 09.3
ARCS ARCES Array B 41.10 338 P I Amb I Amb 07 44 05.0 0.0

Code Station Name Az AZ Phase ID Time Res
ALCN Alcanar 2.43 175 S Pn 07 31 54.0 -1.7

Table with columns: HFS, Hagfors, 43.05 322 P, 07 44 21.0 +0.2, etc. Includes stations like NORARS Array S, NOARS Subura, NOARS Array B, etc.

SNET 14 07:40:23.9+1.0, 13.10N:89.53W, h56km, 10km, ML3.3
CGG 14 07:40:23.6+0.7, 13.14N:89.53W, h54km, 9km, MD3.9, ML3.4
CATA 14 07:40:23.7+0.4, 13.13N:88.9W, h31km, 3km, M3.6/36, ML3.6/36, Error ellipse: s-maj=5.8km s-min=3.6km az=36.2, confirmed

Main station list table with columns: Code, Station Name, Az, Az', Phase ID, Op, Time, Res, ISC. Lists numerous stations including LALI, BOQS, DAV, JOW, JMW, etc.

MATN Matagalpa 3.47 92 P Pn 07 41 15.3 -0.2
BOAB BOACO BROADBAN 7.9 99 P Pn 07 41 19.1 -0.6

BUI 14 07:50:52.3, 13.42N:145.64E, h65km, mB5.3/4, mb5.3/4, Ms4.8/85, Ms7.4/782
DJA 14 07:50:53.0, 0.6, 14.1N:5.14E, h67km, 5km, M5.5/59, mb5.8/59, mB6.0/41, MLV5.6/1, MW(mB)5.5/41, Mw5.5/112, Mw5.5/12
IDC 14 07:50:55.9, 0.8, 13.57N:145.32E, h60km, 6km, mb5.2/43, mbmp5.5/45, MS4/469, Error ellipse: s-maj=12.2km s-min=3.8km az=81.0

MOS 14 07:50:55.3, 0.9, 13.58N:145.18E, h67km, 6km, 5.7/80, MS4.8/9, Error ellipse: s-maj=7.3km s-min=4.0km az=112.2
GCMT 14 07:50:56.0, 0.1, 13.36N:0.01:145.47E:0.01, h49km, 1km, MW5.3/139, Moment Tensor Solution, s103.c173; s139.c248; Duration: 1s1 Moment tensor: Scale 1017 Nm; Mn:0.59; M2:0.18; M3:0.1; M4:0.77; M5:0.36; M6:0.02; M7:0.02; M8:0.02; Best double couple: Mb1.10300:1017, Mb1.158:0.0000; s24.00000; s3.0.00000; NP2:32:1.00000; 872.00000; 1.06.00000; Principal axes: T: 1.0590, Plg60.0000; Azm313.0000; P: -1.1480, Plg25.0000; Azm98.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

NEIC 14 07:50:56.1, 0.1, 13.54N:0.07:145.34E:0.08, h60km, 4km, mb5.7/148, Mw5.2/24 Error ellipse: s-maj=11.7km s-min=10.4km az=68.0
PMR 14 07:50:56.0, 13.55N:145.19E, h60km
NEIC 14 07:50:56.6, 13.54N:145.33E, h70km
NEIC 14 07:50:56.6, 13.44N:145.43E, h70km, Moment Tensor Solution: Duration: 2s1 Moment tensor: Scale 1019Nm; Mn:2.18; M2:3.73; M3:5.91; M4:2.78; M5:2.11; M6:4.75; Fault plane solution: Mw1.85000:1016 NP1: 0.127.71000; 841.62000; 1.15.73000; NP2:25.82000; 879.63000; 1.130.54000; Principal axes: T: 7.4919, Plg41.0000; Azm333.0000; P: 0.6683, Plg40.0000; Azm197.0000; P: -8.1602, Plg24.0000; Azm86.0000; ISC 14 07:50:56.2, 0.3, 13.53N:0.03:145.38E:0.04, h65km, 2km, h65km; pP-P, 1156, e1:182/1265, mb5.5/250, 47C-20D, Mariana Islands

Main station list table with columns: Code, Station Name, Az, Az', Phase ID, Op, Time, Res, ISC. Lists numerous stations including GUMO, JCJ, PATS, MANU, JAY, JMW, etc.

Main station list table with columns: SANI, Sanana, 24.69 233 P, 07 56 09.6 -1.8, etc. Lists numerous stations including KMSI, YULB, NACB, TWGBT, YHNB, Yeheng, JSD, SSSLB, etc.



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2019 JUN

14d 7h

Main data table containing station names (e.g., LZH, ARMA, CHTO), frequencies, and other technical details for each station. Includes a second column of station information on the right side (e.g., BILL, BILIBINO, RSD).

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like Sitkinak Island, Donlin, Holitna River, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like MDOCK Medeo, AAA Alma-Ata, AAA Alma-Ata, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like FID Port Fidalgo, G23K Bananza Creek, Denali Highway, etc.



Table with columns: BVAR, description, comp-Z, SNR, LR, LR, 08 33 38.5, and various status indicators (P, I, S, M, etc.). Rows include entries like K27K Chicken, LOGN Logan Glacier, BRVK Borovoye, etc.

Table with columns: TBI, Tubuai, 73.51 120 eS, S, 08 11 48.7 +1.1, and various status indicators. Rows include entries like TBI Tubuai, M31M Drury Creek, H31M Peel River, etc.

Table with columns: HATD, Hatta, Dubai, 83.76 294 P, P, 08 03 20.2 +1.2, and various status indicators. Rows include entries like HATD Hatta, Dubai, ASHO Ashiyah, ORV Orvillie, etc.

14d 7h

Table listing astronomical observations for 14 days and 7 hours. Includes columns for object name (e.g., OBNSK, VSR, VORD), coordinates (RA, Dec), magnitude, and other parameters like SNR and filter used.

2019 JUN

Table listing astronomical observations for the month of June 2019. Includes columns for object name (e.g., KIEV, ISCO, ANMO), coordinates (RA, Dec), magnitude, and other parameters like SNR and filter used.

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Table listing astronomical observations for the month of June 2019, continuing from the previous section. Includes columns for object name (e.g., PGAV, PCAB, ESCD), coordinates (RA, Dec), magnitude, and other parameters like SNR and filter used.

ADC 14 07:51:47.7-4.7: 6.96N-60.38E, h0km, mb3.8/8, mbmp3.8/8, MS3.8/9, Error ellipse: s-maj=106.3km s-min=33.3km az=147.0 NEIC 14 07:51:48.8-1.9: 6.4N-0.2-59:86E:0.08, h10km, 1km, mb=199.0 Error ellipse: s-maj=27.0km s-min=9.2km mb=199.0 ISC 14 07:51:50.5-0.9: 6.6N-0.1-60:0E:0.1, h23km, n40, i=180/28, mb4.2/16, MS3.7/9, Carlsberg Ridge

Table with columns for station name, time, phase, and other details. Includes stations like Batken, Karatay Array, and various other arrays.

NEIC 14 07:54:22.2 1.9, 17.90S: 0.09: 178.10W: 0.08, h505km, 7km, mb4.9/100, Error ellipse: s-maj=14.7km s-min=8.0km az=139.0

BUI 14 07:54:22.0, 17.59S: 177.76W, h513km, mb4.9/8, mb4.9/8

IDC 14 07:54:22.9 0.0, 5.17: 88S: 178.20W, h508km, 5km, mb4.3/22, mb1mp5.2/26, Error ellipse: s-maj=9.6km s-min=8.1km az=160.0

NOU 14 07:54:22.9, 17.92S: 178.11W, h511km, mb5.3/89, Fiji Islands Region

BGR 14 07:54:25.6, 17.11S: 177.86W, h504km

GCMT 14 07:54:26.2 0.6, 18.04S: 0.06: 178.20W: 0.05, h528km, 3km, MW5.6/54, Moment Tensor Solution, s54,c59; Duration: 1.54 Moment tensor: Scale 1017Nm; Mn=0.68z; 12; Mw=0.34z; 18; Mw=0.92z; 20; Mw=1.04z; 18; Mw=2.60z; 14; Best double couple: M33:08300\*10^17; M11:278.00000; M22:00000; 1-17.00000; N1P2:23.00000; S1P3:00000; 1-113.00000; Principal axes: T 3.0440, Plg34.0000; Azm133.0000; N 0.0770, Plg23.0000; Azm26.0000; P -3.1210, Plg47.0000; Azm269.0000; nst1 refers to body waves, cutoff=40s. Triangular moment-rate function

ISC 14 07:54:27.0 0.3, 17.89S: 0.05: 178.11W: 0.04, h513km, 3km, h514km: pp-P, n789, alpha 13/818, mb4.9/101, 25C-32D, Fiji Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various stations like Tubou, Lakemba, Taveuni, etc.

Table with columns: URZ, Urewera, Ureua, etc. Lists stations with their respective times and phases.

Table with columns: DRS, Darwin Rock St, Forrest, etc. Lists stations with their respective times and phases.

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like OHAK Old Harbor, R18K Karluk, AFDM Forest Hills D, etc.

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like CBB Campbell River, PWL Port Wells, SUA Susitna One, etc.

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like RND Reindeer, O29M Mount Kennedy, DHY Denali Highway, etc.

Table with columns: ID, Name, Date, Time, Status, and other details. Rows include G23K Bananza Creek, M31M Drury Creek, DAWY Dawson, PDAR Pinedale Array, PDAR Pinedale Array, C18K Utukok River, F22K John River, FARO Faro, Yukon, K29M Barlow Dome, WTLY Watson Lake, Y, COLD Coldfoot, D19K Kuna River, E20K Nigu River, G24K Hadwenzic Riv, HHC Hu-ho-hao-te, HHC, MAYO Mayo, Yukon, G25K Bearman Lake, D20K Etlivuk River, C19K Lookout Ridge, B18K Kokolik River, TOAD Toad River Com, E21K Killik River, LIRD Lard River Hi, E22K Anaktuvuk Pass, I24M Miner Creek, F28K Squaw Lake, KMI Kunming, COYC Coyhaique, E23K Chandalar, E23K Chandalar, J30M Hart River, H27K Steamboat Moun, MMPY Sheldon Lake, I29M Ogilvie Camp, G26K Porcupine Rive, E24K Your Creek, C21K Knifeflade Rid, BTO Baotou, D22K Ayikyak River, D22K, D22K Ayikyak River, D22K Ayikyak River, D22K Ayikyak River, G25K Arctic Village, B21K Ipkikuk River, F26K Sheenjek River, B20K Meade River, H29M Whitestone, E25K Arctic Village, KOTAN Kotanelee Air, CMAR Chiang Mai Arr, CMAR, SYO Syowa Base, CHTO Chiang Mai, D24K Happy Valley, PZH PanZhiHua, PZH, EPYK Eagle Plains, G29M Pine Creek, C23K Itkillik River, C23K Itkillik River, C23K Itkillik River, B22K Teshepkuk Lake, H31M Peel River, F28M Old Crow, C24K Franklin Bluff, E27K Coleen River, D25K Kavik River, APMT Aspermont, A22K Sinclair Lake, G30M Taoh Zraii Nji, G30M Taoh Zraii Nji, TROLL Troil, Antarti, G31M Satah River, G31M

Table with columns: ID, Name, Date, Time, Status, and other details. Rows include G31M Satah River, SNAA Sanae, SNAA Sanae, SNAA Sanae, SNAA Sanae, SNAA Sanae, C27K Jago River, E28M Balagee River, C26K Camden Bay, F30M Barrie River, VNA3 Neumayer Olymp, E29M Blow River, D27M Malcolm River, F31M Tsightchic, LZH Lanzhou, PLCA Paso Flores, RSSD Black Hills, D28M Stokes Point, VNA1 Neumayer-Stat, INK Inuvik, R32A Long Quarter, SONM Songino Arr, YKA Yellowknife Ar, YKA, C36M Paulatuk, A36M Sachs Harbour, LPAZ La Paz, ZALV Zalesovo Beam, MKAR Makanchi Arr, MKAR, KURBB Kurchatov Arr, KURBB, BVAR Borovoye Arr, SPITS Spitsbergen Arr, BDFB Brasilia, ARTI, ARCES ARCESS Array B, KIRV Kirov, BOSA Boshof, LBTA Lobatse, FINES FINESS Array B, NB2 Christian River, NB2 NORARS Subarray, NB2 NORARS Array B, HFS Hagfors, HFS, MNK Minsk, MNK, MNK, MNK, MNK, MNK, MNK, MNK, AKASG Malin Array B, AKASG, AKASG, EKA Eskdalemuir Arr, BSEB Bad Segeberg, KWP Kalwarja Pacla, WME Myrdd Eilian, RUE Ruedersdorf, VASR Vaslui, WLF1 Llynfaes, LBWR Ladybower, YLJ Ylanberis, OJC Ojcow, TLCR BURAR Bucovina Array, GHRH, LLW Lanuwychlyn, FOEL Foel Wyfla, FLTG Flechtingen, NRDL Niedersach Rie, STHS Stebnicka Huta, TESR Tescani, KOLS Kolonkie sedl, IWEX Carrickbyrne, BRTR Keskin Arr, BRTR, KIRS Kireshir-Merke, CFR Caraleu, ONER Baraj Valiz, ASSE Asse, Remlinge, TPRG Topolog, KSP Ksiaz, NIE Niedzica, HLMI Long Mynd

Table with columns: ID, Name, Date, Time, Status, and other details. Rows include VRI Vriocina, IBBOR Ibboburen, PBLOR Plostina, TIFR Tigrosur, TIFR Tigrosur, OSTC Ostas, ANTO Ankara, CHVC Chvachek, CLL Colim, CLL Colim, ARCR ARCALIA, HARR Harva, TURR Turia, UPC Upec, STEB Steborice, OZUR Rosebush, PDB Dobruska-Polom, DRG Berggiesshubel, BRG Berggiesshubel, BRG, LANS Liptovska Anna, KRCL Kraliky, MCH1 Michaelchurch, MORC Moravy Berou, MORC Moravy Berou, GTTG Gottingen, NEUB Neuenburg, DOPR Dopraska Ves, PVCC Panska Ves, MONM Monmouth, ISR Istrita, MLR Muntele Rosu, MLR Muntele Rosu, MAUC Maruska, BUGC Bochum-Univer, KASTN Kahler Stein, MARR Marisel-Culj, MMAL Mount Meron Ar, MMAL, PRU Pruha, MOX Moxa, GOPC GO Pecny, Ondr, VOIR VOIR, DRGR, TANN Tannenbergestha, VRAC Vranov, VRAC, VRAC Vranov, YBHS Yyhne, UBBA Unterbreizbach, JAVC Velka Javorina, KRUC Kruc, MANZ Manzenberg, ZVC Zvek, HMNX Herstomceux, UCC Uccle, MODS Modra-Piesok, ROTZ Rotz, MEM Membach, BTNL Ternell, BSTI Sant Tilman, TNS Tausnus Mts, GRF Grafenberg Arr, KHC Kasperske Hory, BCLA Clavier, BMS Breda, SERR Surduc, WET Wetzell, BMR Maredous, GEC2 GERESS Array B, GERE GERESS Array B, DOU Dourbes, CONA Conrad Observa, RONA Rosalia, Austr, HERR Hercule, WLF Walferdange, WLF Walferdange, DIES Balcesir-Ban, BJB Bies, MOA Mollin, MORH Mrgy, Hungar, JSA Saint Aubin, ARSA Arzob, BIOA Bad Ischl, Fur Furstenfeldbrunn, RJOB Jochberg, FRGS Fruska Gora, BFBG Bismarck-Ca, WATA Walderalm, EZN Ezine, OBKA Obir, WTBA Wattenberg, MOTA Moosalm, MYKA Terra Mystica, SQTQ Sankt Quirin, ABTA Abfallersbach, CRES Cresnjevec Ost, DAVA Damuels, FETA Feichten, CRNS Crni Vrh, A05A Miravojica, HAPS Han Pijesak, BOJS Vojsko, VOJS Vojsko, BOJL Bojanci, BLV Banja Luka, CECY Cernicka







NOU 14 09:46:19.0,38:16S:178:70E,h10km,MLv3.9/11, Off E. Coast of N. Island, N.Z.
WEL 14 09:46:23.0,0.7,38 N,3:17 8E, h11km,4km,M3.6/12,
M-L4.0/12,MLV3.6/12,Error ellipse: s-maj=4.6km
s-min=3.4km az=111.4,confirmed
ISC 14 09:46:20.1±1.8,38:12S:0.03:178:52E,0.07,h4km,1.2km,
n56,e0.69/64,Off east coast of North Island

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists various stations like Puz, TBAS, WMGZ, TWIGZ, PKGZ, etc.

CATAC 14 09:47:02.3±0.8,11N:4x87W±,h13km,5km,M2.6/12,
MLV2.6/12,Error ellipse: s-maj=8.5km s-min=7.7km
az=67,confirmed,Near coast of Nicaragua

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like NADN, NANN, NANN, etc.

SNET 14 09:48:57.4±1.3,14:59N:89:11W,h11km,15km,ML2.4
CATAC 14 09:48:57.8±0.4,15N:2x89W, h3km,1km,ML2.7/24,
MLV2.7/24,Error ellipse: s-maj=5.4km s-min=2.8km
az=24.3,confirmed
GCG 14 09:48:58.8±0.5,14:47N:89:20W,h0km,3km,MD3.4,
ML2.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like ESQI, MTO3, LLGN, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like JAYA, JAYA, JUYA, etc.

ASRS 14 09:50:0.0,0.9,54:05N:86:48E,h0km,M2.6, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p
+ CD-ROM, 2021.

ISC 14 09:50:52.6±2.8,54:07N:86:50E,h0km,mbtmp2.9/2,
ML2.5/2,Error ellipse: s-maj=22.0km s-min=13.3km
az=56.0

NNC 14 09:50:49.2±3.4,54:02N:86:75E,h0km,mb2.3,mpv2.2,
4D,Error ellipse: s-maj=21.0km s-min=16.5km az=70.0,
Suspected Mining explosion,,Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like H46RU, ZAAO, ZAAO, etc.

ISC 14 09:51:28.7±1.1,9:69N:58:05E,h0km,mb3.6/6,
mbtmp3.6/6,MS3.5/2,Error ellipse: s-maj=46.1km
s-min=25.5km az=29.0,Carlsberg Ridge

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like PALK, PALK, OPO, etc.

CMAR Chiang Mai Arr 40.53 73 LR
MKAR Makanchi Array 42.34 25 P
MKAR Makanchi Array 42.34 25 P

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like BVAR, LBTB, AKASE, etc.

FINES FINESS Array B 56.73 342 LR
NOA NORPAR Array B 61.69 336 LR
ESDC Sonseca Array 62.33 10 P

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like USRK, KLR, MJAR, etc.

ASRS 14 09:59:14.0±0.8,54:14N:87:20E,h0km,M2.3, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214
p + CD-ROM, 2021.,Southwestern Siberia

ASRS 14 09:59:21.0±1.3,53:51N:87:67E,h0km,M2.7, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214
p + CD-ROM, 2021.,Southwestern Siberia

STR 14 10:02:35.0±0.4,45N:3x±,h0km,MLV1.9/8, Error
ellipse: s-maj=0.0km s-min=0.0km az=169.5,
preliminary,France

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like SSB, COLF, GRN, etc.

MLV3.6/9, Error ellipse: s-maj=9.2km s-min=6.1km
az=96.5,confirmed,Off west coast of South Island

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like PYZ, PYZ, Deep Cove, etc.

NOU 14 10:26:31.1, 15:35S:167:68E,h141km,MLV4.7/12,
Vanuatu Islands
ISC 14 10:26:32.5±5.1, 15:48S:167:65E,h149km,38km,mb3.8/6,
mbtmp4.3/7,Error ellipse: s-maj=39.0km s-min=23.5km
az=43.0

ISC 14 10:26:32.5±1.3, 15:55S:167:67E,0.2,h150km,n14,
e0.73/17,mb4.1/6, Vanuatu Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like VLAKA, VLAKA, YATNC, etc.

NEIC 14 10:16:19.9±1.1, 17:8S:0:1x178:1W,0.2,h52km,12km,
mb4.1/18,Error ellipse: s-maj=23.9km s-min=15.7km
az=71.0

ISC 14 10:34:18.4±2.6, 17:90S:178:44W,h526km,20km,mb3.5/4,
mbtmp4.4/5,Error ellipse: s-maj=51.7km s-min=32.0km
az=22.0

ISC 14 10:34:19.1±1.1, 17:7S:0:2x178:4W,0.2,h550km,n25,
e0.1915/27,mb4.0/14, Fiji Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists stations like MSVF, MSVF, EIDS, etc.

BTRH Keskin Array B 144.67 315 PKP PKIKP 10 52 55.5 -2.2 comp=Z,0.3nm,0.5s,baz=80,slow=2.3,SNR=2.5

NEIC 14 10:36:14.4,0.9,19.66N,0.07,145.45E,0.2,h122km,8km, mb4,4/41, Error ellipse: s-maj=22.3km s-min=10.4km

az=82.0, IDC 14 10:36:14.5,2.6,19.68N,145.45E,h165km,26km, mb3.5/15,mbtmp,9/16, Error ellipse: s-maj=22.3km s-min=12.5km az=73.0

ISC 14 10:36:13.2,0.5,19.70N,0.06,145.35E,0.1,h147km,n74, o113/69,mb4,2/31,Mariana Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists various seismic stations and their recorded events.

NVAR Mina Array Bae 82.81 52 P P 10 48 22.6 +1.1 NVAR Mina Array Bae 82.81 52 P P 10 48 21.2 -0.3

FINES FINES Array B 85.83 335 P P 10 48 35.1 -0.8 comp=Z,0.8nm,0.3s,baz=66,slow=5.6,SNR=7.9

PDAR Pinedale Array 87.38 45 P P 10 48 43.1 -1.1 comp=Z,0.3nm,0.5s,baz=279,slow=4.2,SNR=2.6

LPAZ La Paz 148.04 89 PKPbc PKPdf 10 55 40.2 +0.5 comp=Z,1.0nm,0.6s,baz=273,slow=3.0,SNR=5.2

JMA 14 11:05:16.8,1.3,46.16N,6.15,152.2E,1.0,h30km,MV4.7/13, KURILE ISLANDS REGION

SKHL 14 11:05:19.7,0.5,46.00N,151.50E,h115km,7km,mb5.1/6, mb15.9/5

MOS 14 11:05:20.7,1.5,46.33N,151.17E,h110km,mb3.9/2, Error ellipse: s-maj=13.3km s-min=6.6km az=138.8

IDC 14 11:05:24.1,2.6,46.49N,151.16E,h126km,22km,mb3.3/5, mbtmp3.9/9, Error ellipse: s-maj=24.1km s-min=19.1km az=122.0

NEIC 14 11:05:24.2,1.6,46.5N,0.1,151.0E,0.2,h115km,9km, mb4,2/13, Error ellipse: s-maj=20.4km s-min=12.6km az=144.0

ISC 14 11:05:20.7,0.7,46.16N,0.08,151.31E,0.08,h100km,n83, o164/94,mb4,0/12,1C-1D,Kuril Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists various seismic stations and their recorded events.

JANG Marumori 11.39 227 Pn Pn 11 09 02.5 -9.4

JMM KLR Kul'dur 13.52 290 Pn Pn 11 08 26.8 -1.4

USA08 USSuriysk Arra 13.77 269 Pn Pn 11 08 32.4 +0.9

USA08 USSuriysk Arra 13.77 269 Pn Pn 11 08 32.4 +0.9

USRK USSuriysk Ar. 13.77 269 Pn Pn 11 08 30.8 -0.7

USRK USSuriysk Ar. 13.77 269 Pn Pn 11 08 32.1 +0.6

USRK USSuriysk Ar. 13.77 269 Pn Pn 11 08 32.1 +0.6

USRK USSuriysk Ar. 13.77 269 Pn Pn 11 08 32.1 +0.6

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USRK USSuriysk Ar. 13.77 269 Pn Pn 11 08 32.1 +0.6

HEL 14 11:18:14.4,0.2,64.69N,30.72E,h0km,ML2.0,Suspected explosion

IDC 14 11:18:16.1,2.6,64.68N,30.48E,h0km,mbtmp2.9/3, ML1.9/3, Error ellipse: s-maj=38.1km s-min=8.9km az=100.0

UPP 14 11:18:16.5,2.4,64.50N,30.65E,h0km,ML1.7

KOLA 14 11:18:17.8,64.68N,30.79E,h0km,ML2.1, Error ellipse: s-maj=24.9km s-min=14.0km az=170.0, Kostomuksha, Karelia

MOS 14 11:18:18.0,0.8,64.62N,0.04,30.7E,0.4,h0km,M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

ISC 14 11:18:14.6,0.9,64.76N,0.03,30.80E,0.04,h0km,n52, o196/72,Finland-Karelia border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists various seismic stations and their recorded events.

14d 11h

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like OBFS Ulkokalla, KALU Kalix, KAF Kangasniemi, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like ERTU Ertjaerv, BURU Burvik, ODEU Stansfors, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like ARCES ARCESS Array B, VADS Vado, FAUS Fauske, etc.

NOU 14 11:20:01.8, 18:82'S:169:00'E, h104km, mb5.1/44, Vanuatu Islands
BUJ 14 11:20:02.0, 18:80'S:168:90'E, h116km, mB5.2/2, mb4.9/25
IDC 14 11:20:02.4, 0.6, 18:88'S:168:83'E, h108km, 5km, mb4.4/21, mbmp4.8/23, MS3.2/7, Error ellipse: s-maj=13.1km s-min=9.1km, az=113.0

NEIC 14 11:20:03.5, 1.6, 18:89'S:0:09:168:89'E, h115km, 3km, mb4.8/81, Error ellipse: s-maj=13.5km s-min=11.2km az=155.0

ISC 14 11:20:02.7, 0.4, 18:82'S:0:04:168:90'E, h114km, 3km, h114km, 3km, P, n241, s101/227, mb4.8/66, 12C-14D, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, and other technical details. Includes entries like INH Isangell, MARNC Mare, Loyalty, VLAKA Lakatoro, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, and other technical details. Includes entries like ALEG Aligege, SAVO Savo Central, EIDS Eidsvold, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, and other technical details. Includes entries like THZ Tophouse, MITSU Mount Surprise, CNB Canberra, etc.

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Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like PPT2 comp=Z,145nm,23.5s, FITZ Fitzroy Crossi, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like NWA0 Narrogin (SRO), MORW Morawa, KAFI Kapang, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like KSM Kuching, KSM Concordia, Ant, MJAR Matsushiro Arr, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like MAJO Matsushiro, MAJO Matsushiro, MJBS Matsu-Tunnel, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like JNU Nakatsue, YHNB Yehngang, ASAJ Asahikawa, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like USKR Ussuriysk Arr, GSPA South Pole Qui, GSPA South Pole Qui, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like DL2 Dalian, BNX BinXian, SLVN Son La, etc.

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Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like AFDM Forest Hills D, CMB Columbia Cole, PNTR Pine Nut, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like RND Reindeer, LHV Little Huntoon, PAHR Pat Rang, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like NVAR Mina Array Bea, NVAR Mina Array Bea, NVAR Mina Array Bea, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like TROLL Troll, Antarti, PINE Pine Mountain, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like SNAA Sanae, SNAA Sanae, SNAA Sanae, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like GNW Green Mountain, IL31 Green Mountain, ILAR Eielson Arr, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like SKAG Skagway, SKAG Skagway, SKAG Skagway, etc.





Table with columns: Station Name, Time, Res, and various codes. Includes stations like BAUV, 4141, HKT, etc.

Table with columns: Station Name, Time, Res, and various codes. Includes stations like BINY, Binghamton, Radium Mtn., etc.

Table with columns: Station Name, Time, Res, and various codes. Includes stations like Kirovsk, Yuxpor, HEL 14:12:07:29.8...

KOLA 14:12:07:29.5, 67.65N, 33.78E, h0km, ML 1.5, Error ellipse: s-maj=3.0km s-min=1.4km az=130.0, Khibiny, mines



Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like White River Ci, Casper, Castle Valley, Black Pine Rid, etc.

SJA 14 12:31:19.0:0.9,30.93Sx71.62W,h32km,2km,ML3.7, MW3.8
GUC 14 12:31:22.9:0.5,31.01Sx71.32W,h65km,2km,ML3.6
ISC 14 12:31:21.0:1.4,31.00Sx71.40W,0.03,h13km,10km, n52, c2509/84, 1C, Near coast of central Chile

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Combarbal, Fray Jorge, El Pedregal, Juntas del Tor, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Farellones, San Juan, Cerro Villicun, Ro Olivares, etc.

IDC 14 12:33:47.7:3.1,41.74N:143.27E,h0km,mb4.0/11, mbmp4.0/12,ML4.3/1,MS2.7/3, Error ellipse: s-maj=68.1km s-min=29.6km az=163.0
MOS 14 12:33:57.8:0.7,42.20N:143.01E,h64km,mb4.1/3, Error ellipse: s-maj=14.1km s-min=9.6km az=69.4
NEIC 14 12:33:57.6:1.1,42.18N:143.06E,0.1,h68km,6km, mb4.2/10, Error ellipse: s-maj=15.7km s-min=9.3km az=107.0

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Tokachihiro, Erimo, Urakawa-nobuka, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like Yuzh-Kuril'sk, Shikotan, Kuri'l'sk, etc.

IPEC 14 12:34:11.3:0.1,47.74N:16.11E,h8km,ML2.4/6, Error ellipse: s-maj=0.5km s-min=0.4km az=121.0
PRU 14 12:34:11.3:47.79N:16.10E,h10km
VIE 14 12:34:11.2:0.1,47.75N:16.11E,h9km,1km,mb2.0/9, ml2.5/9, Error ellipse: s-maj=1.1km s-min=1.0km az=115.0
4 km NE of Neunkirchen
ISC 14 12:34:11.1:0.9,47.77N:0.03:16.12E:0.03,h11km,7km, n21, c093/34, Austria



Table with columns: PDG, PAIG, BUM, BUDA, BOSS, BARS, BARS, BARS, LKR, CEME, KOME, KOME, DRO, HCY, HCY, SEL, NOCI, VTS, VTS, SLES, BRY, BRY, GOCs, ZAPS, IVAS, BOVS, GRUS, ZAGS, BBLs, DIVS, TRUJ, KUBS

NEIC 14 13:05:29.1+1.2, 35.270N, 0.010:97.75W, 0.01, h5km, 1km, ML1.6/4, ML2.0/26, Error ellipse: s-maj=2.3km s-min=1.3km az=144.0

NEIC 14 13:05:29.8+1.8, 35.245N, 0.010:97.749W, 0.008, h4km, 1km, Error ellipse: s-maj=1.5km s-min=0.9km az=163.0, Oklahoma

Table with columns: FNO, X34A, X34A, WMOK, OK02, CROK, OK051, OK038, GC02, MIAR

GCG 14 13:29:11.4+1.5, 16.14N, 93.17W, h177km, 14km, MD4.3, ML3.9

MEX 14 13:29:12.0+0.8, 16.17N, 93.09W, h192km, 9km, MD4.3

ISC 14 13:29:10.3+1.2, 16.21N, 0.005:93.01W, 0.06, h190km, 9km, n54, c304/96, Chiapas

Table with columns: Code, Station Name, Az, Phase ID, Time, Res

Table with columns: MEIG, MEIG, MEIG, AOVN, CAIG, CAIG, DEIG, DEIG, ARIG, ARIG, ZHIG, ZHIG, MOIG, MOIG, MNGA, MNGA, INCO, INCO, SOMAC, SOMAC, SOMAC, SOMAC, CEGR, CEGR, CIHU

DJA 14 13:31:21.1+0.4, 8.54S, 140.70E, h37km, 9km, M4.2/13, mb4.5/2, MLV4.0/13, Jawa

Table with columns: Code, Station Name, Az, Phase ID, Time, Res

SKHL 14 13:37:11.2+0.1, 44.20N, 145.30E, h149km, 1km, mb4.1/2, msha4.6/2

JMA 14 13:37:22.0+0.3, 44.14N, 145.14E, h143km, 1km, MV2.6/28, NEAR KUNASHIRI ISLAND

ISC 14 13:37:13.4+2.7, 44.03N, 0.009:145.44E, 0.06, h139km, 17km, n16, c0556/25, Hokkaido region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res

TIR 14 13:57:16.6, 40.45N, 20.72E, h6km, 14km, Md2.5/3, M12.1/2, IC, Greece-Albania border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res

VIE 14 13:57:23.6+0.2, 46.39N, 12.98E, h7km, 1km, mb3.3/21, m4.1/20, Error ellipse: s-maj=1.7km s-min=0.9km az=12.0

NAO 14 13:57:23.0+0.0, 46.40N, 13.00E, h5km, mb3.8

ROM 14 13:57:23.0+0.0, 46.398N, 0.002:12.997E, 0.003, h8km, ML3.9/270, Mw3.7, Error ellipse: s-maj=0.2km s-min=0.0km az=216.0, Moment Tensor Solution.

Moment tensor: Scale 10^14Nm; Mw:3.70; Mww:3.49; Mww-0.22; Mww-0.42; Mww-0.48; Mww-0.25; Fault plane solution: M3.66361x10^14 NPa; N1: 340.0000; N2: 849.0000; N3: 1.86.0000; NP2: 265.0000; N4: 0.0000; N5: 194.0000; LDG 14 13:57:23.7+0.2, 46.33N, 13.01E, h5km, M13.8/22, Error ellipse: s-maj=4.0km s-min=3.6km az=178.0

IDC 14 13:57:24.3+1.2, 46.37N, 13.27E, h0km, mb3.4/2, mbtmp3.6/12, ML3.3/9, MS2.9/11, Error ellipse: s-maj=18.6km s-min=13.8km az=120.0

RHSSO 14 13:57:24.9+0.6, 46.43N, 13.01E, h5km, 2km, ML4.1/12, MED\_RC 14 13:57:24.0+0.4, 46.40N, 13.00E, h10km, MW3.9/18, Moment Tensor Solution, Mantle waves: s18, c21; Duration: 190; Moment tensor: Scale 10^15Nm; Mw:0.91; Mww:0.73; Mww-0.05; Mww-0.18; Mww-0.04; N1: 14; N2: 0.34; N3: 20; NP1: 86.0000; NP2: 236.0000; NP3: 86.0000; NP4: 0.0000; NP5: 0.0000; NP6: 0.0000; NP7: 0.0000; NP8: 0.0000; NP9: 0.0000; NP10: 0.0000; NP11: 0.0000; NP12: 0.0000; NP13: 0.0000; NP14: 0.0000; NP15: 0.0000; NP16: 0.0000; NP17: 0.0000; NP18: 0.0000; NP19: 0.0000; NP20: 0.0000; NP21: 0.0000; NP22: 0.0000; NP23: 0.0000; NP24: 0.0000; NP25: 0.0000; NP26: 0.0000; NP27: 0.0000; NP28: 0.0000; NP29: 0.0000; NP30: 0.0000; NP31: 0.0000; NP32: 0.0000; NP33: 0.0000; NP34: 0.0000; NP35: 0.0000; NP36: 0.0000; NP37: 0.0000; NP38: 0.0000; NP39: 0.0000; NP40: 0.0000; NP41: 0.0000; NP42: 0.0000; NP43: 0.0000; NP44: 0.0000; NP45: 0.0000; NP46: 0.0000; NP47: 0.0000; NP48: 0.0000; NP49: 0.0000; NP50: 0.0000; NP51: 0.0000; NP52: 0.0000; NP53: 0.0000; NP54: 0.0000; NP55: 0.0000; NP56: 0.0000; NP57: 0.0000; NP58: 0.0000; NP59: 0.0000; NP60: 0.0000; NP61: 0.0000; NP62: 0.0000; NP63: 0.0000; NP64: 0.0000; NP65: 0.0000; NP66: 0.0000; NP67: 0.0000; NP68: 0.0000; NP69: 0.0000; NP70: 0.0000; NP71: 0.0000; NP72: 0.0000; NP73: 0.0000; NP74: 0.0000; NP75: 0.0000; NP76: 0.0000; NP77: 0.0000; NP78: 0.0000; NP79: 0.0000; NP80: 0.0000; NP81: 0.0000; NP82: 0.0000; NP83: 0.0000; NP84: 0.0000; NP85: 0.0000; NP86: 0.0000; NP87: 0.0000; NP88: 0.0000; NP89: 0.0000; NP90: 0.0000; NP91: 0.0000; NP92: 0.0000; NP93: 0.0000; NP94: 0.0000; NP95: 0.0000; NP96: 0.0000; NP97: 0.0000; NP98: 0.0000; NP99: 0.0000; NP100: 0.0000

Principal axes: T: 1.0000, Plg74.0000, Azm88.0000; N: -0.2000, Plg15.0000, Azm249.0000; P: -0.8000, Plg5.0000, Azm340.0000; nsta1 refers to body waves. nsta2 refers to surface waves, cutoff=30s.

STR 14 13:57:25.2+2.5, 46.46N, 13.27E, h10km, ML4.4/37, Error ellipse: s-maj=0.0km s-min=0.0km az=90.0, preliminary

BUG 14 13:57:25.0, 46.40N, 13.00E, h5km, MD4.4/11, ML4.5/16

PRU 14 13:57:26.0, 46.41N, 12.99E, h10km

BGR 14 13:57:27.0+0.3, 46.36N, 13.04E, h10km, ML4.1/25, Error ellipse: s-maj=1.1km s-min=5.6km az=5.0

ISC 14 13:57:24.2+0.7, 46.39N, 0.01:13.00E, 0.01, h5km, 4km, n37, c1864/481, MS2.9/3, 11C-53D, Austria

Table with columns: Code, Station Name, Az, Phase ID, Time, Res



Table with columns: NEUW, AIGLE, RSP, WALT, RICC, GBOS, MORSI, MORBI, BHB, WLS, MOX, MOXE, HOHE, ECH, CDF, MAUC, LEMB, PIAM, PIAP, HINF, CHMF, VYHS, ENR, ENR, BRG, BRG, CIEL, BRANT, BRANT, DPC, SAOF, VVLD, VVLD, STV, MORC, MORC, UPC, TURF, TURF, CHVC, MBDF, OSTO, SPIF, BOUC, BOUC, VOEL, ESCA, ISO, SURF, CABF, XAFF, HAPS, HAPS, PGF, PGF, PGF, HAU, HAU, JAUF, STON, STON, TNS, TNS, RIVEL, RIVEL, FRGS, FRGS, CLL, CLL, CLL, PSZ, PSZ, TEKS, TEKS, ENAX, OGMV, FOUR, ABH, CALF, ETRF, OGSF, LANS, BLSL, BLSL, GREN, ORIF, ORIF, ORIF, RUDO, RUDO, RUDO, TREB, TREB, TRIF, MANO, MANO, MAGF, MAGF, KECS, KECS, LMR, LMR, NEUF, NEUF, WLF, WLF, WLF, WLF, KASTN, KASTN, SFTF, SFTF, ARTF, ARTF, RUSG, RUSG, PDG, PDG, SSB, SSB, VVIF, VVIF, BZS, BZS, DRNE, DRNE, MEM, MEM, MEM, MEM, BUG, BUG, STHS, STHS

Table with columns: SMF, SMF, LOR, LOR, MATE, MATE, BSTI, BSTI, RCLA, RCLA, SSF, SSF, SSF, SSF, BGES, BGES, AVF, AVF, AVF, AVF, DOU, DOU, BMRD, BMRD, BOVS, BOVS, KOLS, KOLS, HERR, HERR, IBBN, IBBN, LASF, LASF, GZR, GZR, BAIF, BAIF, BGAF, BGAF, HYF, HYF, TCF, TCF, TCF, TCF, CAF, CAF, AKASA, AKASA, MTLF, MTLF, MFF, MFF, KEST, KEST, AKASE, AKASE, EKA, EKA, HFS, HFS, DCCU, DCCU, ESDC, ESDC, NB2, NB2, NOA, NOA, NOA, NOA, FINES, FINES, FINES, FINES, ARCES, ARCES, ARTI, ARTI, DBIC, DBIC, MKAR, MKAR, ASAR, ASAR, KOLA, KOLA, HEL, HEL, ISC, ISC

Table with columns: TIR, ATH, Manual Solution by N.Liadopoulos, ISC 14 14:32:18.9, Code, Station Name, Delta A, AZ, Phase ID, Op, ISC, Time, Res, MEX 14 15:01:48.9, Code, Station Name, Delta A, AZ, Phase ID, Op, ISC, Time, Res, HEL 14 15:06:45.9, ISC 14 15:06:44.5, Code, Station Name, Delta A, AZ, Phase ID, Op, ISC, Time, Res

14d 15h

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include stations like Nurmijarvi, Metsahovi, FINESS Array S, etc.

DJA 14 15:13:43.0-1.1, '1S2-12'4E', h19km, Mb3.8/13, mB4.7/1, mB4.2/4, MLV3.6/13, Mw(MB)3.9/1, Southern Molucca Sea

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include stations like Cibinong, Luwuk, Sanana, etc.

ASRS 14 15:16:49.9-0.6, 49.98N-88.32E, h0km, mb3.7/16, mbmp3.9/24, ML3.8/8, MS3.2/15, Error ellipse: s-maj=10.5km s-min=7.9km az=172.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include stations like Chagan-Uzun, Aktash, Jazator, etc.

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include stations like KALT2, DJOS, ELT, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Rows include stations like OTUK, OTUK, BTLS, etc.





Table with columns: AVFE, Vale Fert, 4.14 102, eP, Pn, 15 28 58.5 +3.8, etc. Lists various stations and their parameters.

IDC 14 15:31:35.4:6.2, 21.57S~170.04E, h89km, 4gkm, mb3.6/3, mbtm3.8/3, MS3.4/13, Error ellipse: s-maj=140.4km, s-min=37.8km, az=159.0, Southeast of Loyalty Islands

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data for the IDC event.

IDC 14 15:33:04.9:0.8, 58.76S~25.10W, h0km, mb4.1/7, mbtm4.1/8, ML4.2/11, MS3.3/2, Error ellipse: s-maj=31.7km, s-min=23.0km, az=94.0, South Sandwich Islands region

IDC 14 15:33:07.6:0.8, 58.78S~01.25W, 0.2, h18km, n23, 0.649/16, mb4.0/6.4C, South Sandwich Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data for the IDC event.

PRE 14 15:44:09.9:1.1, 25.65S~28.78E, h0km, ML2.5, Suspected explosion

BGSI 14 15:44:09.7:1.4, 25.76S~28.92E, h0km, 54km, ML2.7

ISC 14 15:44:09.4:0.9, 25.68S~0.04:28.76E, 0.03, h0km, n21, 0.694/41, South Africa

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data for the IDC event.

Table with columns: LBTB, Lobatse, 2.93 282, eP, Pn, 15 44 57.7 +0.4, etc. Lists station data.

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

SDD 14 16:06:39.3:0.8, 17.69N:70.61W, h31km, 528km, MD3.1, ML2.5, MW2.8

OSPL 14 16:06:40.0:1.5, 18.01N:70.59W, h17km, 185km, ML2.1

ISC 14 16:06:38.8:1.6, 17.84N:0.09:70.59W, 0.06, h20km, 98km, n9, 0.099/18, 1C-D, Dominican Republic region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

BER 14 16:20:04.9:0.7, 75.23N~7.77E, h29km, 12km, Mw4.1, Confirmed Earthquake, Greenland Sea

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

NEIC 14 16:26:26.4:14.20N:93.19W, h16km

NEIC 14 16:26:26.9:2.5, 14.36N:0.05:93.16W, 0.05, h10km, 1km, mb5.1/51, Mw5.1/12, Mds.0/145(MEX), Error ellipse: s-maj=9.4km, s-min=7.5km, az=156.0

GCG 14 16:26:16.2:3.14, 11N:93.31W, h22km, 35km, MD4.8, ML5.4, MW4.7

NEIC 14 16:26:26.4:14.30N:93.19W, h16km, Moment Tensor Solution. Duration: 188 Moment tensor: Scale 10^16Nm; Mn3.78; Mm-0.84; Mm-0.84; Mm0.03; Mm0.96; Mr-0.21; Fault plane solution: Ms5.39000~1016 NP2: 2.99, 14000, 321.81000; 1.109.59000; NP2: 0.9, 817000, 869.51000; 1.82.36000; Principal axes: T 5.6733, Plg65.0000; Azm355.0000; N - 0.6315. Plg7.0000; Azm101.0000; P - 5.0418, Plg24.0000; Azm194.0000;

SNET 14 16:26:27.5:0.9, 14.21N:93.26W, h74km, 32km, ML5.5

GCMT 14 16:26:28.9:0.2, 14.37N:0.01:93.29W, 0.01, h13km, MW5.1/107, Moment Tensor Solution. s84, c116; s107, c163; Duration: 0 Moment tensor: Scale 10^16Nm; Mn3.93e-12; Mm-3.30e-09; Mm-0.63e-09; Mm2.53e-24; Mr-1.33e-06; Mr-3.56e-30; Best double couple: Ms5.61900~1016 NP1: 90000, 825.00000; Ms5.61900~1016 NP1: 90000, 825.00000; NP2: 1.135.00000; NP2: 1.135.00000; 870.00000; 1.105.00000; Principal axes: T 6.1610, Plg62.0000; Azm68.0000; N - 0.6770, Plg14.0000; Azm309.0000; P - 5.4770, Plg23.0000; Azm213.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

MOS 14 16:26:28.5:1.0, 14.55N:92.95W, h25km, mb5.2/39 Error ellipse: s-maj=10.6km, s-min=5.6km, az=98.6

CATAC 14 16:26:29.9:0.5, 14.1N:3.9W, h24km, 5km, M5.4/29, mb5.7/11, mb5.7/11, MLV5.5/9, Mw(mB)5.2/11, MwWmp4.5/1, MwWp4.9/1, Error ellipse: s-maj=6.6km

s-min=3.9km, az=36.7, Moment Tensor Solution. Moment tensor: Scale 10^16Nm; Mn3.33; Mm-0.31; Mm-0.04; Mr-1.74; Mm1.50; Mr-0.88; Fault plane solution: Ms4.14129~1016 NP1: 131.88848, 839.02878; Ms4.34528. NP2: 270.55308, 858.67296; 1.65, 42385. Principal axes: T 4.1460, Plg66.4831; Azm133.0746; N - 0.0093, Plg20.8100; Azm283.9283; P - 4.1366, Plg10.4665; Azm17.9544; Moment Tensor Solution. Moment tensor: Scale 10^16 Nm; Mn3.19; Mm-3.22; Mm0.03; Mr-1.21; Mm1.35; Mr-1.11; Fault plane solution: Ms3.84834~1016 NP1: 131.40519, 843.21993; Ms4.1244378. NP2: 268.14856, 855.61272; 1.62, 01298. Principal axes: T 3.8956, Plg66.1565; Azm122.9775; N - 0.0964, Plg22.8450; Azm284.8550; P - 3.7992, Plg6.6571; Azm17.6650; confirmed

MEX 14 16:26:31.5:0.7, 14.38N:93.19W, h16km, 16km, MD5.0

IDC 14 16:26:34.3:2.4, 14.49N:92.84W, h69km, 21km, mb4.4/34, mbtm4.7/37, MS4.4/59, Error ellipse: s-maj=16.8km, s-min=8.3km, az=53.0

ISC 14 16:26:28.7:0.8, 14.31N:0.03:93.19W, 0.03, h31km, 2km, n1060, 0.201/941, mb5.1/285, MS4.5/64, 12C-14D, Near coast of Chiapas

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

SDD 14 16:26:39.3:0.8, 17.69N:70.61W, h31km, 528km, MD3.1, ML2.5, MW2.8

OSPL 14 16:06:40.0:1.5, 18.01N:70.59W, h17km, 185km, ML2.1

ISC 14 16:06:38.8:1.6, 17.84N:0.09:70.59W, 0.06, h20km, 98km, n9, 0.099/18, 1C-D, Dominican Republic region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

BER 14 16:20:04.9:0.7, 75.23N~7.77E, h29km, 12km, Mw4.1, Confirmed Earthquake, Greenland Sea

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.

NEIC 14 16:26:26.4:14.20N:93.19W, h16km

NEIC 14 16:26:26.9:2.5, 14.36N:0.05:93.16W, 0.05, h10km, 1km, mb5.1/51, Mw5.1/12, Mds.0/145(MEX), Error ellipse: s-maj=9.4km, s-min=7.5km, az=156.0

GCG 14 16:26:16.2:3.14, 11N:93.31W, h22km, 35km, MD4.8, ML5.4, MW4.7

NEIC 14 16:26:26.4:14.30N:93.19W, h16km, Moment Tensor Solution. Duration: 188 Moment tensor: Scale 10^16Nm; Mn3.78; Mm-0.84; Mm-0.84; Mm0.03; Mm0.96; Mr-0.21; Fault plane solution: Ms5.39000~1016 NP2: 2.99, 14000, 321.81000; 1.109.59000; NP2: 0.9, 817000, 869.51000; 1.82.36000; Principal axes: T 5.6733, Plg65.0000; Azm355.0000; N - 0.6315. Plg7.0000; Azm101.0000; P - 5.0418, Plg24.0000; Azm194.0000;

SNET 14 16:26:27.5:0.9, 14.21N:93.26W, h74km, 32km, ML5.5

GCMT 14 16:26:28.9:0.2, 14.37N:0.01:93.29W, 0.01, h13km, MW5.1/107, Moment Tensor Solution. s84, c116; s107, c163; Duration: 0 Moment tensor: Scale 10^16Nm; Mn3.93e-12; Mm-3.30e-09; Mm-0.63e-09; Mm2.53e-24; Mr-1.33e-06; Mr-3.56e-30; Best double couple: Ms5.61900~1016 NP1: 90000, 825.00000; Ms5.61900~1016 NP1: 90000, 825.00000; NP2: 1.135.00000; NP2: 1.135.00000; 870.00000; 1.105.00000; Principal axes: T 6.1610, Plg62.0000; Azm68.0000; N - 0.6770, Plg14.0000; Azm309.0000; P - 5.4770, Plg23.0000; Azm213.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

MOS 14 16:26:28.5:1.0, 14.55N:92.95W, h25km, mb5.2/39 Error ellipse: s-maj=10.6km, s-min=5.6km, az=98.6

CATAC 14 16:26:29.9:0.5, 14.1N:3.9W, h24km, 5km, M5.4/29, mb5.7/11, mb5.7/11, MLV5.5/9, Mw(mB)5.2/11, MwWmp4.5/1, MwWp4.9/1, Error ellipse: s-maj=6.6km

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, etc. Lists station data.







14d 16h

2019 JUN

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Table with columns: Call Sign, Name, Frequency, Mode, Power, and other details. Includes entries like K17K, K17K, H19K, E21K, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other details. Includes entries like BBTs Babate, NOR Nord, RAR Rarotonga, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other details. Includes entries like OUL Oulu, RETA Reutte, CLL Collin, etc.







Table with columns: PRP, Porcupine Dome, 62.00 338, P, P, 16 45 04.6 +1.2, etc. Lists various stations and their coordinates.

Table with columns: D22K, Ayikyak River, 66.01 340, P, P, 16 45 31.2 +1.6, etc. Lists various stations and their coordinates.

Table with columns: THIG, THIG, 1.32 62, i S, Sn, 16 59 28.7 -1.4, etc. Lists various stations and their coordinates.

MDD 14 17:05:12.8±1.2, 28°25'N x 166°9'W, h12km, 8km, mb\_Lg0.34, Error ellipse: s-maj=6.5km s-min=4.9km

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time Res, h m s, ISC. Lists station data for the MDD event.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like Alotenango, Sa, TGIG, HUIG, etc.

IDC 14 17:11:47.5:4.1, 14:34N:92.78W, h0km, mb3.8/3, mbmp3.7/4, MSA.0/1, MS3.6/1, Error ellipse: s-maj=146.4km s-min=71.5km az=47.0

GCG 14 17:11:50.4:1.8, 14:11N:93.25W, h37km, 11km, MD4.3, ML4.2, MW3.7

MEX 14 17:11:52.6:0.5, 14:36N:93.29W, h14km, 9km, MD4.3

ISC 14 17:11:49.1:1.0, 14:29N:0.07:93.29W, 0.03, h10km, n44, 0294/67, mb3.8/3, Near coast of Chiapas

Main station list table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like SMCA, PATR, PAVE, etc.

KRNET 14 17:12:32.6:0.1, 39.98N:69.40E, h16km, mb2.5

ISU 14 17:12:35.6:0.4, 07N:69.60E, h5km

ISC 14 17:12:36.6:1.4, 39.96N:0.04:69.63E, 0.03, h14km, 11km, n13, 0171/23, 8C-5D, Tajikistan

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like Batken, GAR, EXML, etc.

IDC 14 17:15:41.4:0.9, 37:15N:142:74E, h70km, 9km, mb3.3/3, mbmp3.9/7, Error ellipse: s-maj=17.9km s-min=14.2km az=159.0

JMA 14 17:15:43.1:0.2, 37:3N:0:5:142:6E, 1:0, h69km, MV4.3/3S, E OFF FUKUSHIMA PREF

ISC 14 17:15:40.8:0.9, 37:22N:0:05:142:79E, 0:08, h69km, 10km, n30, 0120/38, mb3.6/6, 8D, Off east coast of Honshu

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like JIKH, JIKH, JIKH, etc.

NEIC 14 17:15:46.0:1.0, 13:14N:0:09:89:69W, 0:04, h31km, 16km, ML3.9/22, Error ellipse: s-maj=13.2km s-min=5.0km az=194.0

SNET 14 17:15:48.3:1.3, 13:26N:89:59W, h46km, ML4.4, CATAC 14 17:15:48.8:0.3, 13:26N:89:59W, h37km, ML4.3/42, MLV4.3/42, Error ellipse: s-maj=8.1km s-min=3.3km az=28.0, confirmed

GCG 14 17:15:49.0:2.0, 13:31N:89:59W, h49km, 15km, MD4.2, ML4.4

IDC 14 17:15:54.3:4.5, 13:49N:89:80W, h113km, 42km, mb2.9/2, mbmp3.6/3, MS2.6/1, Error ellipse: s-maj=96.4km s-min=25.7km az=68.0

ISC 14 17:15:47.2:1.0, 13:20N:0:06:89:59W, 0:04, h58km, 7km, n133, 0097/140, El Salvador

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like LALI, LALI, LALI, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like LBRS, FAME, UNIC, etc.

ISC 14 17:15:40.8:0.9, 37:22N:0:05:142:79E, 0:08, h69km, 10km, n30, 0120/38, mb3.6/6, 8D, Off east coast of Honshu

GCG 14 17:42:41.4:1.6, 14:05N:93:26W, h35km, 999km, MD4.1, ML3.9, MW3.3

MEX 14 17:42:44.0:0.8, 14:34N:93:28W, h12km, 29km, MD4.0

ISC 14 17:42:36.5:2.1, 14:03N:0:08:93:27W, 0:04, h7km, 13km, n20, 0246/26, Near coast of Chiapas

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like THIG, THIG, THIG, etc.



Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like YOS, PIN, TOX, HUJ, TEH, YAG, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like COM, HUA, MON, ESC, YON, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SCH, YKA, YKA, YKA, etc.

NEIC 14 18:08:18.8±2.5, 14°12'N, 099.93°W±0.1, h10km, 2km, mb4.7/128, Error ellipse: s-maj=18.4km s-min=13.2km az=235.0

MEX 14 18:08:27.1±0.7, 14°23'N, 93°32'W, h7km, 55km, MD4.4 IDC 14 18:08:35.4±3.1, 14°55'N, 92°84'W, h87km, 27km, mb3.9/17, mbtmp4.3/19, Error ellipse: s-maj=28.6km s-min=13.1km az=7.0

ISC 14 18:08:21.2±0.6, 14°26'N, 05°93'26'W±0.04, h10km, n162, c±231/124, mb4.7/65, Near coast of Chiapas

HEL 14 18:10:20.1±0.1, 59°79'N, 27°42'E, h0km, ML2.1, Explosion EST 14 18:10:20.6±0.1, 59°82'N, 27°39'E, h0km, ML2.0(H,HEL), Explosion

IDC 14 18:10:22.1±1.2, 59°87'N, 27°19'E, h0km, mbtmp3.1/4, ML2.4/3, Error ellipse: s-maj=11.6km s-min=8.3km az=94.0

ISC 14 18:10:18.8±0.8, 59°82'N, 02°07'23'E±0.03, h0km, n34, c±191/516, Baltic States-Belarus-Northern Russia

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like THG, PATR, CHUJ, PAVE, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like EE04, VJF, VJF, etc.



Table with columns: Code, Station Name, Az, AZ', Phase ID, Time, Res. Includes entries for VSU, VASULA, NURMILJARVI, etc.

Table with columns: Code, Station Name, Az, AZ', Phase ID, Time, Res. Includes entries for CCIG, Comitan, Sabana Grande, etc.

Table with columns: Code, Station Name, Az, AZ', Phase ID, Time, Res. Includes entries for CEGR, Campo Tres, Isla de Provid, etc.

14d 18h

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like 142A Van Buren, SDV Santo Domingo, SDV comp-Z,27nm,0.8s, etc.

2019 JUN

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like NNA Nana, SPMN Marine on Pt, SPR3 Spring Creek, etc.

754

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other parameters. Includes entries like BBB Bella Bella, SALV Santa Antonio, SNDB Serra Nova Du, etc.



Table listing station data for the 14d 18h period. Columns include call sign, name, frequency, power, and other technical details.

Table listing station data for the 2019 JUN period. Columns include call sign, name, frequency, power, and other technical details.

Table listing station data for the 2019 JUN period. Columns include call sign, name, frequency, power, and other technical details.

IDC 14 18:17:38.1±2.5, 81°71'N:37°54'E, h0km, mb3.5/10, mtmp3.5/12, ML3.7/2, MS2.9/1, Error ellipse: s-maj=45.7km s-min=16.8km az=160.0

KOLA 14 18:17:43.2, 82°10'N:31°47'E, h0km, ML2.0, Error ellipse: s-maj=71.4km s-min=33.4km az=140.0, Arctic Ocean

ISC 14 18:17:39.6±1.6, 81.71N:02:35:95E±0.09, h10km, n19, 25/24, mb3.4/9, Franz Josef Land

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, h, m, s, ISC. Lists various stations and their associated data.

IDC 14 18:27:48.3±2.0, 14°47'N:92°59'W, h0km, mb3.9/7, mtmp3.9/9, ML3.6/2, Error ellipse: s-maj=70.8km s-min=25.9km az=30.0

NEIC 14 18:27:51.0±0.7, 14°N:3°37'W, h8km±4km, M4.6/13, mb4.4/38, MD4.3/34(MEX), Error ellipse: s-maj=9.6km s-min=6.6km az=151.0

GCG 14 18:27:51.6±2.7, 14°13'N:93°21'W, h35km, 999km, MD4.6, M4.4

MEX 14 18:27:53.0±0.6, 14°29'N:93°32'W, h15km±17km, MD4.5, CATA 14 18:27:54.1±0.7, 14°N:3°37'W, h8km±4km, M4.6/13, mb4.9/1, mB5.2/1, MLv.4/13, Mw(mB)4.6/1, Error ellipse: s-maj=8.9km s-min=6.4km az=71.3, confirmed

ISC 14 18:27:51.2±3.4, 14°11'N:02:36:93Z±0.03, h29km±25km, n136, ±25/27/14, mb4.3/20, CG-06, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, h, m, s, ISC. Lists various stations and their associated data.

Table with columns: Station Name, Frequency, Mode, Class, and Time. Includes stations like Retalhuleu, El Palmar, Qui, SOKI, Huehuetenango, CCIG, FAME, HUIG, JAYA, NOA, FINES, WRA, CMAR, PETF, VHO, YOIG, PNIG, CNCH, TXIG, HLIG, FTIG, MGIG, PBCV, PBXN, PBPB, PPM, MEIG, YAIG, CXJUV, PLIG, MVI, ARIG, ZIG, JTS, MMIG, 833A, 545A, DRIO, SAND, TXAR, TX31, MNHN, VHRN, POST, MIAR, MIAR.

Table with columns: Station Name, Frequency, Mode, Class, and Time. Includes stations like CLNB, HTMS, MINTX, RUCS, SMWD, KAN09, SBM, RTBA, T25A, PV18, NVAR, TPWAU, YNE, MCMT, EGMT, YKAW1, YKA, YKAW3, ILON, BCAR, L27K, G2M, RES, H27K, E29M, E29M, E28M, ILAR, BMAR, TRF, D25K, F21K, D20K, F15K, ESDC, NOA, FINES, WRA, CMAR, IDC, MEX, ISC, Code, Station Name, Az, Az', Phase ID, Time, Res.

Table with columns: Station Name, Frequency, Mode, Class, and Time. Includes stations like VHO, VHO, YOIG, PNIG, TXIG, TOIG, HLIG, FTIG, FTIG, TLIG, CXJUV, TXAR, PDAR, NVAR, YKA, ILAR, ESDC, FINES, SONM, WRA, ASAR, CMAR, NEIC, MEX, GCG, CATAC, GCMT, ISC, Code, Station Name, Az, Az', Phase ID, Time, Res.

14d 18h

Table with columns for station name, frequency, and signal strength. Includes stations like FG16, FAME, HUIG, SLOZ, LOAL, NUBE, etc.

2019 JUN

Table with columns for station name, frequency, and signal strength. Includes stations like BRU2, LNIC, ZNIG, CJM, etc.

758

Table with columns for station name, frequency, and signal strength. Includes stations like RUSC, FLOC, TUL3, DEOK, etc.



759

Table with columns: Station, Location, Frequency, Power, Class, and other technical details. Includes stations like Blue Mesa, Par, Carpenter Ridg, Hualapai Mount, etc.

2019 JUN

Table with columns: Station, Location, Frequency, Power, Class, and other technical details. Includes stations like Schefferville, Yellowknife Wh, Toad River, etc.

14d 18h

Table with columns: Station, Location, Frequency, Power, Class, and other technical details. Includes stations like Hart River, Juniper Island, Paulatuk, etc.

14d 18h

Table with columns for station ID, name, elevation, coordinates, and status. Includes stations like E29M Blow River, M23K Glacier View, SEW Seward, F28M Old Crow, K24K Donnelly Dome, etc.

2019 JUN

Table with columns for station ID, name, elevation, coordinates, and status. Includes stations like D25K Kavik River, P17K Kvichak River, E24K You Creek, etc.

760

Table with columns for station ID, name, elevation, coordinates, and status. Includes stations like G18K Tagagawik, J16K Anvik River, D20K Etivluk River, etc.

NEIC 14 18:50:33.4;1.4, 19:369N;0:005:155:89W;0:01, h5km,2km, Error ellipse: s-maj=3.0km s-min=2.1km az=261.0

HVO 14 18:50:33.3;1.1, 19:36N;0:01:155:88W;0:01,h6km,4km, ML2.6/24,ML2.6/40(NEIC), Error ellipse: s-maj=1.7km s-min=1.5km az=217.0,Hawaiian Islands

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time Res, H m s, ISC. Rows include various stations like Captain Cook, Kahuku, ALEP, Mokuaweo, etc.

IDC 14 18:51:43.9;3.3, 31:48S;138:63E, h0km, mbtmp3.1/4, ML2.8/4, Error ellipse: s-maj=52.8km s-min=13.6km az=31.0

AUST 14 18:51:44.9;0.2, 32:51.7;133:9'E, h10km, LMG.29/17, Error ellipse: s-maj=4.1km s-min=3.1km az=89.9

ISC 14 18:51:44.8;1.0, 31:73S;138:52E;0:04,h17km,7km, n27,r1518/36, South Australia

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time Res, H m s, ISC. Rows include various stations like YAPP, LCRK, NAPP, etc.

FITZ Fitzroy Crossi 17.88 316 P P 18.55 52.8 -0.6 baz=121,slow=12,SNR=1.4, 0.7nm,0.7s

KRNET 14 18:58:48.9;0.1, 39:47N;72:09E, h15km, mb3.0 ISU 14 18:58:50.3;54N;72:01E, h9km NNC 14 18:58:50.8;3.5, 39:27N;71:82E, h16km,23km, mb3.5, mpv3.1, Error ellipse: s-maj=31.0km s-min=25.3km az=109.0

ISC 14 18:58:48.8;1.2, 39:46N;0:05:72:10E;0:03,h11km,9km, n27,r1590/44,18C-12D, Kyrgyzstan

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time Res, H m s, ISC. Rows include various stations like DRK, CHMI, FER, BAT, OSH, SUF, etc.

IDC 14 18:59:16.5;0.7, 15:17S;166:98E, h0km, mb4.2/15, mbtmp4.2/15, MS3.7/12, Error ellipse: s-maj=24.3km s-min=16.5km az=102.0

NOU 14 18:59:20.9, 15:10S;166:90E, h10km, MLv5.1/18, Vanuatu Islands

NEIC 14 18:59:20.8;0.9, 15:09S;0:07:166:94E;0:09, h22km,5km, mb4.9/50, Error ellipse: s-maj=13.3km s-min=8.7km az=60.0

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time Res, H m s, ISC. Rows include various stations like SANVU, INH, KOUNC, etc.

baz=183 H11N3 WAKE ISLAND Hy 34.62 0 T T 19 43 14.7 baz=183 H11N2 WAKE ISLAND Hy 34.63 0 T T 19 43 10.4

GUMO Guam 35.84 322 LR LR 19 20 27.8 KNRA Kununurra 36.64 264 P P 19 06 26.1 0.0 FITZ Fitzroy Crossi 39.50 260 P P 19 06 49.9 +0.8 FITZ Fitzroy Crossi 39.50 260 P P 19 06 50.9 +0.8

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time Res, H m s, ISC. Rows include various stations like NWAOL, MJAR, MAJO, etc.

IDC 14 19:05:47.3;1.1, 5:52S;102:89E, h0km, mb4.1/14, mbtmp4.2/14, MS3.4/1, Error ellipse: s-maj=40.7km

s-min=14.8km az=49.0
DJA 14 19:05:52.7,0.3,6.5,3.3,10.3E, h55km,6km, M4.5/12,
mb6.2/1, mb4.6/6, MLV4.5/12, Mw(mb)5.9/1
NEIC 14 19:05:53.0,1.8,5.5,7.5,0.07,102.84E,0.09,4.0km,8km,
mb4.4/19, Error ellipse: s-maj=14.7km s-min=7.6km
az=58.0

ISC 14 19:05:52.2,0.6,5.6,0.5,0.07,102.89E,0.08,h38km,n72,
r1502/62,mb4.3/25,Southern Sumatara

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like MNAI, UGM, CM31, WRA, etc.

mbmp3.8/6, Error ellipse: s-maj=33.3km s-min=27.3km
az=95.0
ISC 14 19:07:01.5,0.7,15.0,8.5,0.06,166.75E,0.08,h10km,n30,
r130/32,mb4.4/10,Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like SANVU, VLAKA, LUES, etc.

ISC 14 19:11:52.8,8.4,9.2,8N-93.11E,h0km,mb3.4/4,
mbtmp3.4/4,MS3.7/1, Error ellipse: s-maj=451.6km
s-min=25.6km az=59.0,Nicarobar Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like TGy, MKAR, KURBB, etc.

GCG 14 19:17:20.5,1.4,14.9,2N:89.58W,h16km,33km,MD3.8,
MWV3.3
SNET 14 19:17:21.3,1.1,14.9,3N:89.66W,h16km,7km,ML3.1
ISC 14 19:17:19.6,1.3,14.9,9N:0.06,89.59W,0.05,h6km,n15,
r095/21,Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like MTO3, NUBE, etc.

MEX 14 19:17:50.8,0.6,15.01N:93.67W,h16km,9km,MD4.3,
GCG 14 19:17:54.0,0.8,15.45N:92.97W,h88km,14km,MD4.2,
MWV3.0
ISC 14 19:17:47.3,1.3,15.00N:0.06,93.55W,0.03,h29km,13km,
n28,r264/44,Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like PCIG, THIG, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like YOIG, TOIG, etc.

IDC 14 19:23:42.4,4.8,10.2,161.49E,h75km,44km,mb3.6/11,
mbtmp4.0/12,ML4.0/1, Error ellipse: s-maj=27.8km
s-min=20.3km az=83.0

NEIC 14 19:23:43.7,2.5,10.2,161.6E,0.1,h85km,6km,
mb4.4/19, Error ellipse: s-maj=16.5km s-min=2.5km
az=61.0

ISC 14 19:23:44.0,4.0,6.0,133.5N:0.07,161.59E,0.09,h100km,n42,
r157/38,mb4.1/21,Bougainville-Solomon Islands
region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like HNR, SANVU, etc.

NEIC 14 19:46:20.3,1.9,6.1,18S:0.09,146.1E,0.1,h106km,9km,
mb4.1/14, Error ellipse: s-maj=21.6km s-min=11.9km



Table with columns for station name, frequency, power, and other technical details. Includes stations like STKA Stephens Creek, BLDU Ballidu, and various others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like PSI Prapat, MGBR Mangrove Creek, SYDH Sydney Harro, and various others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like Tasmania Univ, Guiyang, and various others.



Table with columns for station name, location, frequency, power, and signal quality. Includes stations like XAN, Chengu, Dalian, Taiyuan, Beijing, Lanzhou, and many others across various frequency bands.

14d 20h

Table with columns for station name, frequency, power, and signal strength. Includes stations like Ulanbaatar, Songoing Array, Amsterdams Isla, Kaadhehdhoo, etc.

2019 JUN

Table with columns for station name, frequency, power, and signal strength. Includes stations like Uzynbulak, Przheval'sk, Makanchi Array, Yakutsk, etc.

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Table with columns for station name, frequency, power, and signal strength. Includes stations like ZALV, BTK, BTLS, KURBB, etc.

Table with columns: Station, Frequency, Power, Direction, Date, Time, etc. Includes stations like TBI, DMT0, PPT2, MDH, UOSS, etc.

Table with columns: Station, Frequency, Power, Direction, Date, Time, etc. Includes stations like K13K, AKTO, S14K, TNA, O14K, etc.

Table with columns: Station, Frequency, Power, Direction, Date, Time, etc. Includes stations like E17K, RDOG, KBD, Q18K, C17K, etc.

14d 20h

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like Naaghedeneel, Avaraat Lake, Mt Spurr, etc.

2019 JUN

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like P23K, P23K, I23K, etc.

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Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like GURO, J25K, G25K, etc.

I28M	Miner Creek	95.00	25	P	P			20 24 02.5	+0.9
F28M	Old Crow	95.14	23	P	P			20 24 02.6	+0.6
DAWY	Dawson	95.17	26	P	P			20 24 03.0	+0.7
E28M	Babbage River	95.31	22	P	P			20 24 03.4	+0.6
Q29M	Mount Kennedy	95.38	30	P	P			20 24 03.9	+0.4
O29M	Mount Kennedy	95.38	30	P	P			20 24 04.2	+0.8
YUK4	Talbot Arm	95.39	29	P	P			20 24 04.6	+1.0
TROLL	Troll, Antarti	95.44	194	↑P				20 24 04.6	+1.1
TROLL				ix	x			20 24 54.7	
VORD	Vord Divnogorie	95.44	321	eP				20 23 59.9	-3.8
VORD				e				20 27 51.4	
YUK6	Outpost Mounta	95.51	29	P	P			20 24 04.8	+0.6
M29M	Somme Creek	95.52	28	P	P			20 24 04.5	+0.4
M29M	Somme Creek	95.52	28	P	P			20 24 05.1	+1.1
VORR	Voronezh	95.52	321	eP				20 24 03.1	-1.0
VORR				eP				20 23 59.9	-4.3
VSR	Storozevoje	95.53	321	eP				20 27 55.2	
VSR				e					
D28M	Stokes Point	95.63	21	P	P			20 24 04.8	+0.6
H29M	Whitestone	95.68	24	IAMB	IAMB			20 24 06.1	
H29M	Whitestone	95.68	24	P	P			20 24 05.0	+0.4
I29M	Ogilvie Camp,	95.68	25	P	P			20 24 05.0	+0.4
KLMR	Klimovskoe	95.69	331	eP				20 24 01.6	-3.0
KLMR				e				20 27 54.2	
KLMR				S				20 34 26.6	-1.7
J29N	Klondike Camp	95.69	26	IAMB	IAMB			20 24 07.6	
J29N	Klondike Camp	95.69	26	P	P			20 24 05.8	+1.0
L29M	L29M	95.69	27	IAMB	IAMB			20 24 07.0	
L29M	L29M	95.69	27	P	P			20 24 05.8	+1.1
LODK	Lodwar	95.71	273	P	P			20 24 05.8	-0.1
LODK				IAMB	IAMB			20 24 07.8	
LODK	Lodwar	95.71	273	P	P			20 24 06.8	+0.9
P29M	Windy Craggy	95.78	31	P	P			20 24 06.1	+0.9
G29M	Pine Creek	95.83	23	P	P			20 24 05.8	+0.5
E29M	Blow River	95.91	22	P	P			20 24 05.6	+0.1
HYT	Haines Junctio	95.93	29	P	P			20 24 05.7	+0.2
BELA	Belgrano 2	95.98	183	P	IAMB	IAMB		20 24 05.7	-0.1
K29M	Barlow Dome	95.98	26	IAMB	IAMB			20 24 08.2	
K29M	Barlow Dome	95.98	26	P	P			20 24 07.0	+0.9
N30M	Aishkik Lake	96.14	29	P	P			20 24 07.7	+0.8
P30M	Million Dollar	96.18	30	P	P			20 24 07.7	+0.7
GAZ	Gaziantep	96.33	307	P	IAMB	IAMB		20 24 08.3	0.0
GAZ				IAMB	IAMB			20 24 09.7	
EPYK	Edge Plains	96.35	24	P	P			20 24 07.7	+0.1
ASF	Jabal al Asfar	96.36	302	P	P			20 24 08.8	+0.4
ASF				PP	PP			20 28 03.0	-0.9
ANN	Anapa	96.46	314	eP				20 24 06.8	-1.7
ANN				e				20 34 32.2	
ANN				pmax	pmax				
ANN				pmax	pmax				
ANN				pmax	pmax				
PLBC	Pleasant Camp	96.48	31	P	P			20 24 08.7	+0.5
I30M	Mount Dempster	96.49	25	IAMB	IAMB			20 24 09.8	
I30M	Hart River	96.49	25	P	P			20 24 08.7	+0.3
J31M	Pelican	96.53	32	P	P			20 24 09.0	+0.5
G30K	tAoh Zraii Nji	96.54	23	P	P			20 24 08.2	-0.3
MOS	Moscow	96.58	325	eP				20 24 05.4	-3.4
MOS				e				20 28 01.2	
MOS				ePS	PS			20 36 51.9	-4.1
MOS				eSS	SS			20 41 49.5	-5.9
MOS				eSSS	SSS			20 45 40.7	
MOS				pmax	pmax				
O30N	Mendenhall	96.62	30	P	P			20 24 09.8	+0.8
F30M	Barrier River	96.70	23	P	P			20 24 09.3	+0.2
MAYO	Mayo, Yukon	96.71	27	IAMB	IAMB			20 25 01.5	
MAYO	Mayo, Yukon	96.71	27	P	P			20 24 10.3	+1.0
N31M	Braeburn, Yuko	96.77	29	P	P			20 24 10.5	+0.9
SNA4	Sanae	96.93	193	↑P				20 24 10.9	+0.6
SNA4				ix	x			20 40 50.9	
SNA4	Sanae	96.93	193	P	IAMB	IAMB		20 24 10.5	+0.3
SNA4				IAMB	IAMB			20 24 12.1	
SNA4	Sanae	96.93	193	P	P			20 24 10.7	+0.5
SNA4				iSP	PKKPbc			20 34 35.8	-0.4
SNA4				i	SS			20 35 26.8	+3.1
SNA4				i	SSS			20 37 06.1	
SNA4				pmax	pmax				
SKAG	Skagway	97.00	31	P	Pdf			20 24 11.4	+0.7
SKAG	Skagway	97.00	31	P	Pdf			20 24 12.3	+1.6
SKAG	Skagway	97.00	31	P	Pdf			20 24 11.6	+0.9
SIT	Sitka	97.02	33	P	Pdf			20 24 11.6	+0.8
TOKA	Tokat	97.02	310	P	P			20 24 11.0	-0.3
OBN	Obninsk	97.18	325	P	P			20 24 10.4	+0.4
OBN	Obninsk	97.18	325	P	P			20 24 10.3	-1.2
OBN				comp=Z,125nm,0.9s	baz=43,slow=1.4,SNR=46				
OBN				comp=Z,125nm,0.9s					
OBN	Obninsk	97.18	325	↑P				20 24 10.3	-1.2
OBN	Obninsk	97.18	325	eP				20 24 10.1	-1.4
OBN				iSP	PWP			20 24 52.0	+3.9
OBN				i	SKSac			20 34 35.8	-0.4
OBN				i	SS			20 35 26.8	+3.1
OBN				pmax	pmax			20 37 06.1	
WHY	Whitehorse	97.22	30	IAMB	IAMB			20 24 13.4	
WHY	Whitehorse	97.22	30	P	Pdf			20 24 12.4	+0.6
BESE	Bessie Mounai	97.26	32	IAMB	IAMB			20 24 13.9	

G31M	Satah River	97.31	23	P	P			20 24 11.8	-0.1
H31M	Peel River	97.33	24	IAMB	IAMB			20 24 13.8	
H31M	Peel River	97.33	24	Pdf				20 24 12.1	0.0
M31M	Drury Creek, Y	97.42	28	P	Pdf			20 24 12.6	0.0
S32K	Killisnoo	97.42	33	P	Pdf			20 24 13.1	+0.6
R32K	Eaglecrest	97.44	32	P	Pdf			20 24 12.8	0.0
R32K	Eaglecrest	97.44	32	P	Pdf			20 24 13.4	+0.7
GHAJ	Ghor Haditha	97.45	301	P	Pdf			20 24 13.7	+0.4
BNN	Bunyan	97.47	308	P	P			20 24 12.8	-0.7
F31M	Tsightechic	97.50	23	IAMB	IAMB			20 24 13.4	
F31M	Tsightechic	97.50	23	P	P			20 24 12.4	-0.2
JIS	Juneau Island	97.51	32	P	Pdf			20 24 13.9	+0.9
INK	Inuvik	97.53	22	IAMB	IAMB			20 24 13.7	
INK	Inuvik	97.53	22	P	P			20 24 11.8	-1.0
INK	Inuvik	97.53	22	IAMB	IAMB			20 24 12.5	-0.3
INK	Inuvik	97.53	22	PKKPbc	PKKPbc			20 34 36.1	-1.4
INK	Inuvik	97.53	22	PKKPbc	PKKPbc			20 24 12.5	-0.3
MMAI	Mount Meron Ar	97.65	302	P	Pdf			20 24 15.0	+0.6
MMAI				comp=Z,43nm,1.0s	baz=51,slow=6.3,SNR=53				
MMAI				comp=Z,43nm,1.0s	baz=51,slow=6.3,SNR=53				
MMAI				comp=Z,3.9nm,0.8s	baz=96,slow=2.7,SNR=5.2				
MMAI				comp=Z,0.5nm,0.4s	baz=230,slow=3.6,SNR=4.4				
MMAI				comp=Z,98nm,21.3s	baz=106,slow=39			21 14 31.5	
LVZ	Lovozero	97.71	338	P	P			20 24 12.3	-1.4
LVZ	Lovozero	97.71	338	P	P			20 24 12.6	-1.1
P32M	Atlin	97.83	31	P	Pdf			20 24 14.9	+0.5
FARO	Faro, Yukon	97.91	28	IAMB	IAMB			20 24 16.2	
FARO	Faro, Yukon	97.91	28	P	Pdf			20 24 15.3	+0.6
EIL	Elat	97.91	299	P	Pdf			20 24 15.6	+0.1
DIKM	Diikmen	97.98	311	↑P	P			20 24 11.9	-3.6
N32M	Quiet Lake	98.08	29	IAMB	IAMB			20 24 17.2	
N32M	Quiet Lake	98.08	29	P	Pdf			20 24 16.1	+0.5
APA	Apaitity	98.20	337	iP	PPP			20 24 13.1	-2.8
APA				i	PPP			20 28 12.8	
APA				i	PPP			20 30 22.0	
APA				i	PPP			20 34 39.0	
APA				i	SS			20 35 25.0	-6.8
APA				i	SS			20 37 15.0	+1.8
APA				i	SS			20 42 13.0	-4.6
APA				pmax	pmax				
U33K	Whale Pass	98.25	34	P	Pdf			20 24 17.3	+1.0
U33K	Whale Pass	98.25	34	P	Pdf			20 24 17.2	+0.9
CRAG	Craig	98.27	35	P	Pdf			20 24 16.6	+0.2
CRAG	Craig	98.27	35	P	Pdf			20 24 17.1	+0.7
CRAG	Craig	98.27	35	P	Pdf			20 24 17.5	+1.1
CRAG	Craig	98.27	35	P	Pdf			20 24 17.4	+1.0
Q32M	Nakina River	98.59	31	P	Pdf			20 24 18.9	+0.8
WRAK									

Table with columns for call sign, frequency, name, and technical data. Includes stations like KGCAG Kacgae, BOSR Bodos, SZH Strazhista, BURAR Bucovina Array, etc.

Table with columns for call sign, frequency, name, and technical data. Includes stations like NVAR comp=Z,4.4nm,0.8s,baz=240,slow=2.1,SNR=8.6, NVAR comp=Z,4.1nm,0.9s,baz=254,slow=4.1,SNR=4.4, etc.

Table with columns for call sign, frequency, name, and technical data. Includes stations like GBAS FLTG Flechtingen, BIOA Bad Ichni, CEY Carckisch, NEUB Neuburg, etc.



KEST	comp=Z,5.9nm,0.9s,baz=34,slow=2.1,SNR=4.3	PKKPbc	PKKPab	20 29 45.4	-0.6	PBEJ	/x	tx	20 30 33.0	1			PKIKP	20 30 21.1	-1.4				
KEST	Kesra 118.75 308 P	PKKP		20 29 28.3	+0.9	PVAQ	Vaqueiros	130.89 316	ePKPdf	PKKP			IRES	Siquieres	145.82 81	eP	PKPab	20 30 20.8	+1.2
LPIG	La Paz 118.75 66 PKP	PKIKP		20 29 28.5	+1.0	PVAQ			ePP	PK			SAJE	San Jernim	145.87 82	eP	PKPab	20 30 20.0	0.0
PGBU	Gleniferbraes 118.86 333i eP	PKP		20 29 26.7	+0.1	PVAQ			/x	tx			FIMO	Fila Mora	146.03 83	eP	PKIKP	20 30 22.6	-0.4
LBWR	Ladybowser, Pea 118.93 330i eP	PKP		20 29 27.4	+0.3	PVAQ			/x	tx			DRKO	Durika	146.14 82	eP	PKPbc	20 30 20.5	+0.3
SFDJ	Kangerlussuaq 118.97 1 P	PKP		20 29 25.8	-0.8	PVAQ			eR	LR			DRKO	Durika	146.13 82	eP	PKPbc	20 30 22.7	+0.6
LAWE	Loch Awe, Argy 118.93 334i eP	PKP		20 29 27.2	+0.1	PVAQ			/x	IAMS_20			DRKO			eS	pPKIKP	20 30 59.1	+3.1
CWF	Charnwood Fore 119.07 329 eP	PKP		20 29 27.0	-0.3	PVAQ			/x	IAMS_20			DRKO			eS	pPKIKP	20 30 59.1	+3.1
SSB	Saint Saviour 19.14 319	PKIKP		20 29 27.4	-0.3	comp=Z,923nm,18.0s	Castro Verde	131.00 316	ePKPdf	PKIKP			VERH	Veragua Rainfo	146.14 81	eP	PKPab	20 30 22.0	-1.1
SSB	Saint Saviour 19.14 319	PKIKP		20 29 27.4	-0.3	PCVE			ePP	PK			EDP2	Petro Grande	146.21 83	eP	PKPab	20 30 21.8	+0.6
NEWG	New Galloway 19.14 332i eP	PKIKP		20 29 27.5	+0.1	PCVE			ePP	PK			CEUA	Cerro Uatsi L	146.41 81	eP	PKPab	20 30 22.5	+0.5
STNC	Stoke 19.14 330 eP	PKIKP		20 29 28.4	+0.6	PCVE			ePP	PK			BRIBI	Bribri	146.53 81	eP	PKPab	20 30 23.0	+0.6
GALI	Galloway 19.14 332i eP	PKIKP		20 29 27.2	+0.1	MESJ	Messejana	131.02 316	ePKPdf	PKIKP			BRUC	Bruce	146.55 82	eP	PKPab	20 30 21.0	-0.1
ANGG	Ammassalik, Gr 19.80 354 P	PKP		20 29 27.3	-1.0	MESJ			ePP	PK			BRU2	Volcan	146.70 83	eP	PKPbc	20 30 23.0	+0.5
IOMK	Kirk Michael 19.82 332i eP	PKIKP		20 29 29.0	+0.3	MESJ			eS	IAMS_20	IAMS_20		BRU2	Volcan	146.70 83	eP	PKPbc	20 30 23.0	+0.5
Y2ZD	IRIS PASCALL 19.87 54 P	PKP		20 29 29.2	-0.4	MESJ			eS	IAMS_20	IAMS_20		BRU2	Volcan	146.70 83	eP	PKPbc	20 30 23.0	+0.5
WIM	Iste of Man 19.94 332i eP	PKIKP		20 29 29.1	+0.1	comp=Z,2um,34.3s	Messejana	131.02 316	ePKPdf	PKIKP			BC3P	Paso Ancho	146.78 83	eP	PKIKP	20 30 25.1	+0.5
FOEL	Foel Yifan 19.95 330i eP	PKIKP		20 29 29.5	+0.4	MESJ			/x	tx			CLLR	Cordillera,	146.78 83	eP	PKPbc	20 30 21.0	-0.1
SWNI	Swindon 19.99 328i eP	PKIKP		20 29 29.4	+0.3	LIS	Lisbon	131.20 318	ePKPdf	PKIKP			MCANO	Manzana, Boque	146.83 83	eP	PKIKP	20 30 24.1	-0.4
ISOG	Isortoq, Gr 19.99 355 P	PKP		20 29 28.1	-0.6	LIS			eS	IAMS_20	IAMS_20		BQSF3	Alto Boquete,	146.96 83	eP	PKPab	20 30 23.5	-0.7
SDCO	Great Sand Dun 19.99 50	PKP		20 29 28.8	-1.2	LIS			eS	IAMS_20	IAMS_20		CSBTL	De las Acacias	146.96 84	eP	PKIKP	20 30 24.6	-0.2
HLMI	Long Mynd 120.00 329i eP	PKIKP		20 29 29.4	+0.2	LIS			/x	tx		ITAB	Concordia	146.97 175	eP	PKPbc	20 30 21.3	-0.7	
ANMO	Albuquerque 120.03 53 PKP	PKIKP		20 29 31.4	+1.3	LIS			eS	IAMS_20	IAMS_20		PEDES	Pedregal, Chir	146.98 84	eP	sPKPdf	20 31 04.0	-1.7
ANMO	comp=Z,39nm,0.9s,baz=293,slow=2.1,SNR=50	PKKPbc	PKKPab	20 30 42.0	-0.4	comp=Z,3um,27.7s	Messejana	131.02 316	ePKPdf	PKIKP			CPUP	Villa Florida	147.04 167	PKPbc	PKPdf	20 30 20.9	+0.9
STRD	Stroud 120.00 330i eP	PKIKP		20 29 29.2	0.0	LIS			/x	tx		CPUP	comp=Z,2.5nm,0.9s,baz=88,slow=0.2,SNR=81		PP	20 33 48.5	+2.3		
CLGH	Cloghs, Cushen 120.04 333i eP	PKIKP		20 29 29.3	+0.2	LIS			/x	tx		CPUP	comp=Z,2.5nm,0.9s,baz=138,slow=0.4,SNR=33		PP	20 33 48.5	+2.3		
WME	Myndd Eilian 120.00 331 eP	PKIKP		20 29 29.7	+0.2	LIS			/x	tx		CPUP	comp=Z,2.5nm,0.9s,baz=138,slow=0.4,SNR=33		PP	20 33 48.5	+2.3		
WFS	Cemans, Angles 120.30 331 eP	PKIKP		20 29 29.9	+0.2	Z41A	Richland Creek	131.26 50	PKP				CPUP	Villa Florida	147.04 167	PKIKP	PKPdf	20 30 21.0	+0.9
WLF1	Lynfaes 120.31 331 eP	PKIKP		20 29 30.0	+0.3	PTEO	SA Teotónio	131.51 316	ePKPdf	PKIKP			RBAL	Bur	147.23 83	eP	PKPab	20 30 24.1	-0.9
MCH1	Michaelschurck 120.35 329i eP	PKIKP		20 29 29.8	0.0	PTEO			ePP	PK		NANA	Nana	147.31 123	PKPbc	PKPab	20 30 22.7	-0.6	
ICH1	Inch Island, C.	120.67 334i eP	PKIKP	20 29 30.5	+0.1	PTEO			ePP	PK		INSA	Insa	147.38 84	eP	PKPbc	20 30 25.8	+0.1	
T2SA	Trinidad 121.00 50	PKIKP		20 29 32.3	+1.2	MORF	Marinete	131.59 316	ePKPdf	PKIKP			KNNTU	Kakini	147.57 83	eP	PKPab	20 30 22.0	+0.8
ULM	Lac du Bonnet 121.09 33 PKP	PKP		20 29 31.0	-0.3	MORF			eS	IAMS_20	IAMS_20		PB08	IPOC Station P	147.57 143	eP	PKPbc	20 30 22.4	+0.8
ULM	comp=Z,3.7nm,0.7s,baz=311,slow=1.7,SNR=49	PKP		20 29 31.2	-1.2	MORF			eS	IAMS_20	IAMS_20		GMAL	Guarumar, Vera	148.18 86	eP	PKPbc	20 30 25.1	-0.5
ULM	comp=Z,1.7nm,0.9s,baz=120,slow=4.7,SNR=62	PKKPbc	PKKPab	20 30 34.2	-1.2	MORF			/x	tx		CAACO	EI Cacao, Vera	148.56 86	eP	PKIKP	20 30 27.8	-0.2	
ULM	Lac du Bonnet 121.09 33 PKIKP	PKIKP		20 29 31.0	-0.3	MORF			e	PKIKP		CHIC3	Chitre	148.98 84	eP	sPKPdf	20 30 23.1	-5.2	
RBSB	Rosebush, Pemb 121.26 330i eP	PKP		20 29 31.6	0.0	MORF			/x	tx		CHIT3			eS	PKP	20 31 07.9	+1.4	
DBL	Dublin 121.29 331	PKP		20 29 30.8	-0.7	MORF			e	PKIKP		AZU	Azuero	149.13 85	eP	PKP	20 30 27.1	-1.0	
JSJ	Saint Aubin 121.42 326i eP	PKIKP		20 29 32.1	+0.1	MORF			e	PKIKP		AZU	Azuero	149.13 85	eP	PKIKP	20 30 29.3	0.0	
DYA	Yadsworth 121.70 328i eP	PKIKP		20 29 32.3	0.0	PFVI	Vila Bispo	131.79 316	ePKPdf	PKIKP		ZANG	Zanguangua, Cho	149.48 82	eP	PKPbc	20 30 29.1	+0.1	
NUUK	Nuuk 121.77 P	PKP		20 29 31.5	-0.6	PFVI			/x	tx		BCIP	Isla Barro Col	149.49 82	eP	PKP	20 30 23.1	-1.2	
INWX	Carrickbreagh 122.02 331 eP	PKIKP		20 29 33.0	-0.1	SIUC	Southern Illin	131.79 43	PKP			BCIP			iS	sPKIKP	20 31 09.8	-0.1	
IBED	Saint Brevard 122.03 328i eP	PKP		20 29 32.7	-0.3	KIQA	Casco	132.87 34	PKP			CHOR3	La Chorrera	149.58 82	eP	PKP	20 30 30.8	+0.7	
RTBA	Rita Blanca 122.50 50	PKP		20 29 33.3	-1.2	WCI	Wyandotte Cave	133.46 41	PKP			CAZU	Cerro Azul, Pa	149.91 82	eP	PKP	20 30 24.7	+0.2	
CCAT	Carmenella 122.58 328i eP	PKIKP		20 29 34.0	+0.1	WCI	Wyandotte Cave	133.46 41	PKHKP			OTAV	Otavalo	150.31 100	PKIKP	PKP	20 30 28.4	+2.2	
IGLA	Glenngowla, Co 122.58 328i eP	PKIKP		20 29 34.0	+0.2	WWT	Waverly	133.56 44	PKIKP			LPZJ	La Paz 12140 PKP		PKP	20 30 29.3	+1.7		
TX31	Lajitas Ar. Si 123.70 59	PKP		20 29 35.9	-1.2	WWT	Waverly	133.56 44	PKIKP			LPZJ	comp=Z,16nm,1.0s,baz=214,slow=2.5,SNR=18		PKPbc	PKIKP	20 30 35.2	+1.1	
TXAR	Lajitas Array 123.70 59 PKP	PKP		20 29 37.9	+0.6	R49A	Shelbyville	134.15 40	PKP			comp=Z,17nm,1.0s,baz=104,slow=5.3,SNR=73		PKPbc	PKPbc	20 30 39.5	+1.0		
TXAR	comp=Z,1.6nm,0.9s,baz=264,slow=1.3,SNR=73	PKPbc	PKKPbc	20 30 29.5	0.0	TRQ2	Torquinst	134.72 166	PKIKP			TXAR	comp=Z,2.0nm,0.9s,baz=83,slow=3.1,SNR=3.5		SKPbc	SKKbc	20 43 04.2	+0.9	
TXAR	comp=Z,2.0nm,0.9s,baz=83,slow=3.1,SNR=3.5	SKPbc	SKKbc	20 43 04.2	+0.9	BO01	Tunca	134.95 154	PKP			TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
NRS	Narsarsuaq 124.76 358 P	PKP		20 29 37.0	-0.9	PS2A	Corning	135.20 37	PKP			NRS	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
IVI	Ivigut 124.76 358 P	PKP		20 29 36.7	-1.3	MT01	Popeta	135.32 154	PKP			TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
TBS	Thunder Bay 125.46 32	PKP		20 29 42.3	0.0	GS2A	Bipetwa	135.55 37	PKP			NRS	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
WMOK	Wichita Mounta 126.10 51	PKP		20 29 39.5	-1.9	Y49A	Blount Mountai	135.75 46	PKP			TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
WMOK	Wichita Mounta 126.10 51 PKIKP	PKP		20 29 39.5	-1.9	DB19	Dombokro	135.89 274	PKHKP			TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
OK052	Battle Ridge R 127.14 49	PKP		20 29 42.8	-0.5	DB19			eP	PKIKP		TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
ESDC	Sonsecra Array 127.22 316 PKP	PKP		20 29 44.6	+0.6	DBIC	Dimbokro	135.89 274	PKHKP			TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
ESDC	comp=Z,2.5nm,0.9s,baz=116,slow=3.0,SNR=83	PKPbc	PKKPbc	20 29 44.6	+0.6	DBIC			eP	PKIKP		TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
ESDC	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83	PKPbc	PKKPbc	20 29 44.6	+0.6	DBIC			eP	PKIKP		TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
ESDC	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83	PKPbc	PKKPbc	20 29 44.6	+0.6	DBIC			eP	PKIKP		TXAR	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83		PKPbc	PKPbc	20 43 04.2	+0.9	
ESDC	comp=Z,2.7nm,1.1s,baz=18,slow=3.0,SNR=83	PKPbc	PKKPbc	20 29 44.6	+0.6	DBIC			eP	PK									

Table with columns for station name, frequency, power, and other technical details. Includes stations like SJG, CELP, NBCL, ITTB, PRPB, BAUV, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like LPAZ, LPAB, LPAB, LPAB, LPAB, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like SCHQ, SCHQ, MAJ01, PBO1, ITAB, MVO, MVO, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like BORG, POST, ULM, AMTX, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like MOX, LAO, RANJ, MYKA, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like OSTC, VRAC, DPC, FWMY, etc.

Table with 14 columns: Station Name, Elevation, Frequency, Band, Power, Azimuth, and other parameters. Rows include stations like FINES, MNK, MNL, etc., and columns for elevation (m), frequency (MHz), band, power (dBm), azimuth, and other technical details.

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Bias, Elevation Bias, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Rate Error, Elevation Bias Rate Error.

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Bias, Elevation Bias, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Rate Error, Elevation Bias Rate Error.

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Rate Error, Elevation Rate Error, Azimuth Bias, Elevation Bias, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Rate Error, Elevation Bias Rate Error.

NIED 14 20:54:45.4, 32°24'N, 132°13'E, h18km, MW4.2 Moment Tensor Solution. s3 Moment tensor: Scale 1015N; Mn:0.75, Mw:0.29, Ms:0.46, Ml:1.08, Mb:0.61, Mv:1.68; Fault plane solution: Ms2:18000x1015 NP1: phi=234.00000, delta=812.00000, lambda=111.00000. NP2: phi=33.00000, delta=878.00000, lambda=85.00000. JMA 14 20:54:45.4, 0.1, 32°22'N, 0°3'132°1E, 0.3, h18km, 1km, MD4/1/39, MV4/3/39, HYUGANADA REGION. JMA Felt II J1 at HYUGANADA REGION. NEIC 14 20:54:47.8, 1.6, 32°23'N, 132°13'E, 0.06, h48km, 9km, mb4, 4/1, Error ellipse: s-maj=9.6km s-min=7.4km. IDC 14 20:54:49.2, 1.7, 32°28'N, 132°14'E, h69km, 13km, mb3.5/14, mbmp3.8/17, Error ellipse: s-maj=21.7km s-min=13.9km az=64.0. ISC 14 20:54:46.3, 0.6, 32°26'N, 0°4'132°05'E, 0.03, h39km, 2km, n76, e179/70, mb3.9/21, 14D, Shikoku

14d 21h

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like Nakatsu, Kubokawa, Tashimi, Tamana, etc.

2019 JUN

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like CCIG, TGIG, TGIG, TGIG, etc.

776

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like URZ, URZ, URZ, URZ, etc.





14d 22h

Table of astronomical observations for 14 days and 22 hours, including station names like Pedras Altas, Paso Flores, Itaquí, and various coordinates and observation times.

2019 JUN

Table of astronomical observations for June 2019, listing station names, coordinates, and observation details for various stations like THIG, PATR, PAVE, etc.

778

Table of astronomical observations for station AKTO Aktyubinsk, listing coordinates, observation times, and results for stations like BELG, AB31, KURBB, etc.

Table with columns: GMAL, SOCE, COVE, COVE, ACONE. Rows: Guarumal, Vera, Pocosol, Coope Vega, Sa, Coope Vega, Sa, Acopya.

IDC 14 22:42:50.7, 1.8, 6.53S, 130.24E, h0km, mb3.7/2, mbmp3.9/6, ML4.0/4, Error ellipse: s-maj=56.9km s-min=24.8km az=84.0

NEIC 14 22:43:05.7, 2.3, 7.02S, 0.08x129.62E:0.7, h127km, 17km, mb4.2/3, Error ellipse: s-maj=11.7km s-min=9.9km az=183.0

ISC 14 22:43:05.4, 0.8, 7.15S, 0.07x129.66E:0.06, h139km, n20, c28/26, mb3.8/3, Banda Sea

Main station list table for the first section, including columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC.

IDC 14 22:48:53.2, 1.4, 1.96N, 127.49E, h0km, mb3.9/6, mbmp3.9/6, Error ellipse: s-maj=106.6km s-min=18.2km az=68.0

NEIC 14 22:49:08.2, 0.8, 1.8N, 0.1x127.46E:0.09, h124km, 12km, mb4.0/7, Error ellipse: s-maj=21.6km s-min=13.3km az=169.0

ISC 14 22:49:06.3, 1.2, 1.8N, 0.1x127.41E:0.09, h112km, n18, c138/19, mb4.1/1, Halmahera

Main station list table for the second section, including columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC.

SOME 14 22:50:18.3, 39.92N, 69.85E, h10km, KRNET 14 22:50:19.1, 0.1, 39.95N, 69.58E, h16km, mb2.5

ISC 14 22:50:18.2, 1.9, 39.93N, 0.05x69.55E:0.08, h14km, 13km, n9, c197/17, 10C-4D, Tajikistan

Main station list table for the third section, including columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC.

NEIC 14 22:59:33.0, 3.0, 40.22N, 0.01x124.17W:0.03, h10km, 1km, Error ellipse: s-maj=4.6km s-min=2.7km az=241.0

NCEDC 14 22:59:33.2, 2.5, 40.23N, 0.02x124.17W:0.05, h12km, 4km, Md2.9/34, ML2.8/63(NEIC), Error ellipse: s-maj=6.3km s-min=2.7km az=70.0, Near coast of northern California

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC.

PETL Petrolia, 0.14 294, Op, ISC, 22 59 37.0 +0.4

KMPM Mount Pierce, 0.19 12, Sg, P, 22 59 37.8 +0.3

BRIC Briceland Vine, 0.24 119, Sg, P, 22 59 39.0 -0.5

KCTM Capetown, 0.28 333, Sg, P, 22 59 40.0 -0.2

KMRM Mail Ridge, 0.35 91, P, 22 59 41.0 -0.5

KJCC Jacoby Creek, 0.60 10, IAML, S, 22 59 46.7 -0.4

KIPM Iron Peak, 0.68 128, P, 22 59 46.5 +0.1

KCPM Cahto Peak, 0.71 140, P, 22 59 46.7 -0.3

KKHM Kettle Mountain, 0.73 27, P, 22 59 47.8 -0.1

KBNM Blunose Ridge, 0.82 114, P, 22 59 49.0 -0.2

KKFM Farley Peak, 0.82 135, P, 22 59 48.2 -0.9

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

KKHM Hayfork Bally, 0.84 59, IAML, P, 22 59 49.1 -0.5

MDD 14 23:34:24.1, 0.7, 35.51N, 0.76W, h30km, mb, Lg3.2/27, Error ellipse: s-maj=6.0km s-min=4.0km az=159.0

ISC 14 23:34:21.5, 1.4, 35.50N, 0.04x0.71W:0.04, h30km, 15km, n88, c1876/114, Northern Algeria

Main station list table for the fourth section, including columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC.

CRAAG 14 23:34:19.6, 35.35N, 0.63W, M13.5, Algeria 08km SE Tamzoura

CNRM 14 23:34:21.2, 35.44N, 0.71W, h40km, ML2.8

INMG 14 23:34:22.7, 1.6, 35.51N, 0.68W, h25km, 22km, ML2.2

Error ellipse: s-maj=15.6km s-min=5.8km az=144.0, \*DIST\_RANGE: REGIONAL #IFMA\_REGION: NW Algeria (ALG)

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like PARRA, MVO, PVIS, EALK, ELAN, etc.

SNET 14 23:35:01.3:0.8, 13.04N:89.02W, h47km, 9km, ML3.7
CGG 14 23:35:01.7:0.3, 13.13N:89.04W, h52km, 4km, MD4.1
CATAC 14 23:35:01.0:0.5, 13.13N:89.04W, h38km, 5km, M3.5/17,
MLV3.5/17, Error ellipse: s-maj=11.8km s-min=3.4km
az=30.2, confirmed

Main station list table for the first section, including stations like ALJI, LALI, LALI, TECO, etc.

IDC 15 00:14:47.0:14.0, 14.17N:88.32W, h0km, mb3.4/3,
mbtmp3.5/3, MS3.3/4, Error ellipse: s-maj=432.9km
s-min=111.7km az=22.0

CATAC 15 00:14:50.2:0.7, 13.13N:89.11W, h6km, 4km, M3.6/11,
MLV3.6/11, Error ellipse: s-maj=7.8km s-min=5.3km
az=27.8, confirmed

CGG 15 00:14:51.3:0.6, 12.84N:90.75W, h29km, MD4.8
SNET 15 00:14:53.9:0.9, 13.06N:90.65W, h18km, 7km, ML3.4
ISC 15 00:14:55.2:1.5, 13.00N:0.008:90.63W:0.06, h24km, n47,
+123/46, MS3.4/4, Off coast of central America

Main station list table for the second section, including stations like FAME, NUBE, NUBE, etc.

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like SCHQ, FRB, SFJD, ILAR, NOA.

IDC 15 00:17:41.6:54.0, 19.40S:176.10W, h0km, mb4.0/3,
mbtmp4.0/3, Error ellipse: s-maj=1010.0km
s-min=172.1km az=82.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like STKA, ASAR, WRA.

IDC 15 00:32:34.7:7.6, 40.95N:140.87E, h0km, mb3.7/6,
mbtmp3.6/7, ML3.0/1, Error ellipse: s-maj=188.5km
s-min=35.6km az=172.0

JMA 15 00:32:46.9:0.1, 40.77N:0.3:140.9E:0.6, h110km,
MV2.5/34, EASTERN ACOMORI PREF

ISC 15 00:32:46.6:0.9, 40.73N:0.05:140.92E:0.09, h113km, 6km,
n19, +057/26, mb3.6/6, Eastern Honshu

Main station list table for the third section, including stations like JTM, JANG, JANG, etc.

KRNET 15 00:42:38.9:0.1, 43.13N:77.43E, h12km, mb2.4
NNC 15 00:42:38.5:0.3, 43.14N:77.44E, h0km, mb2.0, mpv2.9,
Error ellipse: s-maj=3.3km s-min=1.5km az=0.0

SOME 15 00:42:39.3, 43.15N:77.42E, h15km
ISC 15 00:42:38.7:0.9, 43.14N:0.02:77.44E:0.02, h12km, 8km,
n29, +044/56, 9C-9D, Lake Issyk-Kul region

Main station list table for the fourth section, including stations like KOTS, KOTS, KOTS, etc.

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like DJR, DJR, DJR, etc.

IDC 15 00:46:04.9:2.5, 20.44S:69.18W, h102km, 22km, mb3.5/7,
mbtmp3.8/11, MS2.3/1, Error ellipse: s-maj=26.9km
s-min=19.7km az=61.0

SJA 15 00:46:04.9:0.7, 20.12S:69.22W, h102km, 2km, ML4.0,
MV3.9

GUC 15 00:46:06.3:0.8, 20.12S:69.22W, h91km, 3km, ML3.9
NEIC 15 00:46:06.4:1.5, 20.12S:0.02:69.13W:0.07, h95km, 5km,
s-min=1.5, 9L(GUC), Error ellipse: s-maj=10.0km
s-min=2.2km az=87.0

ISC 15 00:46:05.5:6.2, 20.13S:0.03:69.19W:0.05, h97km, 5km,
n76, +154/99, 12D, Northern Chile

Main station list table for the fifth section, including stations like PB08, PB08, PB08, etc.

# 781

BO01	Tunca	14.31 186	Pn	Pn	00 49 23.9 +0.3
BO02	Sierra Bellavii	14.68 185	P	P	00 49 30.1 +1.7
ATAH	Atahualpa	15.70 324	P	P	00 49 45.9 +2.1
comp-Z: 1.4nm,0.5s,baz=118,slow=16,SNR=1.6					
ITAB	Concordia	17.14 118	P	P	00 50 00.1 +0.8
comp-Z: 1.1nm,0.7s,baz=230,slow=13,SNR=1.6					
PLTB	Pedras Altas	18.16 133	P	P	00 50 10.5 +0.1
BDFB	Brasilia	20.63 81	P	P	00 50 37.4 -0.2
comp-Z: 1.3nm,0.7s,baz=154,slow=9,SNR=2.4					
BOAV	Boa Vista	23.94 22	P	P	00 51 10.0 -0.9
comp-Z: 3.5nm,0.7s					
RUSC	La Rusia	26.14 351	P	P	00 51 31.4 0.0
comp-Z: 2.1nm,1.0s					
FW14	Alvarado	58.70 332	P	P	00 55 53.5 +0.3
TXAR	Lajitas Array	59.36 325	P	P	00 55 57.6 -0.2
comp-Z: 2.0nm,1.0s,baz=154,slow=5.9,SNR=2.4					
DBIC	Dimbokro	68.60 74	P	P	00 56 59.6 +1.0
comp-Z: 1.9nm,0.6s,baz=216,slow=8.7,SNR=1.4					
NVAR	Minia Array Bea	74.26 322	P	P	00 57 33.2 +0.7
comp-Z: 0.4nm,0.7s,baz=116,slow=17,SNR=3.7					
TORD	Tordi Ar Bea	77.14 71	P	P	00 57 46.9 -2.2
comp-Z: 0.9nm,0.3s,baz=124,slow=5.3,SNR=1.6					
VNDA	Vanda	78.15 190	P	P	00 57 49.7 -4.0
comp-Z: 0.6nm,0.7s,baz=135,slow=4.3,SNR=4.0					
YKA	Yellowknife Ar	89.81 341	P	P	00 58 52.8 0.0
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1S12	WAKE ISLAND Hy27.44 278	T	T	03 24 46.8	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1S11	WAKE ISLAND Hy27.44 278	T	T	03 24 46.8	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1S13	WAKE ISLAND Hy27.44 278	T	T	03 24 45.9	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1N13	WAKE ISLAND Hy27.44 280	T	T	03 24 51.3	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1N12	WAKE ISLAND Hy27.50 280	T	T	03 24 50.5	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
H1N11	WAKE ISLAND Hy27.50 280	T	T	03 24 50.5	
comp-Z: 1.2nm,0.8s,baz=138,slow=3.8,SNR=6.4					
WRA	Warramunga Arr	133.99 211	PKP	PKPdf	01 05 11.8 -0.6
comp-Z: 2.0nm,1.4s,baz=154,slow=6.8,SNR=2.5					
MKAR	Makanchi Arr	144.67 35	PKP	PKPab	01 05 29.1 -0.7
comp-Z: 0.3nm,0.4s,baz=135,slow=3.3,SNR=6.2					

# 2019 JUN

DAV	Davao City (W)	61.10 287	LR	LR	01 39 31.8
comp-Z: 1.16nm,16.7s,baz=168,slow=34					
NWAO	Narogin (SRO)	61.59 241	LR	LR	01 39 43.7
comp-Z: 2.57nm,21.4s,baz=106,slow=34					
KAPI	Kappadocia	62.90 272	LR	LR	01 40 49.4
comp-Z: 2.93nm,19.9s,baz=89,slow=35					
VNDA	Vanda	63.05 185	P	P	01 14 55.2 +1.5
comp-Z: 1.5nm,1.0s,baz=2.6,slow=8.3,SNR=4.2					
VNDA	Vanda	63.05 185	P	P	01 38 07.5
comp-Z: 2.54nm,20.8s,baz=12,slow=32					
MJAR	Matsushiro Arr	66.74 322	P	P	01 15 21.7 +3.4
comp-Z: 3.1nm,1.0s,baz=151,slow=11,SNR=2.5					
SHEM	Shemya Is, Ala	68.27 354	LR	LR	01 42 26.3
comp-Z: 7.1nm,18.6s,baz=296,slow=33					
JNU	Nakatsue	69.29 315	LR	LR	01 41 20.9
comp-Z: 2.98nm,18.6s,baz=140,slow=31					
ASAJ	Asakawa	69.75 330	LR	LR	01 40 00.1
comp-Z: 1.35nm,21.8s,baz=133,slow=30					
PETK	Petroavlovsk-	71.62 344	P	P	01 15 50.8 +2.6
comp-Z: 2.2nm,10.0s,baz=146,slow=9.9,SNR=4.9					
PETK	Petroavlovsk-	71.62 344	P	P	01 42 06.6
comp-Z: 2.10nm,20.5s,baz=156,slow=32					
KSR5	Korea Array	73.75 317	P	P	01 16 05.4 +4.2
comp-Z: 7.0nm,0.7s,baz=102,slow=6.3,SNR=1.4					
QSPA	South Pole Qui	74.65 180	P	P	01 16 06.1 -0.1
QSPA	South Pole Qui	74.65 180	P	P	01 16 14.9
QSPA	South Pole Qui	74.65 180	P	P	01 16 06.0 -0.2
comp-Z: 2.2nm,1.4s					
QSPA	South Pole Qui	74.65 180	P	P	01 44 09.7
comp-Z: 2.9nm,0.9s,baz=105,slow=1.9,SNR=10					
USRK	Ussuriysk Ar.	75.33 325	LR	LR	01 43 48.5
comp-Z: 1.23nm,20.6s,baz=64,slow=32					
PFO	Pinyon Flats O	75.49 49	LR	LR	01 43 15.4
comp-Z: 1.36nm,21.6s,baz=128,slow=31					
KDAD	Kodiak Island	75.66 13	LR	LR	01 43 34.7
comp-Z: 1.65nm,18.3s,baz=135,slow=31					
YBH	Yreka Blue Hor	75.73 39	LR	LR	01 42 02.8
comp-Z: 1.19nm,20.8s,baz=243,slow=30					
LPIG	La Paz	76.02 60	LR	LR	01 44 50.0
comp-Z: 2.59nm,18.1s,baz=208,slow=32					
DSP	Deep Springs	76.35 45	P	P	01 16 16.8 +0.7
comp-Z: 2.8nm,1.2s					
NVAR	Minia Array Bea	76.69 44	P	P	01 16 18.9 +0.5
NVAR	Minia Array Bea	76.69 44	P	P	01 16 20.1 +1.7
comp-Z: 0.8nm,0.7s,baz=224,slow=10,SNR=7.9					
NVAR	Minia Array Bea	76.69 44	P	P	01 46 20.4
comp-Z: 2.88nm,18.1s,baz=210,slow=33					
NJ2	Nanjing	77.41 308	eP	P	01 16 22.4 +0.1
comp-Z: 2.9nm,0.8s					
KLR	Kuldur	78.66 329	LR	LR	01 46 29.0
comp-Z: 6.0nm,0.5s					
MA2	Magadan	79.15 344	LR	LR	01 47 00.8
comp-Z: 1.00nm,20.3s,baz=151,slow=32					
BBB	Bella Bella	79.49 28	LR	LR	01 44 59.4
comp-Z: 1.05nm,20.6s,baz=136,slow=32					
J18K	Innokov River	80.17 9	P	P	01 16 36.0 -0.7
comp-Z: 1.41nm,19.5s,baz=188,slow=31					
J20K	Novitina River	81.25 10	P	P	01 16 42.9 +0.4
comp-Z: 5.7nm,0.8s					
NEW	Newport	82.69 36	LR	LR	01 46 06.6
comp-Z: 9.7nm,1.5s					
CCB	Clear Creek Bu	82.85 12	Iamb	Iamb	01 47 12.6
comp-Z: 1.36nm,20.6s,baz=213,slow=32					
DLBC	Dease Lake	83.00 23	LR	LR	01 47 12.6
comp-Z: 2.9nm,1.4s					
ILAR	Ilsele Array	83.15 13	P	P	01 16 52.8 +0.4
comp-Z: 0.9nm,0.9s,baz=228,slow=5.8,SNR=7.9					
ILAR	Ilsele Array	83.15 13	P	P	01 47 04.4
comp-Z: 1.03nm,21.3s,baz=232,slow=31					
POKR	Poker Plat Res	83.34 12	P	P	01 16 52.8 -0.6
comp-Z: 2.9nm,0.9s					
ANMO	Albuquerque	83.48 15	LR	LR	01 45 58.9
comp-Z: 0.8nm,1.1s					
TXAR	Lajitas Array	83.52 57	P	P	01 16 56.0 +0.7
comp-Z: 2.16nm,21.2s,baz=136,slow=30					
TXAR	Lajitas Array	83.52 57	P	P	01 46 50.5
comp-Z: 0.6nm,0.9s,baz=122,slow=4.4,SNR=6.0					
S22A	4UR Ranch, Cre	84.35 49	P	P	01 16 59.6 +0.1
comp-Z: 2.59nm,20.0s,baz=228,slow=30					
S22A	4UR Ranch, Cre	84.35 49	P	P	01 17 08.2
comp-Z: 0.6nm,0.9s					
BELA	Belgrano 2	84.47 173	P	P	01 16 58.8 -0.4
comp-Z: 6.4nm,1.2s					
BELA	Belgrano 2	84.47 173	P	P	01 17 06.2
comp-Z: 2.5nm,1.1s					
YHL	Hebgen Lake	84.51 41	P	P	01 17 01.7 +1.4
comp-Z: 5.9nm,1.1s					
PDAR	Pinedale Array	84.61 43	P	P	01 17 00.2 -0.5
comp-Z: 2.7nm,1.2s					
PDAR	Pinedale Array	84.61 43	P	P	01 47 16.2
comp-Z: 0.6nm,0.8s,baz=202,slow=1.6,SNR=5.3					
XLT	XilinHaoTe	84.77 318	eP	P	01 16 57.8 -3.5
comp-Z: 6.5nm,21.0s,baz=244,slow=30					
XLT	XilinHaoTe	84.77 318	eP	P	01 17 05.0 +0.3
comp-Z: 0.6nm,0.8s					
MNHN	Monahans	84.97 56	P	P	01 17 03.2 +0.6
comp-Z: 2.6nm,0.8s					
MNHN	Monahans	84.97 56	P	P	01 17 12.5
comp-Z: 3.4nm,0.9s					
PMSA	Palmer Station	85.58 157	LR	LR	01 45 36.6
comp-Z: 2.89nm,20.8s,baz=230,slow=29					
HHC	Hu-ho-hao-te	86.49 314	eP	P	01 17 10.4 +0.4
comp-Z: 8.0nm,0.5s					
HHC	Hu-ho-hao-te	86.49 314	eP	P	01 17 10.4 +0.4
comp-Z: 8.0nm,0.5s					
HHC	Hu-ho-hao-te	86.49 314	eP	P	01 17 10.4 +0.4
comp-Z: 8.0nm,0.5s					
HHC	Hu-ho-hao-te	86.49 314	eP	P	01 17 10.4 +0.4
comp-Z: 8.0nm,0.5s					
MAW	Mawson	86.67 199	LR	LR	01 53 31.8
comp-Z: 2.10nm,20.6s					
USHA	Ushuaia	87.86 14	LR	LR	01 46 17.8
comp-Z: 1.62nm,18.4s,baz=192,slow=34					
H03S2	Juan Fernandez	88.09 124	T	T	02 54 31.4
comp-Z: 0.9nm,0.9s,baz=228,slow=5.8,SNR=7.9					
H03S3	Juan Fernandez	88.10 124	T	T	02 54 34.6
comp-Z: 2.5nm,21.0s,baz=244,slow=30					
H03S3	Juan Fernandez	88.11 124	T	T	02 54 33.3
comp-Z: 2.5nm,21.0s,baz=244,slow=30					
INK	Inuvik	89.12 15	LR	LR	01 49 54.1
comp-Z: 2.87nm,21.9s,baz=204,slow=31					
CMAR	Chiang Mai Arr	89.32 289	P	P	01 17 25.0 +1.2
comp-Z: 0.8nm,0.3s,baz=112,slow=9.5,SNR=1.3					
CMAR	Chiang Mai Arr	89.32 289	P	P	01 53 22.8
comp-Z: 2.91nm,21.5s,baz=120,slow=33					
YKA	Yellowknife Ar	91.50 24	LR	LR	01 52 30.3
comp-Z: 0.8nm,0.3s					
PLCA	Paso Flores	92.07 133	LR	LR	01 50 47.3
comp-Z: 2.65nm,20.0s,baz=250,slow=32					
SNA4	Sanae	93.06 178	P	P	01 17 39.8 -0.6
SNA4	Sanae	93.06 178	P	P	01 17 40.1 -0.2
comp-Z: 2.8nm,1.1s,baz=179,slow=3.5,SNR=4.1					
TIXI	Tiksi	94.08 345	LR	LR	01 57 58.6
comp-Z: 2.8nm,1.1s					
JTS	Las Juntas de	94.81 81	LR	LR	01 49 28.8
comp-Z: 7.0nm,18.8s,baz=190,slow=34					
ULM	Lac du Bonnet	96.13 40	LR	LR	01 54 50.2
comp-Z: 2.7nm,21.4s,baz=229,slow=29					
ATAH	Atahualpa	96.36 99	LR	LR	01 51 29.5
comp-Z: 1.85nm,20.3s,baz=262,slow=31					
NNA	Nana	96.44 104	LR	LR	01 51 28.1
comp-Z: 2.34nm,21.1s,baz=254,slow=29					
BRDH	Bariadhala	97.22 292	LR	LR	01 59 23.9
comp-Z: 3.9nm,21.3s,baz=234,slow=29					
STHS	Stebelia Huta	98.12 340	PKP	PKPdf	01 24 01.3 +0.8
MORC	Moravsky Array	143.72 344	PKP	PKPdf	01 24 01.7 -0.2
BRTR	Keskin Berou B	143.89 318	PKP	PKPdf	01 24 02.7 +0.1
comp-Z: 0.5nm,0.7s,baz=90,slow=2.9,SNR=4.4					
VRAC	Vranov	144.40 345	ePKP	PKPdf	01 24 04.5 +1.5
comp-Z: 2.8nm,1.1s					
VYHS	Yytine	144.51 342	ePKP	PKPdf	01 24 03.7 +0.4
comp-Z: 2.8nm,1.1s					

# 15d 1h

JAVC	Velka Javorina	144.52 343	ePKP	PKPdf	01 24 05.0 +1.7
KRUC	Moravsky	144.67 345	ePKP	PKPdf	01 24 05.1 +1.6
MEM	Membrach	147.19 357	ePKP	PKPdf	01 24 03.8 +0.1
MODS	Motra-Piesok	147.07 343	ePKP	PKP	01 24 06.8 -1.3
DOU	Dourbes	145.36 358	ePKP	PKP	01 24 04.0 -0.5
GERES	GERES Array B	145.50 347	P	PKPab	01 24 07.0 +1.6
comp-Z: 0.9nm,0.7s,baz=348,slow=1.7,SNR=4.6					
WLF	Walferdange	145.72 356	P	PKP	01 24 05.9 +0.2
WLF	Walferdange	145.72 356	P	PKP	01 24 09.4 0.0
MMAI	Mount Meron Ar	145.82 307	ePKP	PKP	01 24 09.0 -0.8
comp-Z: 2.1nm,0.8s,baz=76,slow=3.5,SNR=5.0					
<p>                     IDC 15 01:41:1.9,0.8,23.11N:122.17E,h0km,mb3.6/12,                      mbtm3.6/13,ML3.6/1,MS3.4/2, Error ellipse:                      s-maj=27.3km s-min=17.3km az=70.0                      JMA 15 01:41:13.9,0.1,23.5N:0.7,122.1E,0.6,h35km,MV4.1/17,                      TAIWAN REGION                      ASIES 15 01:41:14.7,23.46N:122.04E,h31km,ML4.4,Mw3.9,                      Moment Tensor Solution, Moment tensor: Scale 10<sup>21</sup>Nm;                      Mw=0.2; M=1.45; Mw=3.27; Mw=4.08; Mw=3.90; Mw=2.65;                      Fault plane solution: Ms=8.66/8.10/1; NP1:                      p=228,13000; s=49,86000; a=135,58000; NP2:                      p=350,41000; s=87,65000; a=9,73000; Principal axes: T                      Plg56.5310°; Azm20.4470°; N Plg33.0940°;                      Azm14.7910°; P Plg4.4450°; Azm107.6950°;                      TAP 15 01:41:14.7,23.46N:122.04E,h31km,ML4.4,C                      ISC 15 01:41:12.8,1.1,23.43N:102.12E,0.02,h12km,7km,</p>					





Table with columns: MJAR, Matsuhiro Arr, 3.89 237 Pn, Pn, 02 47 33.2 +2.5, etc.

IDC 15 02:56:14.0 1.9 6:23S: 129:88E, h0km, mb3.9/2, mbmp3.8/5, ML3.9/3, Error ellipse: s-maj=90.5km s-min=25.5km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

NOU 15 02:59:38.3, 21:40S: 121:13E, h0km, mb4.6/21, Western Australia

AUST 15 02:59:39.0, 21:40S: 121:13E, h10km, mb4.6/15, ML4.3/10, Error ellipse: s-maj=6.7km s-min=4.9km az=153.5

NEIC 15 02:59:40.9, 22:21.41S: 0:07:121.09E: 0:03, h16km, 5km, mb4.4/6, Error ellipse: s-maj=10.8km s-min=3.8km az=175.0

IDC 15 02:59:41.3, 31.5 2:16S: 121:35E, h0km, mb4.0/2, mbmp4.7/6, ML4.6/4, Error ellipse: s-maj=30.7km s-min=27.3km az=130.0

ISC 15 02:59:38.9, 0.6 2:130S: 0:06:121.16E: 0:04, h10km, n77, i=168/78, mb4.3/5, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

Table with columns: WRO, Warramunga Arr, 12.61 86 Pn, Pn, 03 02 39.7 +1.4, etc.

IDC 15 03:28:09.4 0.0 54:92S: 0:36W, h0km, mb4.2/7, mbmp4.2/8, ML3.7/1, MS3.7/19, Error ellipse: s-maj=61.3km s-min=19.1km az=81.0

ISC 15 03:28:11.0 0.0 54:95S: 0:1:03W, 3.1, h10km, n37, i=095/13, mb4.3/6, MS3.8/19, 3C, Bouvet Island region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 15 03:45:04.3 0.6 12:91S: 45:64E, h0km, mb3.9/17, mbmp3.9/18, ML4.8/2, MS3.6/13, Error ellipse: s-maj=21.9km s-min=15.4km az=90.0

NEIC 15 03:45:05.9 2.4 12:78S: 0:08:45.61E: 0:10, h10km, 1km, mb4.8/28, Error ellipse: s-maj=16.3km s-min=12.8km az=277.0

ISC 15 03:45:05.1 0.4 12:95S: 0:05:45.65E: 0:06, h10km, n99, i=2502/99, mb4.6/34, MS3.6/10, 2D, Northwest of Madagascar

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

Table with columns: OPO, Ambohidratompo, 5.78 165 Pn, Pn, 03 02 39.7 +1.4, etc.

IDC 15 03:45:05.9 2.4 12:78S: 0:08:45.61E: 0:10, h10km, 1km, mb4.8/28, Error ellipse: s-maj=16.3km s-min=12.8km az=277.0

ISC 15 03:45:05.1 0.4 12:95S: 0:05:45.65E: 0:06, h10km, n99, i=2502/99, mb4.6/34, MS3.6/10, 2D, Northwest of Madagascar

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.









Table with columns for station ID, name, coordinates, elevation, and various signal quality metrics. Includes stations like ILAR Eielson Array, P23K Montague Island, G25K Bearman Lake, etc.



Table with columns for station name, frequency, mode, and other parameters. Includes stations like MNK, MNR, MNS, etc.

Table with columns for station name, frequency, mode, and other parameters. Includes stations like MORC, VYHS, BRG, etc.

Table with columns for station name, frequency, mode, and other parameters. Includes stations like YKA, FINES, AKASG, etc.

GCG 15 04:53:43.7z 1.6, 14:17N:93.09W, h21km, 10km, MD4.3, WL3.0

MEX 15 04:53:43.0z 1.6, 14:20N:93.34W, h16km, 162km, MD4.1

CATAC 15 04:53:46.3z 0.7, 14°N, 3°9'3W, h1km, M3.6/10, MLV3.6/10, Error ellipse: s-maj=9.9km s-min=6.6km az=76.2, confirmed

ISC 15 04:53:33.0z 1.7, 13.84N:100.9341W, 0.04, h15km, 12km, n75, c181/47, Off coast of Chiapas

Table with columns for Code, Station Name, Frequency, Mode, and other parameters. Includes stations like THIG, SMCA, PATR, etc.

CATAC 15 05:20:25.2z 0.2, 12°N, 2°8'8W, h50km, M3.1/33, MLV3.1/33, Error ellipse: s-maj=5.9km s-min=1.7km

SNET 15 05:20:26.1z 0.7, 12°51'N, 87°9'7W, h27km, 3km, ML2.9

ISC 15 05:20:24.9z 1.0, 12°43'N:100.6784W, 0.04, h54km, 20km, n75, c050/97, 7C-14D, Near coast of Nicaragua

Table with columns for Code, Station Name, Frequency, Mode, and other parameters. Includes stations like POTN, CRIN, CNCH, etc.

IDC 15 04:52:15.7z 0.7, 26°90'N:140°54'E, h414km, 7km, mb3.2/14, mbTpd, 0.0/15, Error ellipse: s-maj=20.6km s-min=15.3km

JMA 15 04:52:19.6z 0.2, 27°N, 2°14'1E, h423km, MV4.8/23, W OFF OGASAWARA

ISC 15 04:52:15.4z 0.7, 26°92'N:140°2'E, 0.01, h400km, n27, c212/32, mb3.6/15, Bonin Islands region

Table with columns for Code, Station Name, Frequency, Mode, and other parameters. Includes stations like CBUJ, CJC, JCH, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like UESV Universidad de, ABCN Banco Central, SCLA Alcala de Sa, etc.

NEIC 15 05:25:37.0 0.6, 34.099N; 0.008, 116.928W; 0.009, 17km, 3km, Error ellipse: s-maj=1.1km s-min=1.0km az=196.0

PAS 15 05:25:37.5 -0.7, 34.100N; 0.007, 116.928W; 0.009, 15km, 1km, ML3.0/204, ML2.8/52(NEIC), Error ellipse: s-maj=1.1km s-min=1.0km az=212.0, Southern California

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SVD Seven Oaks Dam, BBRC Big Bear Solar, CFT Crafton Hills, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like RHC Juniper Hills, JNH Juniper Hills, BREC Barre Substati, etc.

IDC 15 05:30:47.4 1.6, 13.365S; 166.76E, h0km, mb3.8/4, mbtmp3.8/5, ML3.3/1, Error ellipse: s-maj=52.2km s-min=29.3km az=127.0

ISC 15 05:30:49.3 1.4, 13.45S; 166.76E; 0.3, h10km, n6, 1466.6, mb3.7/4, Vanuatu Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like DZM Mont Dzumac, STKA Stephens Creek, WRA Warramunga Arr, etc.

TEH 15 05:38:07.7, 32.49N; 46.93E, h8km, 54km, ISN 15 05:38:09.1, 0.6, 32.49N; 46.97E, h11km, 9km, ML3.2

ISC 15 05:38:11.4 1.1, 32.59N; 0.04, 46.99E; 0.04, h20km, n28, 1932/31, Iran-Iraq border region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like RAFI Al-Rafai, RAFI Pirpir, RAFI comp=E.452nm, 0.0s, etc.

IDC 15 05:49:18.5 0.8, 9.82N; 126.66E, h0km, mb4.1/1.1, mbtmp4.0/1.1, MS3.0/5, Error ellipse: s-maj=50.1km s-min=20.3km az=76.0

ISC 15 05:49:24.0 0.8, 9.79N; 126.55E; 0.3, h43km, n19, 083/15, mb4.0/1.2, Mindanao

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like DAV Davao City (W), KAPP Kappang, GUMO Guam, BATI Baumata, etc.

KRSC 15 06:01:53.1 1.4, 4.5529N; 165.09E, h50km, 19km, MI3.6, Komandorsky Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like BKI Bering, KBTR Krutoberegovo, KBTR Krutoberegovo, etc.

IDC 15 06:04:41.4 1.5, 39.49N; 144.23E, h0km, mb3.5/4, mbtmp3.5/4, MS2.7/1, Error ellipse: s-maj=44.7km s-min=32.7km az=80.0

JMA 15 06:04:51.2 0.1, 39.0N; 0.3; 142.7E; 0.6, h28km, 1km, MV3.7/7, E OFF IWATE PREF

ISC 15 06:04:52.0 1.8, 39.00N; 0.08, 142.7E; 0.2, h36km, 5km, n18, 0988/21, mb3.6/4, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like OFUJ Ofunato, OFUJ Miyakonagasawa, etc.

IDC 15 06:10:41.3 6.3, 10.37N; 126.04E, h268km, 68km, mb3.3/1.1, mbtmp3.9/1.2, MS3.5/2, Error ellipse: s-maj=37.1km s-min=23.6km az=50.0

ISC 15 06:10:39.3 0.9, 10.40N; 0.2; 126.0E; 0.3, h250km, n14, 1809/12, mb3.4/1.1, Philippine Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like JAY Jayapura, CMAR Chiang Mai Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC. Includes stations like KURBB Kurchatov Arra, TIXI Tiksi, ILAR Eielson Array, etc.

NDI 15 06:23:12.1±0.8, 17.10N:93.95E, h10km, ML3.8, MW3.7, mb4.0(NEIC)
IDC 15 06:23:17.3±0.9, 16.99N:93.83E, h0km, mb3.8/13, mbtmp3.8/14, ML4.0/1, Error ellipse: s-maj=40.9km s-min=16.7km az=49.0
NEIC 15 06:23:19.7±0.9, 17.10N:0.09:93.9E:0.1, h10km±2km, mb4.0/5, Error ellipse: s-maj=21.2km s-min=15.1km az=25.0

ISC 15 06:23:19.2±0.8, 17.22N:0.1:93.98E:0.09, h10km, n37, ±0.92/27, mb3.9/16, Bay of Bengal

Main table of station data for the left column, including codes like DGPR, CM31, CMAR, CHTO, etc.

NEIC 15 06:31:23.7±1.3, 6.66:29N:0.02:157.2W:0.1, h7km±10km, Error ellipse: s-maj=6.1km s-min=3.0km az=109.0
ANF 15 06:31:23.0±1.0, 6.66:30N:157.2W, h6km±1km, ML4.9/65, Error ellipse: s-maj=1.4km s-min=1.0km az=75.0
AEIC 15 06:31:23.2±1.7, 6.66:31N:0.04:157.2W:0.09, h7km±7km, ML2.6, Error ellipse: s-maj=6.1km s-min=5.1km az=160.0
ISC 15 06:31:23.2±0.9, 6.66:29N:0.02:157.2W:0.03, h11km±8km, n110, ±0.82/115, Northern Alaska

Table of station data for the left column, including codes like G19K, G19K, G19K, etc.

Main table of station data for the middle column, including codes like H19K, F20K, F18K, etc.

Main table of station data for the right column, including codes like G19K, F19K, F19K, etc.

BUI 15 06:31:35.0, 6.66:30N:157.2W, h7km, mb5.1/5, mb4.5/20, Ms4.6/9, Ms7.4/11
AEIC 15 06:31:35.8±1.5, 6.66:30N:0.01:157.2W:0.04, h6km±5km, ML4.5, mb4.6/25(NEIC), ML4.7/12(NEIC), Mw4.6/72(NEIC), Error ellipse: s-maj=2.2km s-min=2.0km az=69.0
NEIC 15 06:31:36.0±1.5, 6.66:30N:0.01:157.2W:0.04, h7km±4km, Error ellipse: s-maj=2.2km s-min=1.6km az=59.0, Moment Tensor Solution. Moment tensor: Scale 10^19Nm; Mn=6.04, M1=5.57, M2=0.47, M3=0.67, M4=5.19, M5=3.73; Fault plane solution: Ms=67000±1015, NP1: p=149.51000°, s=58.24000°, λ=51.84000°. NP2: p=273.70000°, s=84.00000°, λ=134.95000°. Principal axes: T 8.9449, P16.0000, Azm214.0000; N -0.5749, Plg32.0000, Azm307.0000; S -8.3700, Plg58.0000, Azm14.0000.
ANF 15 06:31:35.5±0.1, 6.66:31N:157.21W, h4km±1km, ML5.0/52, Error ellipse: s-maj=0.8km s-min=0.6km az=95.0
IDC 15 06:31:35.8±0.5, 6.66:44N:157.43W, h0km, mb4.0/24, mbtmp4.0/27, ML4.1/4, MS3.7/47, Error ellipse: s-maj=14.5km s-min=9.5km az=33.0
NEIC 15 06:31:36.2, 6.66:29N:157.20W, h7km, GCMT 15 06:31:36.0±0.3, 6.66:47N:157.39W:0.07, h7km, MW4.8/82, Moment Tensor Solution. s18,c22: s82,c104; Duration: 0. Moment tensor: Scale 10^19Nm; Mn=1.36±.12; Mw=0.93±.08; M2=0.43±.08; M3=1.13±.23; M4=0.84±.05; M5=0.37±.23; Best double couple: M=1.87500±0.16 NP1:p=150.0000°, s=83.0000°, λ=-18.0000°. Principal axes: p=279.0000°, s=84.0000°, λ=-118.0000°. NP2: p=17.9000°, s=84.0000°, λ=292.0000; N -2.0110, Plg60.0000, Azm147.0000; nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 15 06:31:35.3±1.0, 6.66:30N:0.01:157.15W:0.02, h5km±6km, n516, ±0.89/516, mb4.5/54, MS3.7/48, 3D, Northern Alaska

Table of station data for the right column, including codes like G19K, F19K, F19K, etc.

H17K	baz=129	1.79 221	IAML	Pn	06 32 06.2 -1.1
H17K	comp=N,5jum,1.0s				06 32 33.5
H17K	baz=38	1.79 221	P	Pn	06 32 06.4 -0.9
H17K	baz=38		S	Sn	06 32 30.0 -0.3
I20K	Naaghedeneel	1.88 142	IAML	Pn	06 32 09.0 +0.5
I20K	comp=N,8jum,0.6s				06 32 31.0
I20K	comp=E,8jum,1.2s				06 33 02.4
I20K	Naaghedeneel	1.88 142	P	Pn	06 32 08.5 0.0
I20K	baz=324,SNR=97		Sb	Sg	06 32 36.1 +0.1
H21K	Meozitna Rive	1.89 108	IAML	Pn	06 32 08.3 -0.4
H21K	comp=N,4jum,0.7s				06 32 38.9
H21K	comp=E,5jum,0.5s				06 32 41.3
H21K	Meozitna Rive	1.89 108	P	Sg	06 32 36.5 0.0
H21K	Meozitna Rive	1.89 108	P	Sg	06 32 08.1 -0.6
H21K	baz=292		Sb	Sg	06 32 36.5 0.0
E20K	Nigu River	2.00 10	P	Pn	06 32 10.9 +0.8
E20K	Nigu River	2.00 10	P	Pn	06 32 11.0 +0.8
E20K	baz=192		S	Sn	06 32 36.5 +1.0
E17K	Hottham Inlet	2.02 295	P	Pn	06 32 10.1 -0.2
E17K	Hottham Inlet	2.02 295	P	Pn	06 32 09.8 -0.6
E17K	baz=111,SNR=83		S	Sn	06 32 36.6 +0.6
D19K	Kuna River	2.23 351	IAML	Pn	06 32 14.3 +0.9
D19K	comp=N,6jum,0.8s				06 32 47.9
D19K	Kuna River	2.23 351	P	Pn	06 32 13.8 +0.4
D19K	baz=171		S	Sn	06 32 41.8 +0.5
F22K	John River	2.30 56	P	Sg	06 32 13.9 -0.4
F22K	baz=241		Sb	Sg	06 32 48.5 -1.2
G16K	Koyuk River	2.33 249	P	Pn	06 32 12.9 -1.7
G16K	baz=64		Sb	Sb	06 32 48.1 +0.9
G22K	Bettles	2.34 72	P	Pn	06 32 14.2 -0.6
G22K	baz=257		Sb	Sg	06 32 49.8 -0.9
H22K	Ishlaitina Cre	2.39 97	P	Pn	06 32 15.9 +0.4
H22K	Ishlaitina Cre	2.39 97	P	Pn	06 32 15.2 -0.3
H22K	baz=282		Sb	Sb	06 32 50.9 +2.0
J19K	Poorman	2.41 164	IAML	Pn	06 32 15.9 +0.2
J19K	Poorman	2.41 164	IAML	Pn	06 32 54.1
J19K	comp=N,2jum,0.5s		P	Pn	06 32 15.0 -0.7
J19K	comp=N,2jum,0.5s		Sb	Sb	06 32 51.2 +1.7
D20K	Etiwuk River	2.43 5	P	Pn	06 32 15.8 -0.3
D20K	baz=186		Sb	Sb	06 32 51.6 +1.5
E21K	Kiliik River	2.47 28	P	Pn	06 32 17.0 +0.3
E21K	baz=212		Sb	Sb	06 32 53.3 +1.9
J20K	Nowinta River	2.48 148	IAML	Pn	06 32 17.5 +0.8
J20K	Nowinta River	2.48 148	IAML	Pn	06 33 02.8
J20K	Nowinta River	2.48 148	P	Pn	06 32 16.3 -0.5
J20K	baz=330		Sb	Sg	06 32 53.9 -1.5
D17K	Noatak River	2.72 304	P	Pn	06 32 19.3 -0.7
D17K	Noatak River	2.72 304	P	Pn	06 32 19.6 -0.4
D17K	baz=119,SNR=41		Sb	Sb	06 32 58.4 +0.1
E22K	Anaktuvuk Pass	2.77 46	P	Pn	06 32 21.6 +0.8
E22K	baz=231		S	Sn	06 32 56.2 +1.5
C18K	Utukok River	2.82 328	IAML	Pn	06 32 21.6 +0.1
C18K	comp=N,2jum,1.6s				06 33 14.0
C18K	Utukok River	2.82 328	P	Pn	06 32 21.0 -0.5
RDGK	Red Dog Mine	2.85 311	P	Pn	06 32 21.1 -0.8
RDGK	Red Dog Mine	2.85 311	P	Pn	06 32 21.3 -0.5
RDGK	baz=126		S	Sn	06 32 56.4 -0.1
I17K	Unalakleet	2.85 213	IAML	Pn	06 32 21.6 -0.2
I17K	Unalakleet	2.85 213	IAML	Pn	06 33 09.6
I17K	comp=N,3jum,0.7s				06 33 14.2
I17K	Unalakleet	2.85 213	P	Pn	06 32 21.4 -0.5
I17K	baz=30		Sb	Sb	06 33 03.8 +1.6
J18K	Innoko River	2.86 176	Pn	Pn	06 32 21.5 -0.4
J18K	Innoko River	2.86 176	Pn	Pn	06 32 21.3 -0.6
J18K	baz=356		Sb	Sb	06 33 04.6 +2.2
G23K	Bananza Creek	2.88 79	P	Pn	06 32 21.6 -0.8
G23K	baz=265		Sb	Sb	06 33 06.0 +2.8
COLD	Coldfoot	2.91 68	IAML	Pn	06 33 13.2
COLD	Coldfoot	2.91 68	P	Pn	06 32 21.9 -0.7
COLD	baz=255,SNR=21		Sb	Sg	06 33 07.0 -2.1
MLY	Manley	2.95 113	IAML		06 33 16.1
MLY	comp=N,1jum,1.1s				06 33 22.4 -0.8
MLY	Manley	2.95 113	S	Sb	06 33 02.5 -2.5
C19K	Lookout Ridge	2.96 343	P	Pn	06 32 23.5 0.0
C19K	baz=161,SNR=25		Sb	Sb	06 33 07.0 +1.6
C21K	Knifeblade Rd	3.00 16	P	Pn	06 32 23.8 -0.2
J17K	VABM Dome	3.03 197	P	Pn	06 32 23.8 -0.5
D22K	Aiyikav River	3.10 31	Pn	Pn	06 32 26.0 +0.7
D22K	Aiyikav River	3.10 31	P	Pn	06 32 25.7 +0.4
F15K	North Star Dit	3.12 262	P	Pn	06 32 24.0 -1.5
F15K	baz=76		Sb	Sb	06 33 12.1 +2.1
H23K	Yukon River	3.14 95	P	Pn	06 32 25.7 -0.2
H23K	baz=282,SNR=54				06 32 23.7 -2.2
G15K	Niukluk	3.14 248	P	Pn	06 32 26.0 -0.3
CHUM	Lake Mmchumun	3.18 138	Pn	Pn	06 32 25.9 -0.6
C17K	DeLong Mountai	3.19 316	P	Pn	06 32 25.0 -0.6
K20K	Telida	3.24 155	P	Pn	06 32 27.3 +0.1
K20K	Telida	3.24 155	P	Pn	06 32 27.1 -0.1
J16K	Anvik River	3.37 208	P	Pn	06 32 28.6 -0.4
BPAW	Bear Paw Mtn.	3.41 128	P	Pn	06 32 30.3 +0.7
BPAW	Bear Paw Mtn.	3.41 128	P	Pn	06 32 29.6 0.0
I23K	Minto, Yukon-K	3.42 106	IAML		06 33 30.0
I23K	comp=N,2jum,1.6s				06 33 31.2

I23K	Minto, Yukon-K	3.42 106	P	Pn	06 32 29.3 -0.3
E23K	Chandalar	3.42 56	IAML		06 33 29.4
E23K	comp=N,2jum,0.8s				06 33 36.1
E23K	Chandalar	3.42 56	P	Pn	06 32 29.8 0.0
B21K	Ikkipuk River	3.47 15	Pn	Pn	06 32 29.6 -0.7
B21K	Arctic Village River	3.47 15	P	Pn	06 32 29.9 -0.3
B18K	Kokolik River	3.54 332	P	Pn	06 32 31.1 -0.3
B18K	Kokolik River	3.54 332	P	Pn	06 32 31.3 0.0
CAST	Castle Rocks	3.61 141	P	Pn	06 32 32.7 +0.4
K17K	Iditarod	3.64 188	P	Pn	06 32 32.0 -0.6
D23K	Nanushuk River	3.64 40	P	Pn	06 32 32.7 +0.1
D23K	Nanushuk River	3.64 40	P	Pn	06 32 33.1 +0.4
B20K	Meade River	3.72 360	P	Pn	06 32 33.8 +0.1
C16K	Lisburne Hills	3.74 306	IAML		06 32 33.9 -0.2
C16K	Lisburne Hills	3.74 306	IAML		06 33 38.5
C16K	comp=N,1jum,1.9s				06 33 45.1
C16K	Lisburne Hills	3.74 306	P	Pn	06 32 33.8 -0.2
TOLK	Toolik Lake Re	3.74 48	P	Pn	06 32 34.6 +0.4
TOLK	Toolik Lake Re	3.74 48	P	Pn	06 32 34.5 +0.4
NEA2	Nenana	3.79 113	P	Pn	06 32 34.4 -0.3
H24K	Noodor Dome	3.81 93	IAML		06 33 43.4
H24K	comp=N,1jum,1.1s				06 33 48.8
H24K	Noodor Dome	3.81 93	P	Pn	06 32 34.5 -0.5
E24K	You Creek	3.81 58	P	Pn	06 32 34.7 -0.4
KTH	Kantishna Hill	3.83 133	IAML		06 32 36.2 +0.8
KTH	comp=N,1jum,1.1s				06 33 55.6
KTH	comp=N,1jum,1.1s				06 33 59.5
F24K	Squaw Lake	3.85 67	Pn	Pn	06 32 35.4 -0.1
F24K	Squaw Lake	3.85 67	IAML		06 33 42.2
F24K	comp=N,917nm,1.5s				06 33 50.1
F24K	Squaw Lake	3.85 67	Pn	Pn	06 32 35.3 -0.3
ANM	Nome	3.85 247	IAML		06 32 34.6 -0.9
ANM	comp=N,1jum,0.7s				06 33 46.5
ANM	comp=N,1jum,1.3s				06 33 49.3
ANM	comp=N,1jum,1.3s				06 32 33.9 -1.7
F14K	Arctic Creek	3.86 262	P	Pn	06 32 34.3 -1.4
BWN	Browne	3.88 120	IAML		06 32 36.8 +0.8
BWN	Browne	3.88 120	IAML		06 33 53.4
BWN	comp=N,1jum,1.0s				06 33 57.9
G24K	Haseezic Riv	3.90 80	Pn	Pn	06 32 35.7 -0.5
G24K	Haseezic Riv	3.90 80	Pn	Pn	06 32 38.6 +0.4
PPLA	Purkeypile	4.03 146	IAML		06 33 50.5
PPLA	comp=N,721nm,2.2s				06 34 23.0
PPLA	Purkeypile	4.03 146	P	Pn	06 32 38.4 +0.1
TRF	Thorofare Moun	4.09 131	IAML		06 32 39.5 +0.4
TRF	Thorofare Moun	4.09 131	IAML		06 33 54.9
TRF	comp=N,966nm,1.7s				06 33 57.0
TRF	Thorofare Moun	4.09 131	Pn	Pn	06 32 39.4 +0.3
L20K	Farewell, AK	4.09 158	P	Pn	06 32 39.6 +0.6
L20K	Farewell, AK	4.09 158	P	Pn	06 32 39.2 +0.3
L18K	Granite Mounta	4.11 177	P	Pn	06 32 39.7 +0.6
L18K	Granite Mounta	4.11 177	P	Pn	06 32 39.1 0.0
COLA	College	4.12 106	P	Pn	06 32 39.6 +0.4
A19K	Wainwright	4.18 341	P	Pn	06 32 40.1 +0.1
POKR	Poker Plat Res	4.19 102	IAML		06 32 40.3 +0.1
POKR	comp=N,1jum,1.5s				06 33 50.2
POKR	Poker Plat Res	4.19 102	Pn	Pn	06 32 40.7 +0.5
WRH	Wood River Hill	4.21 112	IAML		06 32 40.5 -0.1
WRH	Wood River Hill	4.21 112	IAML		06 33 56.5
WRH	comp=N,585nm,1.7s				06 34 01.6
L17K	Donlin	4.22 187	P	Pn	06 32 40.2 -0.3
L17K	Donlin	4.22 187	P	Pn	06 32 40.3 -0.3
L19K	White Mountain	4.26 165	IAML		06 34 20.0
L19K	White Mountain	4.26 165	P	Pn	06 32 41.6 +0.4
D24K	Happy Valley	4.27 44	P	Pn	06 32 42.0 +0.8
D24K	Happy Valley	4.27 44	P	Pn	06 32 41.6 +0.3
B22K	Teshehpuk Lake	4.28 17	P	Pn	06 32 42.4 +0.9
C23K	Ikliik River	4.31 32	P	Pn	06 32 42.0 +0.2
C23K	Ikliik River	4.31 32	P	Pn	06 32 41.5 -0.3
MCK	McKinley	4.34 123	Pn	Pn	06 32 42.3 +0.1
MCK	McKinley	4.34 123	P	Pn	06 32 42.4 +0.2
G25K	Beaman Lake	4.44 79	P	Pn	06 32 44.2 +0.5
K15K	Wolf Creek Mou	4.46 207	P	Pn	06 32 43.3 -0.5
TNA	Tin City	4.47 265	Pn	Pn	06 32 44.1 0.0
TNA	Tin City	4.47 265	Pn	Pn	06 32 43.7 -0.4
J14K	Nanvaranak Lak	4.51 221	P	Pn	06 32 43.4 -1.2
IL3	Elison Array	4.54 105	Pn	Pn	06 32 45.0 +0.1
ILAR	comp=N,39nm,0.3s, baz=292,slow=14,SNR=62				06 33 37.9 -0.1
ILAR	comp=N,20nm,0.3s, baz=291,slow=22,SNR=9.2				06 33 58.0
H25L	Birch Creek	4.58 85	P	Pn	06 32 45.9 +0.4
M19K	Big River Lodg	4.58 163	P	Pn	06 32 46.3 +0.7
RND	Reindeer	4.58 126	Pn	Pn	06 32 46.0 +0.4

O22K	Cooper Landing	6.72 147	P	Pn	06 33 15.2 +0.2
PWL	Port Wells	6.73 140	P	Pn	06 33 14.6 -0.5
K27K	Chicken	6.74 103	P	Pn	06 33 15.9 +0.6
K27K	Chicken	6.74 103	P	Pn	06 33 15.3 0.0
O16K	Kokwok River B	6.75 184	P	Pn	06 33 15.2 -0.2
O16K	Kokwok River B	6.75 184	P	Pn	06 33 15.0 -0.4
L26K	Log Cabin Wild	6.77 113	P	Pn	06 33 15.3 -0.4
L26K	Log Cabin Wild	6.77 113	P	Pn	06 33 15.3 -0.4
D27M	Malcolm River	6.80 57	P	Pn	06 33 17.3 +1.2
D27M	Malcolm River	6.80 57	P	Pn	06 33 16.1 0.0
F28M	Old Crow	6.90 71	P	Pn	06 33 17.2 -0.2
F28M	Old Crow	6.90 71	P	Pn	06 33 17.8 +0.3
KLU	Klutina	6.91 129	P	Pn	06 33 18.5 +0.8
P19K	Oil Pt	6.91 163	P	Pn	06 33 18.5 +0.9
P19K	Oil Pt	6.91 163	P	Pn	06 33 17.3 -0.3
P18K	Big Mountain,	6.99 172	P	Pn	06 33 17.7 -1.0
GLI	Glacier Island	7.05 136	P	Pn	06 33 18.7 -0.8
I28M	Miner Creek	7.11 89	P	Pn	06 33 20.0 -0.3
HOM	Homer	7.12 157	P	Pn	06 33 21.0 +0.5
SEW	Seward	7.12 147	P	Pn	06 33 20.4 -0.1
P17K	Kvichak River	7.14 177	P	Pn	06 33 20.8 +0.1
P17K	Kvichak River	7.14 177	P	Pn	06 33 20.5 -0.2
E28M	Babbage River	7.15 63	P	Pn	06 33 21.2 +0.4
E28M	Babbage River	7.15 63	P	Pn	06 33 21.0 +0.2
M11K	Mekoruyuk	7.20 219	P	Pn	06 33 20.5 -0.9
BRSE	Bradley Lake S	7.20 153	P	Pn	06 33 21.1 -0.5
N25K	Chitina, Valde	7.25 125	P	Pn	06 33 22.4 +0.1
O15K	Unqalikthik R	7.26 191	P	Pn	06 33 22.3 0.0
M26K	Nabesna, AK	7.28 116	P	Pn	06 33 22.7 +0.1
P16K	Nushagak River	7.31 183	P	Pn	06 33 23.0 0.0
O14K	Tigyuquaiwet M	7.32 197	P	Pn	06 33 22.6 -0.5
L27K	Beaver Creek,	7.32 109	P	Pn	06 33 22.7 -0.6
FDK	Port Fidalgo	7.33 135	P	Pn	06 33 24.7 +1.4
BCAR	Beaver Creek A	7.34 109	P	Pn	06 33 22.7 -0.8
H29M	Whitestone	7.58 82	P	Pn	06 33 26.7 0.0
H29M	Whitestone	7.58 82	P	Pn	06 33 27.3 +0.6
O19K	Cape Douglas,	7.58 166	P	Pn	06 33 26.4 -0.4
D28M	Stokes Point	7.59 58	P	Pn	06 33 27.3 +0.6
G29M	Pine Creek	7.63 77	P	Pn	06 33 27.6 +0.2
G29M	Pine Creek	7.63 77	P	Pn	06 33 28.3 +0.8
GLB	Gilahina Butte	7.64 123	P	Pn	06 33 28.7 +1.1
EYAK	Cordova Ski Ar	7.70 133	P	Pn	06 33 28.3 -0.1
P23K	Montague Islan	7.71 341	P	Pn	06 33 28.5 +0.1
E29M	Blow River	7.71 66	P	Pn	06 33 29.0 +0.5
E29M	Blow River	7.71 66	P	Pn	06 33 27.6 -0.9
M27K	Edge Creek, AK	7.71 114	P	Pn	06 33 28.9 +0.2
M27K	Edge Creek, AK	7.71 114	P	Pn	06 33 27.7 -1.0
BMRM	Bremerton River	7.73 128	P	Pn	06 33 27.5 -1.3
O18K	Katmai Hardscr	7.75 172	P	Pn	06 33 28.5 -0.7
I29M	Ogilvie Camp,	7.79 88	P	Pn	06 33 29.0 -0.6
I29M	Ogilvie Camp,	7.79 88	P	Pn	06 33 29.0 -0.6
DAWY	Dawson	7.79 99	P	Pn	06 33 29.5 -0.2
MCARA	McCarthy VSAT	7.95 122	P	Pn	06 33 31.4 -0.4
Q20K	Shuyak Island	8.03 162	P	Pn	06 33 32.4 -0.5
SYI	Shuyak Island	8.03 162	P	Pn	06 33 33.6 +0.7
BVCY	Beaver Creek	8.06 111	P	Pn	06 33 33.2 -0.2
Q17K	Contact Creek	8.09 175	P	Pn	06 33 32.3 -1.5
J29N	Klondike Camp	8.11 94	P	Pn	06 33 34.2 +0.1
J29N	Klondike Camp	8.11 94	P	Pn	06 33 34.5 +0.4
EPYK	Eagle Plains	8.21 80	P	Pn	06 33 35.2 -0.2
G30M	1Aoh Zraii Nji	8.33 76	P	Pn	06 33 37.0 -0.1
G30M	1Aoh Zraii Nji	8.33 76	P	Pn	06 33 37.4 +0.3
CRQE	Cirque	8.38 125	P	Pn	06 33 37.6 -0.2
F30M	Barrier River	8.47 71	P	Pn	06 33 39.0 +0.1
Q23K	Middleton Isla	8.47 139	P	Pn	06 33 39.1 +0.2
KAIM	Kayak Island	8.60 132	P	Pn	06 33 40.3 -0.4
YUK3	Moose Creek	8.60 114	P	Pn	06 33 40.6 -0.3
I30M	Mount Dempster	8.60 88	P	Pn	06 33 40.4 -0.5
K29M	Barlow Dome	8.64 97	P	Pn	06 33 41.0 -0.4
K29M	Barlow Dome	8.64 97	P	Pn	06 33 41.2 -0.1
WAX	Waxell Ridge	8.68 126	P	Pn	06 33 41.5 -0.4
L29M	L29M	8.74 103	P	Pn	06 33 42.4 -0.2
L29M	L29M	8.74 103	P	Pn	06 33 43.2 +0.6
R16K	Pilot Point	8.77 181	P	Pn	06 33 42.4 -0.7
BGLC	Bering Glacier	8.80 128	P	Pn	06 33 43.9 +0.6
KDAK	Kodiak Island	8.81 164	Pn	Pn	06 33 43.0 -0.7
KDAK	comp=E, 462nm, 20.4s, baz=360, slow=34		LR	06 36 44.9	
KDAK	Kodiak Island	8.81 164	P	Pn	06 33 44.8 +1.2
CTG	Chitna Glacier	8.82 120	P	Pn	06 33 43.1 -0.8
J30M	Hart River	8.83 92	P	Pn	06 33 43.9 -0.1
J30M	Hart River	8.83 92	P	Pn	06 33 44.4 +0.4
R18K	Karluk	8.86 171	P	Pn	06 33 43.8 -0.4
M29M	Somme Creek	8.96 107	P	Pn	06 33 45.6 -0.1
M29M	Somme Creek	8.96 107	P	Pn	06 33 46.0 +0.3
G31M	Satah River	9.10 76	P	Pn	06 33 46.7 -0.8
YUK8	Steele Glacier	9.17 115	P	Pn	06 33 49.6 +0.8
F31M	Tsightgheic	9.26 72	P	Pn	06 33 49.9 +0.2
H31M	Peel River	9.27 83	P	Pn	06 33 49.0 -0.9
H31M	Peel River	9.27 83	P	Pn	06 33 49.9 0.0
O28M	Mount Upton	9.36 118	P	Pn	06 33 51.2 -0.2
YUK4	Talbot Arm	9.55 113	P	Pn	06 33 53.7 -0.2
PINK	Pinnacle	9.82 121	P	Pn	06 33 56.9 -0.6
YUK6	Outpost Mounta	9.91 114	P	Pn	06 33 59.1 +0.2
N30M	Aishihik Lake	10.06 109	P	Pn	06 34 01.6 +0.9
O29M	Mount Kennedy	10.27 117	P	Pn	06 34 04.6 +1.0
HYT	Haines Junction	10.31 113	P	Pn	06 34 05.1 +1.0

PNL	Peninsula	10.43 121	P	Pn	06 34 06.4 +0.6
N31M	Braeburn, Yuko	10.55 107	P	Pn	06 34 07.1 -0.3
N31M	Braeburn, Yuko	10.55 107	P	Pn	06 34 07.0 +0.2
M31M	Drury Creek, Y	10.68 102	P	Pn	06 34 09.9 +0.7
M31M	Drury Creek, Y	10.68 102	P	Pn	06 34 09.9 +0.7
O30N	Mendhall	10.87 111	P	Pn	06 34 11.8 -0.1
O30N	Mendhall	10.87 111	P	Pn	06 34 12.5 +0.6
P30M	Million Dollar	10.98 115	P	Pn	06 34 13.4 +0.1
SPIA	Saint Paul Isl	11.03 220	P	Pn	06 34 12.6 -1.4
FARO	Faro, Yukon	11.08 100	P	Pn	06 34 14.0 -0.7
FARO	Faro, Yukon	11.08 100	P	Pn	06 34 14.7 0.0
SDPT	Sand Point	11.11 190	P	Pn	06 34 13.9 -1.1
P08K	Saint George I	11.37 217	P	Pn	06 34 17.7 -0.9
MMPY	Sheldon Lake,	11.72 96	P	Pn	06 34 23.3 -0.1
P33M	Teslin, Yukon	12.48 108	P	Pn	06 34 33.6 -0.2
P32M	ATI	12.54 111	P	Pn	06 34 33.9 -0.8
A36M	Sachs Harbour	12.57 49	P	Pn	06 34 33.5 -1.3
A36M	Sachs Harbour	12.57 49	P	Pn	06 34 32.6 -2.3
C36M	Paulatuk	12.75 61	P	Pn	06 34 37.2 -0.2
C36M	Paulatuk	12.75 61	P	Pn	06 34 36.9 -0.5
S31K	Pelican	12.80 121	P	Pn	06 34 37.5 -0.7
Q32M	Katkin River	13.52 111	P	Pn	06 34 47.4 -0.7
R33M	Jennings River	13.72 108	P	Pn	06 34 50.0 -0.8
SIT	SIT	13.81 122	P	Pn	06 34 51.3 -0.6
WRGLY	Wrigley	14.58 86	P	Pn	06 35 02.4 +0.1
S34M	Telegraph Cree	14.68 113	P	Pn	06 35 04.4 +0.6
DLBC	Dease Lake	14.73 109	Pn	Lg	06 39 20.2
DLBC	comp=E, 0.8nm, 0.3s, baz=46, slow=24, SNR=4.0		LR	06 41 30.4	
DLBC	comp=E, 2.79nm, 19.3s, baz=323, slow=40		LR		
DLBC	comp=E, 7.6nm, 0.9s		LR		
BEAVL	Fort Liard	15.55 98	P	Pn	06 35 15.1 -0.3
T35M	Bob Quinn	15.69 114	Iamb	Iamb	06 35 25.9
T35M	Bob Quinn	15.69 114	P	Pn	06 35 17.6 +0.4
CRAG	Craig	15.82 122	P	Pn	06 35 18.6 -0.3
KOTAN	Kotanelee Air	15.99 97	P	Pn	06 35 22.1 +1.1
TOAD	Toad River Com	16.32 102	P	Pn	06 35 24.9 -0.4
V35K	Ketchikan	16.46 120	P	Pn	06 35 26.3 -0.8
YKAW3	Yellowknife Wh	18.45 82	Iamb	Iamb	06 35 55.1
YKA	Yellowknife Ar	18.49 82	P	P	06 35 52.1 -0.1
YKA	Yellowknife Ar	18.49 82	Pn	Pn	06 35 49.9 -2.3
YKA	comp=Z, 1.41nm, 18.6s, baz=266, slow=40		LR	06 44 10.2	
YKAW1	Yellowknife Wh	18.55 82	Iamb	Iamb	06 35 53.0 +0.1
YKAW1	comp=Z, 1.6nm, 1.1s		LR	06 35 57.0	
SHEM	Shemya Is, Ala	19.68 240	LR	LR	06 43 51.0
BBL	Bella Bella	20.23 120	LR	LR	06 43 52.7
RES	Resolute Bay	21.28 40	P	P	06 36 23.0 +0.5
RES	Resolute Bay	21.28 40	P	P	06 36 22.8 +0.3
RES	comp=Z, 2.3nm, 0.9s, baz=240, slow=9.1, SNR=5.8		S	S	06 40 09.2 -1.0
RES	comp=Z, 8.3nm, 1.0s, baz=341, slow=14, SNR=5.8		LR	06 46 25.2	
SEY	Seymchan	21.40 285	P	P	06 36 24.6 +0.7
SEY	comp=Z, 3.8nm, 0.6s, baz=77, slow=12, SNR=16		LR	06 44 38.2	
MA2	Magadan	23.97 279	LR	LR	06 46 53.4
BLKN	Baker Lake	24.73 66	P	P	06 36 58.4 +0.9
BLKN	comp=Z, 1.3nm, 0.7s, baz=260, slow=13, SNR=4.8		Iamb	06 36 60.0	
PETK	Petukovsk	25.63 261	P	P	06 37 05.4 -0.3
PETK	comp=Z, 1.24nm, 18.0s, baz=39, slow=37		LR	06 47 17.5	
NEW8	Colville Reser	26.56 114	P	P	06 37 14.2 0.0
BOA	Notwort	27.46 111	LR	LR	06 49 46.5
FCC	Fort Churchill	28.83 74	P	Iamb	06 37 35.7 +1.4
FCC	comp=Z, 5.2nm, 0.8s		Iamb	06 51 56.2	
YAK	Yakuts	30.48 297	LR	LR	06 51 56.1
YMP	Mirror Lake Pl	33.06 107	P	P	06 38 12.0 -0.2
YMP	comp=Z, 4.4nm, 0.9s		Iamb	06 38 47.1	
ULM	Lac du Bonnet	34.31 87	P	P	06 38 23.2 +0.6
ULM	comp=Z, 4.4nm, 0.8s, baz=325, slow=8.3, SNR=6.0		LR	06 53 53.7	
FRB	Frubisher Bay	34.55 52	LR	LR	06 54 03.8
ELK	Elko	34.59 117	LR	LR	06 53 55.3
PDAR	Pinedale Array	34.96 108	P	P	06 38 29.6 +1.0
PDAR	comp=Z, 0.6nm, 0.6s, baz=348, slow=6.7, SNR=5.7		LR	06 53 47.2	
PDAR	comp=Z, 1.89nm, 19.1s, baz=330, slow=38		LR		
PDAR	comp=Z, 0.6nm, 0.6s		LR		
SUMC	Summit	35.54 27	P	P	06 38 31.0 -2.5
NVAR	Mina Array Bea	35.57 122	P	P	06 38 35.9 +2.0
NVAR	comp=Z, 2.5nm, 0.8s, baz=312, slow=7.4, SNR=12		LR	06 53 16.5	
SPITS	Spitsbergen Ar	35.69 2	LR	LR	06 52 58.6
R11B	Troy Canyon, C	36.59 119	P	P	06 38 43.5 +1.0
SFJD	Kangerlussuaq	37.26 38	LR	LR	06 56 18.7
KLR	Kulur	39.05 280	LR	LR	06 55 58.6
SPMM	Marine on St.	39.57 89	P	P	06 39 08.1 +0.7
JMIC	Jan Mayen	41.32 15	LR	LR	06 55 43.3
SCHO	Schefferville	41.86 60	P	P	06 39 27.7 +1.5
SCHO	comp=Z, 4.5nm, 0.8s, baz=280, slow=14, SNR=2.1		LR	06 58 38.1	
N35A	Tabor	42.07 96	P	P	06 39 28.2 +0.1
USRK	Ussuriysk Ar	45.07 275	LR	LR	06 59 19.9
P40A	Paris	44.65 93	P	P	06 39 48.1 -0.7
P40A	comp=Z, 7.9nm, 1.0s		Iamb	06 39 53.4	
BORG	Borganees	45.42 25	LR	LR	06 58 54.7
SADO	Sadow	45.43 78	LR	LR	06 58 43.1
CN2	Changchun	45.99 281	P	P	06 39 48.3 -1.1
MGMO	Mountain Grove	46.59 95	P	P	06 40 03.6 -0.8
MGMO	comp=Z, 4.5nm, 0.8s		Iamb	06 40 06.3	

comp=Z, 6.3nm, 1.1s					
MJAR	Matsushiro Arr	47.03 264	P	P	06 40 08.2 +0.5
MJAR	comp=Z, 1.5nm, 0.7s, baz=8.1, slow=10, SNR=2.3		LR	LR	07 00 13.1
T42A	Van Buren	47.18 94	P	Iamb	06 40 08.5 -0.3
T42A	comp=Z, 3.9nm, 0.9s				







NNC 15 07:32:30.1±0.7, 50°04'N-78°73'E h0km, mb3.6, mpv3.2, 11C-14D, Error ellipse: s-maj=7.0km s-min=3.6km az=64.0, Suspected Mining explosion,, Eastern Kazakhstan

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like KUR07, KUR16, KUR14, etc.

TRN 15 07:36:18.3, 15°33'N-61°30'W, h12km, MD3.5, Dominica. Felt in Dominica, MMI V, VI. NEIC 15 07:36:19.5±1.0, 15°33'N-03°61'25W±0.06, h31km±10km, ML2.9/22, Error ellipse: s-maj=9.0km s-min=3.3km az=69.0

ISC 15 07:36:18.4±0.8, 15°33'N-02°61'31W±0.05, h17km±4km, n34, ±125/47, Leeward Islands

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like DLPL, DRTD, MDN, etc.

NEIC 15 07:42:18.9±0.3, 37°64'N-105°50'W±0.02, h5km±1km, ML1.4/14, Error ellipse: s-maj=3.1km s-min=2.6km az=261.0, Colorado

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like SDCO, Great Sand Dun.

Table with columns: SDCO, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like T25A, S22A, Q24A.

IDC 15 07:52:27.7±4.0, 36°13'N-71°00'E, h94km±35km, mb3.6/15, mbmp4.0/20, MS3.1/2, Error ellipse: s-maj=24.2km s-min=16.4km az=21.0. MOS 15 07:52:28.5±1.0, 36°22'N-70°96'E, h107km, mb4.3/7, Error ellipse: s-maj=12.7km s-min=6.0km az=85.6. NEIC 15 07:52:29.6±1.6, 36°21'N-04°70'80E±0.08, h109km±7km, mb4.3/23, Error ellipse: s-maj=9.3km s-min=4.4km az=71.0. NNC 15 07:52:33.1±2.3, 36°59'N-70°72'E, h102km±45km, mb3.9, mpv4.2, Error ellipse: s-maj=19.9km s-min=17.2km az=131.0. ISC 15 07:52:29.0±0.4, 36°15'N-0°05'71.06E±0.05, h102km, n113, ±216/128, mb4.0/27, 7C-10D, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like KBL, GARS, NIL, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like AKTO, HYB, ZAAO, ZALV, GNI, ARTI, KURV, etc.

Table with columns: MATW, MOTS, TKNZ, etc. Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Motueka DOC, Takaka Hill, Karamea School, etc.

Table with columns: ASAR, TRN, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Alice Springs, Warramunga Arr, etc.

Table with columns: T25A, S22A, S22A, etc. Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Ashorobuto, Rauau, etc.

Table with columns: JMA, IDC, ISC, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Yamaगतataniai, Wachi, etc.

Table with columns: ASAR, WRA, SNA, FINES, NOA, HFS, etc. Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Alice Springs, Warramunga Arr, etc.

Table with columns: JAR, JAR, JAR, etc. Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Ashorobuto, Rauau, etc.

15d 8h

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like UNKAWA-nobuka, Kamikawa-asahi, and various YSS and YUV stations.

2019 JUN

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like Ungalikthiuk R, KIWALIK MOUNTA, CHINA, and various L16K, H17K, and M16K stations.

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Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like AYIKYAK RIVER, KODIAK ISLAND, SHUYAK ISLAND, and various Q20K, E22K, and SKT stations.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like N25K, J26L, BMRM, I26K, KURK, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like C36M, Q32M, R33M, U33K, ARSB, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like AKASG, AKKB, PDAR, CLL, etc.





Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like SNZO, BHW, PLW, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like WRA, SNAH, KRSR, etc.

CATAC 15 10:24:06.4-0.6, 13°14'x9°1'W, h1km, M3.3/12, MLV3.3/12, Error ellipse: s-maj=8.5km s-min=4.6km

CGC 15 10:24:07.4-2.1, 12°78'N, 91°14'W, h4km, 49km, MD4.0, ISC 15 10:24:11.3-2.6, 12.8N, 0.1-91.11W, 0.07h, h33km, n33, n139/35, Off coast of Central America

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like FAME, SLOZ, RTAL, etc.

UCR 15 10:25:03.5-1.1, 10°20'N, 86°41'W, h5km, 8km, MW3.7, CATAC 15 10:25:03.3-0.0, 10°N, 4°8'W, h1km, M3.4/24, MLV3.4/24, Error ellipse: s-maj=10.2km s-min=3.2km

ISC 15 10:25:02.4-1.8, 10°20'N, 0°06.86'W, h6km, 12km, n79, n059/86, Off coast of Costa Rica

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like SACU, ALIBA, ELI1, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like ARE1, VACR, NANN, etc.

15 10:32:32.7-1.6, 35°39'N, 27°73'E, h0km, mb3.7/6, mbtmp3.5/9, ML2.8/3, MS3.1/5, Error ellipse: s-maj=35.7km s-min=19.6km az=149.0

NIC 15 10:32:35.3, 35°25'N, 27°75'E, h20km, 1km, M3.4/12, ATH 15 10:32:36.6, 35°37'N, 27°74'E, h11km, 4km, ML3.5/6

10:34:01, This location: 2019/06/15 13:27:03 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees. Latitude uncertainty: 5 km; Longitude uncertainty: 3 km

ISK 15 10:32:37.7, 35°46'N, 27°67'E, h16km, ML3.6/22, THE 15 10:32:37.4, 35°N, 12°2'8E, 2.9, h4km, 30km, M3.4/8, MLh3.4/8

AFAD 15 10:32:37.0, 35°38'N, 27°74'E, h38km, 14km, MW3.8, ISC 15 10:32:35.8-1.1, 35°33'N, 0°03.27'W, h0.02, h17km, 7km, n105, n141/126, mb3.6/5, MS3.1/4, Dodecanese Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like KARP, ARG, ZKR, etc.

15 10:32:37.0, 35°38'N, 27°74'E, h38km, 14km, MW3.8, ISC 15 10:32:35.8-1.1, 35°33'N, 0°03.27'W, h0.02, h17km, 7km, n105, n141/126, mb3.6/5, MS3.1/4, Dodecanese Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like IZZE, DALY, ASTA, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase ID, Time, Res. Includes stations like AYDB, NAZL, KORT, etc.

15 10:32:37.0, 35°38'N, 27°74'E, h38km, 14km, MW3.8, ISC 15 10:32:35.8-1.1, 35°33'N, 0°03.27'W, h0.02, h17km, 7km, n105, n141/126, mb3.6/5, MS3.1/4, Dodecanese Islands

15 10:32:37.0, 35°38'N, 27°74'E, h38km, 14km, MW3.8, ISC 15 10:32:35.8-1.1, 35°33'N, 0°03.27'W, h0.02, h17km, 7km, n105, n141/126, mb3.6/5, MS3.1/4, Dodecanese Islands

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15 10:32:37.0, 35°38'N, 27°74'E, h38km, 14km, MW3.8, ISC 15 10:32:35.8-1.1, 35°33'N, 0°03.27'W, h0.02, h17km, 7km, n105, n141/126, mb3.6/5, MS3.1/4, Dodecanese Islands

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Table with columns: Station Name, Azimuth, Elevation, Frequency, Bandwidth, SNR, and other technical details. Includes stations like Las Campanas, Combarbal, and various other observatory sites.

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Table with columns: Station Name, Azimuth, Elevation, Frequency, Bandwidth, SNR, and other technical details. Includes stations like N49A Columbus Grove, P40A Paris, and various other observatory sites.

NEIC 15:43:56.2-1.35:247N:0:009-97:746W:0:004
10km,1km,ml\_Lg2,3/0,ML2,1/9,ML2,2/38,Error ellipse:
s-maj=2.4km s-min=1.6km az=11.0
NEIC 15:43:56.4-1.1,35:243N:0:010-97.74W:0:01,h4km,2km,
Error ellipse: s-maj=1.4km s-min=1.3km az=139.0,
Oklahoma

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Bandwidth, SNR, and other technical details. Includes stations like FNO Franklin, OKCWS OKLAHOMA CITY, and various other observatory sites.





IDC 15 12:39:29.4s.3.4.64S:154.21E,h430km,35km,mb3.1/6, mbmp3.9/8, Error ellipse: s-maj=24.7km s-min=21.8km az=50.0

ISC 15 12:39:26.5s.0.8,4.5S:0.1:154.3E:0.1,h400km,n23, 0.13/25,mb3.9/10,Bougainville-Solomon Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RABL Rabaul, PMG Port Moresby, JAY Jayapura, COEN Coen, DZM Mont Dzumac, FAKI Fak Fak, WR8 Warramunga Arr, WRAB Tennant Creek, WRA Warramunga Arr, WFR Warramunga Arr, AS31 Alice Springs, ASAR Alice Springs, SONMI Songino Array, VVND Wandu, SBA Scott Base, O16K Kokwok River B, MKAR Makarani Array, ILAR Eielson Array, QSPA South Pole Qui, NEIC 15 12:56:24.3s.0.9,19.22N:0.02:155.41W:0.02,h42km,2km, Error ellipse: s-maj=3.7km s-min=2.5km az=151.0, HVO 15 12:56:26.3s.0.1,19.22N:0.04:155.40W:0.03,h32km,7km, ML2.4/36,ML2.5/44(NEIC), Error ellipse: s-maj=0.7,0km s-min=2.8km az=148.0, Hawaiian Islands

Table with columns: HPAH, Hawaii Prepara, 0.85 341, IAML, 12 56 50.2, SHLS Shalkode, 4.46 184, Pg, Pb, 13 33 07.3 -0.4, HPAH, Hawaii Prepara, comp=N,194nm,0.1s, 1.73 333, Pn, 12 56 51.8 -2.5, HLK HLK, Haleakala, 1.73 333, Pn, 12 57 10.8 -4.7, KHLH Kahului Airpor, 1.93 330, Pn, 12 56 55.0 -1.9, KHLH Kahului Airpor, 1.93 330, Pn, 12 57 16.9 -3.1, WMR Waimanalo Ridg, 3.00 315, Pn, 12 57 08.8 -2.8, WMR Waimanalo Ridg, 3.00 315, Pn, 12 57 42.1 -4.3, HON Honolulu, 3.22 311, Pn, 12 57 12.0 -2.6, HON Honolulu, 3.22 311, Pn, 12 57 45.7 -6.2

NEIC 15 13:01:26.8s.0.8,37.03N:0.01:104.99W:0.01,h5km,11km, ML1.7/10, Error ellipse: s-maj=3.5km s-min=2.1km az=224.0, Colorado

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like T25A Trinidad, 0.48 77, Op, Pg, 13 01 36.7 +0.7, T25A Trinidad, 0.48 77, Op, Sg, 13 01 43.0 +0.7, SDCO Great Sand Dun, 0.82 331, Pn, 13 01 42.8 +0.2, S22A Aita Ranch, Cre, 1.63 297, Pn, 13 01 56.0 -0.5, RTBA RITA Branch, 1.91 107, Pn, 13 02 01.1 -1.0, RTBA RITA Branch, 1.91 107, Pn, 13 02 34.9 +2.5, ANMO Albuquerque, 2.40 210, Pn, 13 02 06.6 -0.3, ANMO Albuquerque, 2.40 210, Pn, 13 02 06.2 -0.7, MVCO Mesa Verde, 2.81 275, Pn, 13 02 12.9 +0.4

JMA 15 13:09:27.6s.0.5,22.2N:2.12E, h57km, MV3.2/16, FAR S OFF ISHIGAKI/JIMA

ISC 15 13:09:27.5s.2.3,22.4N:0.1:123.70E:0.07,h35km,n19, 0.96/26, Southeast of Taiwan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like HATJ Hateruma jima, 1.63 3, eP, Pn, 13 09 54.3 +0.7, HATJ Hateruma jima, 1.63 3, eP, Sn, 13 10 12.6 -0.7, JKRS Kuro-shima, 1.83 9, S, Pn, 13 09 57.3 +1.0, JKRS Kuro-shima, 1.83 9, S, Sn, 13 10 17.9 -0.4, IRIF Irifote-Funau, 1.90 1, eP, Pn, 13 09 58.5 +1.1, IRIF Irifote-Funau, 1.90 1, eP, Sn, 13 10 19.4 -0.7, IRIF Irifote-Funau, 1.90 1, eP, Sn, 13 09 58.5 +0.2, IRIF Irifote-Funau, 1.90 1, eP, Sn, 13 10 20.8 -1.1, YJYJ Yonaguni jima, 2.12 343, S, Pn, 13 10 57.4 +0.2, YJYJ Yonaguni jima, 2.12 343, eP, Pn, 13 10 01.8 +1.2, YJYJ Yonaguni jima, 2.12 343, eP, Sn, 13 10 25.5 -0.3, YJYJ Yonaguni jima, 2.12 343, eP, Sn, 13 10 01.9 +0.1, YJYJ Yonaguni jima, 2.12 343, eP, Sn, 13 10 27.0 -1.1, YJYJ Yonaguni jima, 2.12 343, eP, Sn, 13 10 04.4 +0.3, YJYJ Yonaguni jima, 2.12 343, eP, Sn, 13 02 20.0 -0.2, YULB Yu-li, 2.41 294, P, Pn, 13 10 04.6 +0.1, YULB Yu-li, 2.41 294, P, Pn, 13 10 05.5 +0.5, TWGBT Beinan, 2.45 280, S, Pn, 13 10 32.9 -0.8, TWGBT Beinan, 2.45 280, S, Pn, 13 10 37.3 +0.3, NACB Ninganchiao, 2.60 312, S, Pn, 13 10 21.2 +2.5, NACB Ninganchiao, 2.60 312, S, Pn, 13 10 09.3 +0.3, JIRB Irabujima, 2.75 29, P, Sn, 13 10 40.5 -0.6, JIRB Irabujima, 2.75 29, P, Sn, 13 10 09.5 +0.5, JIMJ2 Miyako jima, 2.75 33, eP, Sn, 13 10 40.5 -0.5, JIMJ2 Miyako jima, 2.75 33, eP, Sn, 13 10 40.5 +0.5, SUBL Suanglung, 2.87 299, P, Pn, 13 10 12.0 +1.3, TPUB Ta-pu, 2.96 288, P, Pn, 13 10 15.6 +1.8, YHNB Yehng, 3.09 317, P, Pn, 13 10 15.6 +1.8, TATO Taipei, 3.25 322, P, Pn, 13 10 18.8 +2.9

GCG 15 13:18:20.1s.0.3,13.14N:90.06W,h24km,5km,MD3.9,1D, Near coast of Guatemala

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like NUBE Las Nubes, 0.81 20, iP, Pn, 13 18 35.4 -0.1, NUBE Las Nubes, 0.81 20, iP, Pn, 13 18 47.4 0.0, MTO3 Montecristo, 1.42 29, iP, Pn, 13 18 45.1 +0.4, STGO El Palmar, Qui, 1.78 316, eP, Pn, 13 18 54.8 +2.6, STGO El Palmar, Qui, 1.80 316, iP, Pn, 13 18 55.6 +3.0

NNC 15 13:31:47.3s.0.5,47.55N:79.78E, h0km, mb3.8, mpv3.6, Error ellipse: s-maj=4.2km s-min=3.7km az=35.0, Suspected Mining explosion.

SOME 15 13:31:49.6s.0.5,48.12N:79.75E, h20km, ASRS 15 13:31:50.2s.0.5,48.12N:79.75E, h8km, ML4.3/5, Error ellipse: s-maj=5.0km s-min=3.8km az=61.0, confirmed

ISC 15 13:31:48.5s.0.7,47.61N:0.02:79.93E:0.03,h0km,n47, 0.19/370, 16C-8D, Eastern Kazakhstan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MAK2 Makanchi, 1.61 119, Op, Pn, 13 32 18.0 -0.1, MAK2 Makanchi, 1.61 119, Op, Sn, 13 32 39.2 -0.4, MAK2 Makanchi, 1.61 119, Pg, Pn, 13 32 17.8 -0.4, MAK2 Makanchi, 1.61 119, Sg, Pn, 13 32 39.1 -0.5, MK31 Makanchi Array, 1.80 116, iP, Pn, 13 32 21.6 -0.7, MK31 Makanchi Array, 1.80 116, iP, S, Pn, 13 32 22.1 -0.3, MKAR Makanchi Array, 1.80 116, P, Sg, 13 32 45.8 -0.6, SEM Semipalatinsk, 2.81 4, P, Pn, 13 32 38.0 -1.7, SEM Semipalatinsk, 1.6m,0.3s, Lg, 13 33 12.6, SEM Semipalatinsk, 1.6m,0.2s, 2.81 4, eP, Pn, 13 32 40.7 -1.7, SEM Semipalatinsk, 1.6m,0.2s, eS, Sg, 13 33 17.1 -1.6, TDK Taldyqorghan, 2.81 203, P, Pn, 13 32 38.7 -0.8, TDK Taldyqorghan, 32m,0.2s, Lg, 13 33 13.9, TDK Taldyqorghan, 2.81 203, eP, Pn, 13 32 38.7 -0.8, TDK Taldyqorghan, 32m,0.2s, eS, Sg, 13 33 13.9 -0.7, TDK Taldyqorghan, 601nm,0.4s, Pn, 13 32 38.5 -0.8, KURBB Kurchatov Arra, 0.6m,0.2s, iP, Pn, 13 32 46.1 +0.7, KURBB Kurchatov, 15m,0.3s, iP, Lg, 13 33 29.3, KURBB Kurchatov, 168nm,0.5s, iP, Lg, 13 33 29.3, KURK Kurchatov, 3.23 345, iP, Pn, 13 32 39.5 -0.9, KURK Kurchatov, 0.4m,0.4s, iP, Pn, 13 32 46.2 -0.4, KURK Kurchatov, 7.4m,0.5s, iP, Lg, 13 33 32.3, KURK Kurchatov, 44nm,0.3s, iP, Lg, 13 33 32.3, KURK Kurchatov, 3.23 345, Pn, 13 32 39.0 -1.4, KURK Kurchatov, 3.23 345, Pn, 13 32 48.2 -2.1, KURK Kurchatov, 3.23 345, Pn, 13 33 17.7 -0.4, DJR Jarkent, 3.28 182, P, Pn, 13 32 47.7 +0.1, DJR Jarkent, 6.3m,0.4s, Lg, 13 33 29.3, DJR Jarkent, 100nm,0.3s, Lg, 13 33 29.3, DJR Jarkent, 6.3m,0.4s, eP, Pn, 13 32 47.7 +0.1, DJR Jarkent, 6.3m,0.4s, eS, Sg, 13 33 29.3 +1.3, ZSN Zaisan, 3.35 91, eP, Pn, 13 32 50.0 -0.6, ZSN Zaisan, 32m,0.3s, eS, Sg, 13 33 37.0 +1.0, KMMS Ketmen, 4.17 176, P, Pn, 13 33 04.1 +1.3, KMMS Ketmen, 4.9m,0.6s, Lg, 13 33 57.4, KMMS Ketmen, 35m,0.4s, Lg, 13 33 57.4, KMMS Ketmen, 4.17 176, eP, Pn, 13 33 04.1 +1.3, KMMS Ketmen, 4.9m,0.6s, eS, Sg, 13 33 57.4 +3.6, KPKS Kokpek, 4.23 192, P, Pn, 13 33 04.4 +0.6, KPKS Kokpek, 2.8m,0.3s, Lg, 13 33 58.2, PDGK Pedgornoye, 4.29 184, iP, Pn, 13 32 53.9 -1.2, PDGK Pedgornoye, 3.4m,0.3s, iP, Pn, 13 33 06.2 +1.4, PDGK Pedgornoye, 3.0m,0.3s, iP, Lg, 13 33 57.4, PDGK Pedgornoye, 59m,0.5s, iP, Lg, 13 33 57.4

Table with columns: SHLS Shalkode, 4.46 184, Pg, Pb, 13 33 07.3 -0.4, SHLS Shalkode, 12nm,0.5s, Lg, 13 34 03.6, SHLS Shalkode, 11nm,1.1s, 4.46 184, eP, Pb, 13 33 08.8 +1.0, SHLS Shalkode, 12nm,0.3s, eS, Sg, 13 34 05.3 +3.1, KUUR Kurury, 4.49 215, Pn, 13 33 07.5 -0.5, KUUR Kurury, 4.9m,0.4s, Lg, 13 34 03.6, KUUR Kurury, 165nm,0.4s, 4.49 215, eP, Pb, 13 33 07.5 -0.5, KUUR Kurury, 4.9m,0.4s, eS, Sg, 13 34 03.6 +1.0, UZB Uzunbulak, 4.51 188, Pn, 13 33 09.0 +0.5, UZB Uzunbulak, 4.8m,0.6s, Lg, 13 34 06.6, KTBS Karatobe, 4.51 211, Pn, 13 33 08.6 0.0, KTBS Karatobe, 4.8m,0.3s, Lg, 13 34 05.3, SATY Saty, 4.67 194, Pn, 13 33 12.8 +1.5, SATY Saty, 4.2m,0.2s, Lg, 13 34 13.1, SATY Saty, 48m,0.3s, Lg, 13 34 16.9, KNDC Almaty, 4.86 207, iLg, Lg, 13 34 16.9, MDOK Medeo, 4.89 206, Pn, 13 33 16.0 +1.0, MDOK Medeo, 3.8m,0.5s, iLg, Lg, 13 34 16.8, MDOK Medeo, 67m,0.6s, Lg, 13 34 18.7, MDOK Medeo, 86m,0.7s, Lg, 13 34 18.7, MTBS Maitube, 5.11 210, Pn, 13 33 18.7 -0.1, MTBS Maitube, 3.2m,0.2s, Lg, 13 34 23.2, MTBS Maitube, 11nm,0.9s, 5.11 210, eP, Pb, 13 33 19.6 +0.8, MTBS Maitube, 3.1m,0.1s, eS, Sg, 13 34 24.1 +3.3, OTUY Ortau, 5.14 280, Pn, 13 33 21.1 +1.8, OTUY Ortau, 3.1m,0.1s, Lg, 13 34 26.5, OTUY Ortau, 42m,0.6s, 5.14 280, iP, Pn, 13 33 05.5 -1.2, OTUY Ortau, 0.7m,0.2s, iP, Pn, 13 33 20.7 +1.4, OTUY Ortau, 1.5m,0.3s, iLg, Lg, 13 34 25.3, BRZS Berezinski, 5.35 299, Pn, 13 33 24.7 +1.9, BRZS Berezinski, 1.1m,0.4s, Lg, 13 34 32.9, BRZS Berezinski, 58m,0.9s, 5.35 299, eP, Pb, 13 33 24.7 +1.9, BRZS Berezinski, 1.1m,0.4s, eS, Sg, 13 34 32.9 +5.4, KST KasteK, 5.35 213, Pn, 13 33 22.0 -0.9, KST KasteK, 3.9m,0.6s, Lg, 13 33 28.9, KST KasteK, 105m,0.5s, 5.35 213, eP, Pb, 13 33 24.2 +1.3, KST KasteK, 6.0m,0.4s, eS, Sg, 13 34 31.6 +3.9, DGZ Jazator, Alta, 5.39 64, Sg, Sg, 13 34 40.4 -2.8, ELDR Elzanda, 5.40 46, Pn, Pn, 13 33 12.5 +2.3, ELDR Elzanda, 5.40 46, Pn, Pn, 13 34 42.3 +0.4, SGDS Sogindy, 5.58 224, Pn, 13 33 26.6 -0.2, SGDS Sogindy, 14m,0.4s, Lg, 13 34 37.0, SGDS Sogindy, 32m,0.5s, 5.59 215, iLg, Pn, 13 33 12.7 -0.4, TKM2 Tokmak 2, 5.59 215, Pn, 13 34 37.9, TKM2 Tokmak 2, 2.9m,0.4s, Lg, 13 34 37.9, CHBI Chibit, Altay, 5.67 59, Pn, 13 33 17.5 +3.5, CHBI Chibit, Altay, 5.67 59, Pn, 13 34 50.9 +0.3, AKAR Aktash, 5.75 59, Pn, 13 33 18.8 +3.8, AKAR Aktash, 5.75 59, Pn, 13 34 54.2 +1.3, ULGR Ulagan, Altay, 6.07 57, Sg, Sg, 13 35 02.1 -1.4, AAK Ala-Archa, 6.28 220, iLg, Lg, 13 34 57.9, ARTR Artybashi, 6.35 46, Sg, Sg, 13 35 11.5 -0.8, YALR Yailiy, 6.49 47, Sg, Sg, 13 35 17.2 +0.3, KK31 Karatay Array, 8.02 239, iP, Pn, 13 33 43.8 -2.6, KK31 Karatay Array, 8.02 239, iP, Sn, 13 33 09.6 -7.9, KK31 Karatay Array, 1.7m,0.3s, baz=52, slow=22, SNR=8.6, Lg, 13 35 55.1, BVA0 Borey Array, 8.15 315, Pn, 13 33 51.1 +3.0, BVA0 Borey Array, 1.3m,0.3s, baz=117, slow=13, SNR=4.1, Sn, 13 35 19.2 -1.8, BVA0 Borey Array, 2.2m,0.5s, baz=119, slow=26, SNR=4.2, Lg, 13 36 03.2, BVA0 Borey Array, 5.8m,0.6s, baz=127, slow=26, SNR=4.4, Lg, 13 36 03.2

DJA 15 14:04:21.7s.0.4,9.5S:6.11E, h163km,5km,M4.1/12, mb4.0/1, MLv4.1/12

IDC 15 14:04:22.7s.2.6,8.51S:118.08E,h183km,21km,mb2.7/2, mbmp3.5/6, Error ellipse: s-maj=49.8km s-min=14.0km az=51.0

ISC 15 14:04:21.3s.0.9,8.63S:0.06:118.12E:0.04,h143km,n20, 0.69/259, Sumbawa region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like PLAI Plampang, 0.39 240, Op, Pn, 14 04 45.2 +3.8, PLAI Plampang, 0.39 240, Op, Sn, 14 05 01.6 +5.0, TWSI Taliwang, Sumb, 1.23 265, Pn, 14 04 50.2 +2.6, TWSI Taliwang, Sumb, 1.23 265, Pn, 14 05 10.6 +3.0, WBSI Waikabubak, Su, 1.61 129, P, Sn, 14 04 54.0 +2.4, WBSI Waikabubak, Su, 1.61 129, P, Sn, 14 05 18.5 +3.8, WSI Waingapu, 2.38 116, S, Sn, 14 05 03.2 +2.5, WSI Waingapu, 2.38 116, S, Sn, 14 05 34.9 +3.9, DNP Denpasar, 2.88 269, P, Pn, 14 05 07.5 +0.7, BASI Baing, Sumba, 2.89 123, P, Pn, 14 05 09.9 +2.8, SRBI Sangraja, 2.93 280, P, Pn, 14 05 07.6 +0.1, BSSI Bau Bau, Buton, 3.41 44, P, Pn, 14 05 15.7 +1.9, EDFI Ende, Flores, 3.53 92, P, Pn, 14 05 17.0 +1.6, EDFI Ende, Flores, 3.53 92, P, Sn, 14 05 59.7 +2.5, JAGI Jajag, Banyuwa, 3.93 272, P, Pn, 14 05 19.4 -1.1, KAPI Kappang, 3.94 24, P, Pn, 14 05 22.2 +1.5, JAGI Jajag, Banyuwa, 9.1nm,0.3s, baz=203, slow=9.8, SNR=6.4, Pn, 14 05 23.6 +1.2, MMRI Maumere, 4.07 90, P, Pn, 14 05 28.7 -1.2, GMIJ Gumukmas, 4.64 274, P, Pn, 14 05 33.7 +3.0, BONE Bone, 4.64 25, P, Pn, 14 05 10.6 +3.0, BATI Baumat, 5.69 106, P, Pn, 14 05 45.9 +2.0, BATI Baumat, 18m,0.3s, baz=291, slow=2.4, SNR=1.6, S, Sn, 14 06 47.7 -0.6, BATI Baumat, 34m,0.3s, baz=352, slow=24, SNR=1.1, S, Sn, 14 05 51.4 +1.0, SOEI Fitroz Crossi, 6.17 101, P, Pn, 14 05 07.9 +1.1, SOEI Fitroz Crossi, 1.8m,0.6s, baz=317, slow=7.7, SNR=12, S, Sn, 14 09 14.2 -4.1, FITZ Fitroz Crossi, 1.93 127, P, Pn, 14 08 35.5 0.0, WRA Warramunga Arr, 19.30 127, P, S, 14 12 06.9 +0.5, WRA Warramunga Arr, 0.8m,0.9s, baz=300, slow=12, SNR=12, S, 14 12 06.9 +0.5, ASAR Alice Springs, 21.26 137, P, S, 14 08 56.5 +0.1, ASAR Alice Springs, 0.2m,0.6s, baz=312, slow=10.0, SNR=12, S, 14 11.1 -3.3, ASAR Alice Springs, 0.3m,0.7s, baz=317, slow=19, SNR=2.6, S, 14 11.1 -3.3, ASAR Alice Springs, 0.2m,0.6s, baz=312, slow=10.0, SNR=12, S, 14 11.1 -3.3, MKAR Makanchi Array, 63.74 333, P, Pn, 14 14 34.1 -3.7, MKAR Makanchi Array, 0.4m,0.5s, baz=140, slow=7.8, SNR=4.7, 4.9m,0.5s, Pn, 14 14 34.1 -3.7

AEIC 15 14:08:44.6s.2.1,54.77N:0.04:163.13W:0.03,h5km,2.7km, Error ellipse: s-maj=5.5km s-min=1.8km az=160.0

NEIC 15 14:08:44.7s.0.9,54.77N:0.05:163.06W:0.04,h9km,11km, ML2.8/12,ML2.3(AEIC), Error ellipse: s-maj=8.0km s-min=2.0km az=156.0, Unimak Island region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like FALS False Pass, 0.25 305, Pn, 14 08 49.7 -0.1

15d 15h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like FALS, False Pass, IAML, ISLZ, Isanotski Laza, etc.

PGC 15 15:17:14.1±0.0,60.66°N:116.98°W,h15km,ML4.0/10, 39km southeast of Kakisa, Nt Nw Territories - Nunavut, Canada, Northwest Territories

Large table listing station data for PGC 15 15:17:14.1±0.0,60.66°N:116.98°W,h15km,ML4.0/10, 39km southeast of Kakisa, Nt Nw Territories - Nunavut, Canada, Northwest Territories.

15d 15:19:48.7±1.6,8.31°S:113.42°E,h0km,mb3.6/7, mbtmp3.7/9,ML3.7/2, Error ellipse: s-maj=67.5km s-min=18.0km az=46.0

Table listing station data for 15d 15:19:48.7±1.6,8.31°S:113.42°E,h0km,mb3.6/7, mbtmp3.7/9,ML3.7/2, Error ellipse: s-maj=67.5km s-min=18.0km az=46.0.

KRSC 15 15:33:16.2±1.3,48.08°N:157.75°E,h6km,61km,MI3.8, East of Kuril Islands

Table listing station data for KRSC 15 15:33:16.2±1.3,48.08°N:157.75°E,h6km,61km,MI3.8, East of Kuril Islands.

2019 JUN

Table listing station data for 2019 JUN, including stations like MTRV, Mutnovka, GRL, Gorelyy, etc.

15d 15:47:15.2±0.7,28.86°N:82.36°E,h0km,mb3.9/17, mbtmp3.9/20,ML4.0/3,MS3.2/12, Error ellipse: s-maj=24.6km s-min=13.7km az=51.0

Table listing station data for 15d 15:47:15.2±0.7,28.86°N:82.36°E,h0km,mb3.9/17, mbtmp3.9/20,ML4.0/3,MS3.2/12, Error ellipse: s-maj=24.6km s-min=13.7km az=51.0.

DMN 15 15:47:17.6±1.9,28.92°N:103.82°E,0.07,h13km,12km, n43,±104/45,mb4.0/16,MS3.2/11,Nepal

Table listing station data for DMN 15 15:47:17.6±1.9,28.92°N:103.82°E,0.07,h13km,12km, n43,±104/45,mb4.0/16,MS3.2/11,Nepal.

AAK 15 15:49:22.1±1.1,19.33°N:103.82°E,0.07,h13km,12km, n43,±104/45,mb4.0/16,MS3.2/11,Nepal

Table listing station data for AAK 15 15:49:22.1±1.1,19.33°N:103.82°E,0.07,h13km,12km, n43,±104/45,mb4.0/16,MS3.2/11,Nepal.

ARCS 15 15:52:41.9±1.8,39.44°N:72.23°E,h0km,mb3.7,mpv3.5, Error ellipse: s-maj=14.0km s-min=7.0km az=176.0

Table listing station data for ARCS 15 15:52:41.9±1.8,39.44°N:72.23°E,h0km,mb3.7,mpv3.5, Error ellipse: s-maj=14.0km s-min=7.0km az=176.0.

comp=Z,0.8nm,0.6s,baz=324,slow=5.9,SNR=7.8

Table listing station data for comp=Z,0.8nm,0.6s,baz=324,slow=5.9,SNR=7.8, including stations like GCG, MEX, etc.

SOME 15 15:52:38.2,39.30°N:72.27°E,h5km, KRNET 15 15:52:38.3±0.1,39.32°N:72.20°E,h17km,mb3.4

NNC 15 15:52:41.9±1.8,39.44°N:72.23°E,h0km,mb3.7,mpv3.5, Error ellipse: s-maj=14.0km s-min=7.0km az=176.0

ISC 15 15:52:39.2±1.1,39.35°N:0.05:72.21°E,0.03,h10km,n40, ±221/68,25C-28D,Kyrgyzstan

Table listing station data for ISC 15 15:52:39.2±1.1,39.35°N:0.05:72.21°E,0.03,h10km,n40, ±221/68,25C-28D,Kyrgyzstan.





NNSB		S	Sn	16 25 49.2 -0.7
E0S4	E0S4	0.65 65	P	16 25 49.0 +0.6
E0S4		0.65 65	S	16 25 50.0 +0.7
NNS	Nan Shan	0.66 335	I	16 25 49.0 -0.1
NNS		0.66 335	S	16 25 49.7 -0.5
SLBL	Suanglung	0.66 265	P	16 25 49.0 +0.1
SSLB	Suanglung	0.66 265	P	16 25 49.7 -0.2
CHKH	Chengggong	0.70 202	eS	16 25 49.2 -1.0
CHKH		0.70 202	Sb	16 25 41.3 0.0
LATG	Datong	0.70 349	I	16 25 52.6 +1.6
SMLT	Sun Moon Lake	0.71 273	I	16 25 41.2 -0.3
SMLT		0.71 273	S	16 25 41.7 0.0
FULB	Fulli	0.73 209	eP	16 25 51.3 -0.3
WCS	Beigang Elemen	0.73 287	eP	16 25 42.2 +0.4
WCS		0.73 287	Pn	16 25 42.1 +0.2
E0S3		0.73 53	eP	16 25 51.9 0.0
E0S3		0.73 53	Pn	16 25 42.7 +0.9
ESAO	Su ao	0.75 12	eP	16 25 42.8 +0.7
ESAO		0.75 12	S	16 25 53.3 +1.1
E0S2	E0S2	0.77 41	eP	16 25 43.5 +1.3
WHYT	Xinyi Township	0.77 259	eP	16 25 42.8 +0.4
WHYT		0.77 259	S	16 25 53.0 +0.2
TWC	Suao	0.78 12	I	16 25 43.0 +0.4
TWC		0.78 12	Sb	16 25 54.5 +1.2
NDS	Dongshan	0.79 3	eP	16 25 41.5 -1.1
CHKT	Chengkung	0.79 201	P	16 25 42.4 -0.3
CHKT		0.79 201	S	16 25 54.5 +1.1
WHP	Taichung City	0.80 303	P	16 25 43.7 +0.5
WHP		0.80 303	S	16 25 53.8 +0.2
ENTT	Nioudou	0.80 353	eP	16 25 42.8 -0.1
ENTT		0.80 353	S	16 25 53.8 +0.2
EHD	Haiduan	0.81 212	eP	16 25 42.3 -0.7
EHD		0.81 212	S	16 25 53.9 +0.3
ALD	Chishang	0.85 210	eP	16 25 44.4 +0.5
ALD		0.85 210	S	16 25 56.0 +0.4
WJS	Zhushan	0.87 269	eP	16 25 45.0 +1.2
WJS		0.87 269	S	16 25 56.8 +1.6
YHNS	Yeheng	0.87 342	eP	16 25 44.1 +0.2
YHNS		0.87 342	S	16 25 54.1 +0.2
YHNS		0.88 359	I	16 25 55.5 +0.1
TWE	Neicheng	0.88 359	I	16 25 43.9 0.0
NSK	Sanguang	0.88 341	I	16 25 44.2 +0.2
NSK		0.88 341	S	16 25 55.3 -0.3
ELOTW	Lidau	0.89 222	eP	16 25 43.5 -0.6
ELOTW		0.89 222	S	16 25 54.1 +1.1
WNT	Mingjian	0.91 273	I	16 25 57.9 +1.6
FUSB	Fushanzhiwuyua	0.92 355	I	16 25 44.5 0.0
FUSB		0.92 355	S	16 25 56.4 -0.2
ILA	Ilan	0.92 4	eP	16 25 46.5 +1.1
ILA		0.92 4	S	16 25 57.6 +0.8
EDH	Donghe	0.93 202	eP	16 25 45.7 +0.8
EDH		0.93 202	S	16 25 57.8 +0.7
NFF	Wufeng Townshi	0.94 327	P	16 25 45.5 +0.7
NFF		0.94 327	S	16 25 57.8 +0.7
NWLT	Wulai	0.94 350	eP	16 25 45.1 +0.3
NWLT		0.94 350	S	16 25 56.9 -0.3
CHNS	Tsauling	0.95 255	eP	16 25 45.7 +0.8
CHNS		0.95 255	S	16 25 58.7 +1.3
TCU	Taichung	0.96 289	eP	16 25 46.4 +1.4
TCU		0.96 289	S	16 25 59.6 +2.0
TWQ1	Liyutan	0.97 302	I	16 25 46.3 +1.2
TWQ1		0.97 302	S	16 25 59.3 +1.5
NSST	Nanjuang	1.00 322	I	16 25 59.2 +0.7
NSST		1.00 322	S	16 25 47.0 +1.4
LIOB	Emei	1.00 323	I	16 25 47.0 +1.4
LIOB		1.00 323	S	16 25 59.9 +1.3
NSY	Sanyi	1.01 305	I	16 25 47.1 +2.0
NSY		1.01 305	S	16 25 47.9 +0.7
EKS	Jegms	1.03 13	eP	16 26 02.7 +2.4
EKS		1.03 13	S	16 25 47.0 +1.0
WGK	Gukeng	1.03 262	eP	16 26 01.4 +2.1
WGK		1.03 262	S	16 25 47.6 +1.5
KSHI	Guanxi Townshi	1.04 334	I	16 26 01.1 +1.7
KSHI		1.04 334	S	16 25 47.9 +1.4
WCHH	Zhanguhua	1.05 283	eP	16 26 02.4 +1.4
WCHH		1.05 283	S	16 25 47.4 +1.1
WDL	Douliu City	1.05 263	eP	16 26 02.0 +1.0
WDL		1.05 263	S	16 25 47.8 +1.3
WDLH	Douliu	1.05 262	eP	16 26 01.7 +1.8
WDLH		1.05 262	S	16 25 48.0 +1.6
LONT	Longtian	1.06 208	eP	16 26 02.2 +2.2
LONT		1.06 208	S	16 25 48.0 +1.6
WCH1	Changhua City	1.06 283	eP	16 26 01.7 +1.6
WCH1		1.06 283	S	16 26 01.7 +1.6
WCKO	Fanlu	1.06 248	eP	16 26 01.7 +1.6
WCKO		1.06 248	S	16 25 48.0 +1.6
STWH	Taoyuan	1.06 231	I	16 26 01.7 +1.6
STWH		1.06 231	S	16 25 47.1 +0.7
NMLH	Miaoili	1.06 311	eP	16 26 01.7 +1.6
NMLH		1.06 311	S	16 25 47.7 +1.1
WDJ	Dajia District	1.07 298	I	16 26 01.9 +1.5
WDJ		1.07 298	S	16 25 47.7 +0.7
TPUB	Ta-pu	1.10 241	S	16 26 03.1 +2.0
TPUB		1.10 241	S	16 25 48.0 +1.0
TPUB		1.10 241	S	16 26 02.0 +1.0
NHHD	Xindian Distri	1.12 353	eP	16 25 48.2 +0.9
NHHD		1.12 353	S	16 26 02.3 +0.7
NHCH	Shuangxi	1.13 7	eP	16 26 02.8 +0.9
NHCH		1.13 7	S	16 25 48.9 +1.4
SBCB	Hsinchu	1.14 326	eP	16 26 04.5 +1.0
SBCB		1.14 326	S	16 25 48.1 +0.7
TWA	Mucha	1.14 356	I	16 25 48.2 +0.7
TWA		1.14 356	S	16 26 03.4 +1.4
TATO	Taipei	1.14 351	P	16 25 48.7 +1.2
TATO		1.14 351	S	16 26 04.3 +2.2
WTP	Ta-pu	1.14 239	eP	16 25 49.4 +1.8
WTP		1.14 239	S	16 25 49.1 +1.5
CHNZ	Minshiung	1.14 255	P	16 26 05.0 +1.1
CHNZ		1.14 255	S	16 25 46.6 -1.2
HSN	Hsinchu	1.15 326	I	16 25 46.6 -1.2
HSN		1.15 326	S	16 26 05.0 +1.1
TWG	Pinlang	1.16 209	eP	16 25 46.6 -1.2
TWG		1.16 209	S	16 26 08.0 -0.7
TWGBT	Beinan	1.16 208	eP	16 25 46.6 -1.2
TWGBT		1.16 208	S	16 25 46.6 -1.2
LDUT	Ludao	1.18 189	eP	16 25 49.8 +1.7
LDUT		1.18 189	S	16 25 49.8 +1.7
TTN	Taitung	1.19 204	eP	16 26 05.0 +1.1
TTN		1.19 204	S	16 26 05.0 +1.1
WTK	Tuku	1.19 263	P	16 26 05.0 +1.1
WTK		1.19 263	S	16 26 05.0 +1.1
TWB1	Santiao Chiao	1.20 14	eS	16 25 49.4 +1.1
TWB1		1.20 14	S	16 26 05.0 +1.1
CHY	Chiayi	1.20 254	eP	16 25 49.5 +1.1
CHY		1.20 254	S	16 25 47.1 -1.3
NCUH	Zhongli	1.21 338	eP	16 25 49.9 +1.1
NCUH		1.21 338	S	16 25 49.9 +1.1
NCUF	National Cent	1.23 4	eP	16 26 05.4 +1.1
NCUF		1.23 4	S	16 25 50.2 +1.5
WFSB	Wu-fen Shan	1.23 4	eP	16 26 05.4 +1.1
WFSB		1.23 4	S	16 25 50.2 +1.5
WFSB		1.23 4	S	16 26 05.0 +1.4
WFSB		1.23 4	S	16 25 50.0 +1.2
WFSB		1.23 4	S	16 26 06.6 +2.2
CHN1	Nanshi	1.24 238	eP	16 26 07.1 +2.5
CHN1		1.24 238	S	16 25 50.1 +1.9
SNST	Tainan City	1.25 240	eP	16 25 50.3 +1.4
SNST		1.25 240	S	16 26 07.1 +2.5
SKX1	Grass Mountain	1.26 8	eP	16 25 50.3 +1.2
SKX1		1.26 8	S	16 26 07.1 +2.5
TWST	Kuangyinhshan	1.28 349	eP	16 25 50.6 +1.2
TWST		1.28 349	S	16 26 07.8 +2.4
YMO1	YMO1	1.30 356	eP	16 25 49.9 +0.2
YMO1		1.30 356	S	16 25 50.0 +0.3
JYNG	Yonagunijima	1.31 62	eP	16 25 50.6 +0.8
JYNG		1.31 62	S	16 25 47.5 +1.5
ZUZH	Zhuzihu	1.32 355	I	16 25 50.3 +0.3
ZUZH		1.32 355	S	16 26 06.8 +0.3
NTST	Danshui	1.33 351	eP	16 25 51.8 +1.6
NTST		1.33 351	S	16 25 50.2 -0.1
YMO8	YMO8	1.34 357	P	16 25 51.4 +0.5
YMO8		1.34 357	S	16 26 09.1 +2.0
ANP	Anpu	1.35 354	eP	16 25 51.6 +1.0
ANP		1.35 354	S	16 26 10.0 +2.5
WSF	Szhu	1.35 262	I	16 25 51.6 +1.0
WSF		1.35 262	S	16 26 10.0 +2.5
WSL	Shuilin Townsh	1.37 257	eP	16 25 51.6 +1.0
WSL		1.37 257	S	16 26 10.0 +2.5
YOJ	Yonaguni jima	1.37 63	P	16 25 51.6 +1.0
YOJ		1.37 63	S	16 26 10.4 +0.8
YOJ		1.37 63	S	16 26 08.4 +0.9
YOJ		1.37 63	S	16 25 51.4 +0.8
YOJ		1.37 63	S	16 26 08.7 +1.1
ICHU	Yijhu	1.37 250	eP	16 25 51.9 +1.2
ICHU		1.37 250	S	16 26 10.4 +0.8
ECL	Taimali	1.41 208	eP	16 25 52.0 -1.0

ECL		eS	Sn	16 26 09.3 +0.8
CHN3	Shinhua	1.43 238	eP	16 25 53.8 +2.4
CHN3		1.43 238	S	16 26 13.2 +1.5
TWY	Chenhua	1.43 357	eP	16 25 52.2 +0.7
TWY		1.43 357	S	16 26 11.4 +2.3
CHNB	Yijhu	1.43 250	eP	16 26 11.5 +2.3
CHNB		1.43 250	S	16 25 54.0 +2.3
SCST	Cishan	1.45 229	I	16 26 13.8 +1.6
SCST		1.45 229	Sb	16 25 53.2 +1.4
SSD	Sandimen	1.45 222	eP	16 26 13.4 +0.5
SSD		1.45 222	Sb	16 26 13.3 +0.8
SSHA	Shanhua	1.46 241	eP	16 25 54.7 +2.5
SSHA		1.46 241	S	16 26 13.0 +0.0
TSMG	Majia	1.48 220	eP	16 26 13.0 +0.0
TSMG		1.48 220	S	16 25 53.9 +1.3
SCLT	Jiali	1.51 244	eP	16 26 13.7 +2.5
SCLT		1.51 244	Pb	16 25 53.5 +0.2
TWMI	Shoushan	1.52 229	eP	16 26 15.4 0.0
TWMI		1.52 229	Sb	16 25 52.0 +1.1
MASBT	Mashibuluo	1.56 218	eP	16 26 16.2 +2.5
MASBT		1.56 218	S	16 25 53.5 +0.2
MSBT		1.56 218	S	16 26 15.4 0.0
SGLT	Jiouru	1.56 225	eP	16 26 15.6 +2.1
SGLT		1.56 225	S	16 25 53.9 +1.3
TSCK	Chigu Township	1.62 245	eP	16 26 17.0 +1.6
TSCK		1.62 245	S	16 26 02.9 +0.9
TSCK		1.62 245	S	16 26 16.2 +2.5
EAST	Anshuo	1.64 208	eP	16 25 53.6 -0.8
EAST		1.64 208	S	16 25 55.1 +0.7
TAW	Tawu	1.64 206	eP	16 26 14.6 +0.2
TAW		1.64 206	S	16 25 54.9 +2.0
TAWH	Dawu Township	1.66 206	eP	16 26 20.3 +3.1
TAWH		1.66 206	S	16 25 57.7 +1.0
SCZT	Fangliu	1.72 214	eP	16 25 58.3 +1.5
SCZT		1.72 214	S	16 25 55.1 -1.9
SLIU	Shizi	1.81 207	eP	16 26 07.0 +0.1
SLIU		1.81 207	S	16 25 59.0 +0.5
PCYT	Pengchayiu	1.82 11	eP	16 26 22.2 +0.5
PCYT		1.82 11	S	16 25 59.5 +1.0
LYBT	Lan-yu	1.83 183	eP	16 26 23.1 +1.4
LYBT		1.83 183	S	16 25 59.2 +0.5
WJSG	Liuchu	1.91 219	eP	16 26 23.7 +0.8
WJSG		1.91 219	S	16 26 23.7 +0.8
WDGT	Dungji	1.94 275	I	16 26 23.7 +0.8
WDGT		1.94 275	S	16 26 22.2 +0.5
IRIF	Iriomote-Funau	1.94 75	P	16 25 59.5 +1.0
IRIF		1.94 75	S	16 26 23.1 +1.4
PHUB	P'eng-hu	1.96 261	eP	16 26 23.7 +0.8
PHUB		1.96 261	S	16 26 23.7 +0.8
PHUB		1.96 261	S	16 26 23.7 +0.8
HATJ	Hateruma jima	1.96 83	P	16 26 23.7 +0.8
HATJ		1.96 83	S	16 26 23.7 +0.8
PNG	Penghu	1.96 262	eP	16 26 23.7 +0.8
PNG		1.96 262	S	16 25 59.1 +0.3
HENK	Hengchun	2.02 206	eP	16 26 20.5 +2.8
HENK		2.02 206	S	16 26 01.1 +1.5</

Table with columns: Call Sign, Location, Frequency, Power, Mode, and Time. Includes stations like CAM01 Campos-RJ, TEFE Tefe, JANB Januaria, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, and Res. Includes stations like WESE West Dahl East, WESJ West Dahl East, etc.

Table with columns: Call Sign, Location, Frequency, Power, Mode, and Time. Includes stations like K30B Basset, E28A Huff, BSUT Blindstream Ca, etc.

AEIC 15 16:58:06.0: 2.1, 5.3: 82N: 0.06: 164: 16W: 0.07, h21km, 8km, Error ellipse: s-maj=9.7km s-min=4.1km az=153.0

NEIC 15 16:58:05.3: 1.3, 5.3: 82N: 0.06: 164: 14W: 0.07, h8km, 4km, Error ellipse: s-maj=2.0km s-min=1.1km az=178

15d 18h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like JCT Junction City, MNTX Cornudas Mount, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like KRSC 15 17:20:26.41.9, 49.711N, 159.23E, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like SRBI Singaraja, RNP Denpasar, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like IDHR Dehrash, IGHG Ghaleghazi, etc.

IDC 15 17:58:32.5:0.9, 13.21N:124.40E, h0km, mb3.7/8, mbtmp3.7/8, Error ellipse: s-maj=55.1km s-min=17.5km az=72.0

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like KSR5 Korea Array, USRK Ussuriysk Arr, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 15 18:02:27.6:16.0, 0.19N:128.16E, h250km, 189km, mb3.0/4, mbtmp3.6/4, Error ellipse: s-maj=127.8km s-min=34.6km az=77.0, Halmahera

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like WEL 15 18:23:22.3:0.8, 33.5:6.17, 8W:1.5, h12km, mB4.8/6, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like ARCES ARCESS Array B, FINES FINESS Array B, etc.

NOU 15 18:33:14.7, 25.08S:179.92E, h527km, mb4.6/68, South of Fiji Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like RAO Raoul Island, RAO Raoul Island, etc.

NEIC 15 18:33:15.8:1.7, 25.10S:0.10:179.7E:0.1, h515km, 6km, mb4.9/67, Error ellipse: s-maj=14.9km s-min=13.3km az=132.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like RAO Raoul Island, RAO Raoul Island, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like URZ Urewera, URZ Urewera, etc.



Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

RSNC 15 18:33:26.7±0.5,0°S,3°8'0W±1,h0km,M3.1,ML2.8, MLV3.5,Near coast of Ecuador

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

IDC 15 18:41:40.8±1.0,35°97N±27.12E,h0km,ML3.6/m3.7/1, mbtmp3.7/17,ML3.2/5,MS2.5/1,Error ellipse: s-maj=20.3km s-min=13.3km az=0.0, Gll 15 18:41:46.8±0.0,35°35N±0°03'27.442E±0.009, h20km,MW3.7,confirmed, ISK 15 18:41:47.7,35°68N±27.08E,h64km±2km,ML3.4/13, AFAD 15 18:41:48.9,35°86N±27.19E,h29km±1km,MW3.5, ATH 15 18:41:49.0±0.3,35°78N±27.01E,h30km±5km,ML3.3/9, Manual Solution by A. Aguilera-First location: 2/19/06/15 18:43:01, This location: 2/19/06/15 18:37:48 ML, Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 2 km, THE 15 18:41:50.2,36°N±2°7E±,h34km±6km,M3.3/12, MLh3.3/12, ISC 15 18:41:46.7±0.7,35.66N±0.03±27.10E±0.03,h61km±6km, n135,e2810/127,mb3.5/11,D3,Decanecean Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.



Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like MLSB, DDIM, AYDIN, etc.

2019 JUN

Main table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like FINES, HFS, EKA, etc.

15d 19h

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like STEI, STEI, KONS, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DAVA, DAMUELS, STEBNIČKA HUTA, BRG, etc.

NEIC 15 20:01:58.9:2.9, 43:20N:105:19W, hOkm, mbTm3.8/2, ML3.7/2, Error ellipse: s-maj=82.8km s-min=9.4km

NEIC 15 20:02:01.5:1.3, 43:73N:0:05:105:33W:0:05, hOkm, 1km, ML3.1/38, Error ellipse: s-maj=9.7km s-min=2.6km

ISC 15 20:02:02.0:1.1, 43:72N:0:06:105:34W:0:07, hOkm, n22, 1519:21, Wyoming

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RSD, K22A, LAO, RLMT, etc.

NEIC 15 20:16:39.0:0.5, 35:798N:0:006:96:66W:0:01, h7km, 2km, Error ellipse: s-maj=1.5km s-min=1.0km az=89.0

NEIC 15 20:16:39.0:0.4, 35:798N:0:006:96:66W:0:01, h7km, 2km, mb\_Lg1.9/4, ML2.0/20, ML2.0/32, Error ellipse: s-maj=1.5km s-min=1.0km az=92.0, Oklahoma

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DEOK, QUOK, OK029, etc.

CATAC 15 20:28:42.3:0.6, 10°N:2°8'2W:1, h28km, 3km, M3.5/8, MLV3.5/8, Error ellipse: s-maj=7.3km s-min=4.5km

UPR 15 20:28:42.6:1.2, 9:56N:82:23W, h15km, 9km, MW3.5

ISC 15 20:28:42.2:1.4, 9:50N:0:04:82:22W:0:05, h19km, 3km, n58, 0:47/70, 1C-3D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MLIR3, MCANO, DRKO, etc.

NEIC 15 20:34:35.9:1.3, 35:247N:0:010:97:742W:0:009, h4km, 2km, mb\_Lg2.2/32, ML2.5/19, ML2.4/40, Error ellipse: s-maj=1.5km s-min=0.9km az=159.0

NEIC 15 20:34:35.8:1.2, 35:252N:0:011:97:767W:0:011, h6km, 1km, Error ellipse: s-maj=1.6km s-min=1.4km az=219.0, Oklahoma

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FNO, OKCWS, X34A, CSTR, etc.

GII 15 20:42:53.9:0.0, 33:319N:0:002:35:437E:0:001, h1km, Mw1.6, confirmed

GRAL 15 20:42:54.9:0.3, 33:32N:35:44E, h7km, 10km, MD2.9

ISC 15 20:42:53.9:0.9, 33:32N:0:003:35:45E:0:03, h15km, 6km, n35, 0:46/51, Jordan-Syria region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MSAM, MTLA, KIRY, etc.

ISC 15 20:43:09.1:0.7, 5:09N:125:52E, hOkm, mb4.0/12, mbTm4.0/12, MS3.2/8, Error ellipse: s-maj=38.9km s-min=1.6km az=81.0

NEIC 15 20:43:16.9:1.8, 5:35N:0:04:126:36E:0:06, h5km, 9km, mb2/15, Error ellipse: s-maj=9.9km s-min=2.2km az=124.0

DJA 15 20:43:16.2:0.3, 5°N:2°12'6E, h10km, M4.4/12, mb4.9/3, mb4.5/8, MLV4.4/12, Mw(mb)4.2/3

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RCY, DQRL, AMID, etc.

ISC 15 20:43:09.1:0.7, 5:09N:125:52E, hOkm, mb4.0/12, mbTm4.0/12, MS3.2/8, Error ellipse: s-maj=38.9km s-min=1.6km az=81.0

NEIC 15 20:43:16.9:1.8, 5:35N:0:04:126:36E:0:06, h5km, 9km, mb2/15, Error ellipse: s-maj=9.9km s-min=2.2km az=124.0

DJA 15 20:43:16.2:0.3, 5°N:2°12'6E, h10km, M4.4/12, mb4.9/3, mb4.5/8, MLV4.4/12, Mw(mb)4.2/3

ISC 15 20:43:17.5:0.5, 5:33N:0:05:126:28E:0:10, h66km, n58, 1522:50, mb4.1/22, Mindanao

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SGGSI, DAV, TINTI, etc.

ISC 15 20:43:09.1:0.7, 5:09N:125:52E, hOkm, mb4.0/12, mbTm4.0/12, MS3.2/8, Error ellipse: s-maj=38.9km s-min=1.6km az=81.0

NEIC 15 20:43:16.9:1.8, 5:35N:0:04:126:36E:0:06, h5km, 9km, mb2/15, Error ellipse: s-maj=9.9km s-min=2.2km az=124.0

DJA 15 20:43:16.2:0.3, 5°N:2°12'6E, h10km, M4.4/12, mb4.9/3, mb4.5/8, MLV4.4/12, Mw(mb)4.2/3



Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC. Includes stations like Mont Dzumac, Mangatoinoka R, Charters Tower, etc.

15d 21h:58.8, 4.8, 5.87S; 153.17E, h50km, 41km, mb3.8/10, mbtmp4.1/11, ML2.0/1, Error ellipse: s-maj=34.7km s-min=20.7km az=73.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC. Includes stations like Port Moresby, DZM, WRA, ASAR, etc.

JMA 15:21:52:13.7, 0.5, 33°N, 1°14'22"E, h28km, MV3.6/21, FAR E OFF IZU ISLANDS

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC. Includes stations like Boso 1, Mitsune, Boso 3, etc.

NIED 15:21:55:50.6, 0.6, 33°N, 1°14'22"E, h4km, MW3.8, Moment Tensor Solution, s3 Moment tensor: Scale 10^14Nm

JMA 15:21:55:50.6, 0.6, 33°N, 1°14'22"E, h4km, MV3.8/25, FAR E OFF IZU ISLANDS

ISC 15:21:55:54.8, 1.4, 33.27N, 10.09, 142.4E, 0.1, h35km, n30, s1972/32, mb3.9/9, Off east coast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC. Includes stations like Boso 1, Mitsune, Boso 3, etc.

BUI 15:21:56:07.8, 2.1, 11S, 174.03W, h10km, mb6.4/77, mb5.8/77, Ms6.1/97, Ms7.5/94

NOU 15:21:56:08.7, 2.1, 43S, 173.95W, h0km, ML6.1/133, Tonga Islands

MOS 15:21:56:08.8, 1.1, 21.29S, 174.40W, h10km, mb6.0/69, MS6.3/40, Error ellipse: s-maj=7.5km s-min=7.1km az=76.6

ISC 15:21:56:09.5, 0.3, 21.19S, 174.54W, h0km, mb5.4/32, mbtmp5.4/34, ML5.6/2, MS5.9/23, Error ellipse: s-maj=12.6km s-min=12.2km az=155.0

IPGP 15:21:56:09.2, 2.1, 14S, 174.03W, h15km, Mw6.2, Fault plane solution: NP2: 215.00000°, 862.00000°, 1.80.00000°

ISC-PP 15:21:56:10.2, 1.8S, 174.17W, h5km, Mwppm6.4, Moment Tensor Solution, s24 Moment tensor: Scale 10^18Nm

NEIC 15:21:56:10.2, 2.1, 25S, 173.80W, h26km, Moment Tensor Solution, Duration: 488 Moment tensor: Scale 10^19Nm

NEIC 15:21:56:10.8, 1.8, 21.18S, 0.07, 174.17W, 0.09, h13km, 1km, mb6.0/200, Ms 20.6/0.675, Mw6.6/1.86, Mw6.6/1.36, Error ellipse: s-maj=14.6km s-min=11.1km az=104.0, Moment Tensor Solution, Moment tensor: Scale 10^18Nm

BGR 15:21:56:14.9, 2.1, 30S, 174.43W, h33km, Fault plane solution: Ms1.32000x10^18 NP1: 22.14000°, 857.08000°, 1.89.94000°; NP2: 184.27000°, 834.22000°, 1.75.07000°

GCMT 15:21:56:15.8, 0.1, 21.33S, 174.01W, h15km, MW6.1/176, Moment Tensor Solution, s163,c375, s176,c647, Duration: 287 Moment tensor: Scale 10^18Nm

λ86.00000°, NP2: 23.00000°, δ62.00000°, λ92.00000°, Principal axes: T 1.6710, Plg3.0000°, Azm288.0000°, N 0.2190, Plg2.0000°, Azm203.0000°, P -1.8990, Plg17.0000°, Azm112.00000°, nsta1 refers to body waves, cutoff=40s, nsta2 refers to surface/mantle waves, cutoff=50s, Triangular moment-rate function

ISC 15:21:56:09.8, 0.3, 21.21S, 0.03, 174.17W, 0.03, h10km, 1km, h83km: pp-P, n215, s19565/2239, mb5.8/251, MS6.0/419, 183C-63D, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC, h, m, s, ISC. Includes stations like NIUE, NIUE, NIUE, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like CPWZ, GWZ, TMWZ, TRWZ, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like YNG, CTAO, CTAO, CTAO, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like KAKADU, KAKADU, FORT, FORT, etc.











RDOG	baz=225	Red Dog Mine	89.39	4	P	P	22 09 07.1	+0.9
RDOG	comp=Z,64nm,1.2s				IAMB	IAMB	22 09 10.1	
RDOG	comp=Z,6um,21.0s				IAMS_20	IAMS_20	22 42 48.2	
RDOG	baz=190	Red Dog Mine	89.39	4	P	P	22 09 07.6	+1.4
RDOG	comp=Z,4um,18.0s				S	S	22 19 58.2	+2.2
ENH	baz=190	Enshi	89.42	303	P	P	22 09 07.5	+0.2
ENH	comp=Z,4um,18.0s				IAMS_20	IAMS_20	22 48 31.7	
ENH	Enshi	Liard River Hi	89.42	303	P	P	22 09 09.4	+2.1
LIRD	baz=224,SNR=8.5		89.44	22	P	P	22 09 08.9	+2.3
LIRD	baz=224				S	S	22 19 57.4	+0.7
I26K	Coal Creek Min	89.45	13	IAMS_20	IAMS_20		22 45 12.3	
I26K	Coal Creek Min	89.45	13	P	P		22 09 08.4	+1.9
I26K	baz=209				S	S	22 19 58.4	+1.8
C16K	Lisburne Hills	89.46	3	IAMS_20	IAMS_20		22 43 01.3	
C16K	Lisburne Hills	89.46	3	P	P		22 09 08.1	+1.6
C16K	baz=188				S	S	22 19 55.9	-0.6
K29M	Barlow Dome	89.46	15	IAMS_20	IAMS_20		22 44 55.5	
K29M	Barlow Dome	89.46	15	P	P		22 09 08.7	+1.9
K29M	baz=214,SNR=118				S	S	22 19 57.6	+0.6
G22K	baz=214				S	S	22 09 08.3	+1.6
G22K	baz=201				P	P	22 19 58.2	+1.3
F21K	Alatna River	89.51	8	IAMS_20	IAMS_20		22 53 02.0	
F21K	Alatna River	89.51	8	P	P		22 09 08.1	+1.3
F21K	baz=199,SNR=43				S	S	22 19 57.2	+0.1
G23K	Bananza Creek	89.51	9	P	P		22 09 08.7	+1.8
G23K	baz=202,SNR=32				S	S	22 19 58.7	+1.5
MAYO	Mayo, Yukon	89.67	16	P	P		22 09 09.8	+2.2
MAYO	baz=215,SNR=8.8				S	S	22 20 01.6	+2.8
EGMT	Eagleton	89.78	37	P	P		22 09 08.0	-0.6
EGMT	comp=Z,9um,19.0s				IAMS_20	IAMS_20	22 45 42.4	
C17K	Delong Mountai	89.78	4	P	P		22 09 10.0	+1.9
C17K	baz=190				S	S	22 20 02.3	+2.6
H25L	Birch Creek	89.80	11	P	P		22 09 09.3	+1.1
H25L	baz=206				S	S	22 19 59.3	-0.5
J29N	Klondike Camp	89.80	15	IAMS_20	IAMS_20		22 47 27.5	
J29N	Klondike Camp	89.80	15	P	P		22 09 11.1	+2.7
J29N	baz=213				S	S	22 20 03.0	+2.9
G24K	Hadweenzic Riv	89.91	10	IAMS_20	IAMS_20		22 49 26.3	
G24K	Hadweenzic Riv	89.91	10	P	P		22 09 10.0	+1.3
G24K	baz=205,SNR=17				S	S	22 20 00.9	0.0
F22K	John River	89.95	8	P	P		22 09 10.3	+1.4
F22K	baz=200,SNR=11				S	S	22 20 04.5	+3.3
COLD	Coldfoot	89.96	9	P	P		22 09 10.8	+1.8
COLD	baz=202				S	S	22 20 03.0	+1.7
ZEK	Zeya	90.02	330	eP	eP		22 09 11.1	+1.6
ZEK	comp=N,30nm,1.8s				ePmax	ePmax	22 12 50.5	
ZEK	comp=Z,70nm,1.9s				pmax	pmax	22 19 42.0	
ZEK	comp=E,400nm,9.6s				pmax	pmax	22 21 02.6	-7.0
ZEK	comp=N,400nm,6.3s				pmax	pmax		
ZEK	comp=Z,1um,7.3s				pmax	pmax		
ZEK	comp=Z,400nm,10.0s				smax	smax		
ZEK	comp=E,600nm,10.3s				smax	smax		
I27K	Kandik River	90.03	13	P	P		22 09 10.9	+1.6
I27K	baz=210				S	S	22 20 04.1	+1.9
C18K	Utukok River	90.10	5	IAMS_20	IAMS_20		22 43 20.6	
C18K	Utukok River	90.10	5	P	P		22 09 11.1	+1.5
C18K	baz=192,SNR=22				S	S	22 20 03.7	+1.1
PLPT	Palo Pinto	90.11	55	P	P		22 09 25.5	
PLPT	comp=Z,209nm,1.8s				IAMB	IAMB		
GYA	Guiyang	90.12	298	P	P		22 09 12.4	+1.6
GYA	comp=Z,6um,21.0s				pP	pP	22 09 17.9	+0.5
GYA	comp=Z,2um,8.6s				SKS	SKS	22 19 37.1	-5.3
GYA	comp=Z,110nm,2.0s				S	S	22 20 06.3	+1.5
GYA	comp=Z,2um,8.6s				pmax	pmax		
GYA	comp=Z,2um,18.9s				LR	LR		
GYA	comp=Z,3um,19.4s				LR	LR		
BILL	Bilibino	90.14	353	P	P		22 09 10.1	+0.4
BILL	Bilibino	90.14	353	eP	eP		22 09 10.8	+1.1
BILL	comp=Z,83nm,1.9s				pmax	pmax		
MMPY	Sheldon Lake	90.17	18	P	P		22 09 12.2	+2.2
MMPY	baz=219,SNR=32				S	S	22 20 05.7	+2.2
E20K	Nigu River	90.18	7	P	P		22 09 11.5	+1.5
E20K	baz=197,SNR=86				S	S	22 20 05.6	+2.2
G25K	Bearman Lake	90.20	11	P	P		22 09 11.3	+1.3
D19K	Kuna River	90.21	6	P	P		22 09 11.5	+1.4
D19K	baz=195,SNR=39				S	S	22 20 05.0	+1.3
I28M	Miner Creek	90.25	14	IAMS_20	IAMS_20		22 46 13.5	
I28M	Miner Creek	90.25	14	P	P		22 09 11.8	+1.4
I28M	baz=212,SNR=61				S	S	22 20 05.8	+1.5
TGNT	Hyland Airport	90.26	20	P	P		22 09 12.4	+2.0
TGNT	baz=222,SNR=7.3				S	S	22 20 03.1	-1.3
BEAVL	Fort Liard	90.35	22	P	P		22 09 13.0	+2.1
BEAVL	baz=225,SNR=16				S	S	22 20 06.9	+1.7
J30M	Hart River	90.36	15	IAMS_20	IAMS_20		22 45 16.3	
J30M	Hart River	90.36	15	P	P		22 09 12.7	+1.7
J30M	baz=215,SNR=68							

J30M	baz=215				S	S	22 20 08.2	+2.8
G004	Toledo Observa	90.40	123	P	P		22 09 11.2	-1.2
MT03	Montecristo	90.41	75	P	P		22 09 11.6	-0.9
MT03	comp=Z,68nm,1.3s				IAMB	IAMB	22 09 27.7	
WHTX	Lake Whitney,	90.42	56	IAMS_20	IAMS_20		22 44 11.1	
TIV	Taiyuan	90.44	311	eP	eP		22 09 13.5	+1.6
TIV	comp=Z,67nm,0.6s				SKS	SKS	22 19 44.1	+0.5
TIV	comp=Z,1um,3.5s				pmax	pmax	22 20 11.4	+0.6
TIV	comp=Z,3um,19.9s				LR	LR		
TIV	comp=Z,1um,21.3s				LR	LR		
SLVN	Son La	90.45	293	P	P		22 09 12.9	+0.6
SLVN	Son La	90.45	293	P	P		22 09 14.7	+2.3
ESQI	Esquipulas	90.48	75	IAMB	IAMB		22 09 12.7	+0.1
ESQI	comp=Z,164nm,1.4s						22 09 33.9	
I29M	Ogilvie Camp,	90.55	14	IAMS_20	IAMS_20		22 45 33.2	
I29M	Ogilvie Camp,	90.55	14	P	P		22 09 13.1	+1.4
I29M	baz=213				S	S	22 20 07.6	+0.7
D20K	Etvluk River	90.57	6	P	P		22 09 13.2	+1.4
D20K	baz=196,SNR=66				S	S	22 20 08.2	+1.2
WMOK	Wichita Mounta	90.58	53	P	P		22 09 12.8	+0.2
WMOK	Wichita Mounta	90.58	53	P	P		22 09 12.8	+0.2
WMOK	comp=Z,39nm,1.5s				pmax	pmax		
WMOK	comp=Z,4um,18.0s				MLR	MLR		
E22K	Anaktuvuk Pass	90.58	8	IAMS_20	IAMS_20		22 53 28.3	
E22K	Anaktuvuk Pass	90.58	8	P	P		22 09 13.2	+1.4
E22K	baz=201				S	S	22 20 08.2	+1.1
F24K	Squaw Lake	90.59	10	IAMS_20	IAMS_20		22 53 14.3	
F24K	Squaw Lake	90.59	10	P	P		22 09 13.6	+1.7
F24K	baz=204,SNR=32				S	S	22 20 10.1	+2.9
H27K	Steamboat Moun	90.59	13	IAMS_20	IAMS_20		22 52 37.4	
H27K	Steamboat Moun	90.59	13	P	P		22 09 13.5	+1.5
H27K	baz=210				S	S	22 20 08.9	+1.7
E21K	Kilik River	90.60	7	P	P		22 09 13.0	+1.1
E21K	baz=199				S	S	22 20 08.3	+1.0
C19K	Lookout Ridge	90.67	5	IAMS_20	IAMS_20		22 53 50.9	
C19K	Lookout Ridge	90.67	5	P	P		22 09 13.7	+1.4
C19K	baz=193				S	S	22 20 08.6	+0.7
KOTAN	Kotanelee Riv	90.68	23	P	P		22 09 14.5	+2.1
KOTAN	baz=226				S	S	22 20 11.1	+2.9
B18K	Kokolik River	90.76	4	P	P		22 09 14.2	+1.7
B18K	baz=191,SNR=15				S	S	22 20 09.0	+0.5
G26K	Porcupine Riv	90.78	11	IAMS_20	IAMS_20		22 52 20.5	
G26K	Porcupine Riv	90.78	11	P	P		22 09 14.8	+2.1
G26K	baz=208				S	S	22 20 12.4	+3.6
E23K	Chandalar	90.82	9	P	P		22 09 14.6	+1.5
E23K	baz=203				S	S	22 20 11.5	+2.1
LHMI	Lhok Sumawe	90.83	275	P	P		22 09 13.8	-0.4
LHMI	Lhok Sumawe	90.83	275	P	P		22 09 15.5	+1.3
LHMI	Lhok Sumawe	90.83	275	P	P		22 09 17.0	+2.8
HKT	Hockley	90.86	58	IAMS_20	IAMS_20		22 46 46.6	
HKT	Hockley	90.86	58	iP	iP		22 09 16.2	+2.3
XLT	XilinHaoTe	90.86	317	eP	eP		22 09 15.1	+1.3
XLT	comp=Z,74nm,1.9s				pP	pP	22 09 25.9	+0.9
XLT	comp=Z,2um,9.0s				PP	PP	22 12 46.0	-4.0
XLT	comp=Z,160nm,21.3s				SKS	SKS	22 19 45.0	-0.8
XLT	comp=Z,2um,17.9s				pmax	pmax		
I30M	Mount Dempster	90.88	15	IAMS_20	IAMS_20		22 46 11.1	
I30M	Mount Dempster	90.88	15	P	P		22 09 15.0	+1.6
I30M	baz=215				S	S	22 20 12.1	+2.0
LCO	Las Campanas	90.97	122	P	P		22 09 13.6	-1.4
LCO	Las Campanas	90.97	122	P	P		22 09 13.6	-1.4
LCO	comp=Z,219nm,1.6s				pmax	pmax		
MLSI	Meulaboh, Aceh	90.99	274	P	P		22 09 16.5	+1.5
E24K	Your Creek	91.00	9	IAMS_20	IAMS_20		22 49 49.4	
E24K	Your Creek	91.00	9	P	P		22 09 15.4	+1.6
E24K	baz=204,SNR=22				S	S	22 20 13.5	+2.5
F25K	Christian Riv	91.03	11	IAMS_20	IAMS_20		22 46 03.9	
F25K	Christian Riv	91.03	11	P	P		22 09 16.1	+2.1
F25K	baz=206				S	S	22 24 13.4	+3.1
OGNE	Ogallala	91.03	46	IAMS_20	IAMS_20		22 45 24.0	
BMAR	Burnt Mountain	91.06	11	P	P		22 09 14.9	+0.8
G27K	Doyon Strip	91.07	12	IAMS_20	IAMS_20		22 46 15.0	
G27K	Doyon Strip	91.07	12	P	P		22 09 16.0	+1.9
G27K	baz=210,SNR=52				S	S	22 20 14.5	+2.9
Z35A	Perchaven, San	91.14	55	IAMS_20	IAMS_20		22 46 04.0	
D22K	Aiyikyak River	91.18	8	P	P		22 09 16.2	+1.6
D22K	baz=200,SNR=35				S	S	22 20 13.6	+1.1
C21K	Knifeblade Rid	91.19	7	P	P		22 09 16.5	+1.9
C21K	baz=198				S	S	22 20 13.6	+1.1
RSSD	Black Hills	91.21	43	IAMS_20	IAMS_20		22 48 10.7	
RSSD	Black Hills	91.21	43	P	P		22 09 17	







15d 21h

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Table with multiple columns containing station names, call signs, frequencies, and other technical details. The table is organized into several vertical sections, each starting with a call sign or station name. The data includes various radio frequencies and associated technical parameters.





NEIC 15 22:55:04.2, 30.655S, 178.10W, h47km
GCMT 15 22:55:12.1, 0.1, 30.933S, 0.01:177.79W, h48km
MW7, 3/176, Moment Tensor Solution... s176,c494;
s176,c886; Duration: 1068 Moment tensor: Scale 10^20
Nm; Mn:0.97±0.0; Mo:0.08±0.0; M0:0.89±0.0;
Mm:0.07±0.1; M0:0.27±0.2; M1:0.52±0.1; Best double
couple: Mo:1.10100±0.1020 NP1:0.201000000, 831.000000,
7.9700000. NP2:0.1300000, 559.00000, 1.8600000.
Principal axes: T 1.1030, Plg76.0000, Azm271.0000; N
-0.0020, Plg4.0000, Azm15.0000; P -1.1000,
Plg14.0000, Azm106.0000; nst1a refers to body waves,
cutoffs=50s, nstfac=0.05, nstf=0.05, nstf=0.05,
cutoffs=50s. Triangular moment-rate function

ISC 15 22:55:02.5, 0.1, 30.815S, 0.03:178.03W, 0.03, h39km, 1km,
h39km; p-P, n2800, e2815/2829, mb6.7/264, MS7.1/617,
207C-70D, Kermadec Islands

Table with columns: Code, Station Name, Az, Op, Phase, ID, Time, Res. Lists various seismic stations and their coordinates.

Table with columns: CTZ, THZ, KHZ, MSVF, etc. Lists seismic events with their time, magnitude, and location.

Table with columns: PPTF, PPT, TVO, GLAD, RMQ, HNR, etc. Lists seismic events with their time, magnitude, and location.











KMI Kunming	93.99	297	↑P	P	23 08 17.3	+0.4
KMI			PP	PP	23 12 07.7	+3.7
KMI			S	S	23 19 28.1	+3.3
KMI			SS	SS	23 25 51.6	+6.0
KMI	comp=Z,150nm,2.7s		pmax	pmax		
KMI	LR	LR				
KMI	comp=Z,7.7um,17.5s					
KMI	LR	LR				
KMI	comp=Z,4.8um,19.0s					
KMI	LR	LR				
KMI	comp=Z,10.4um,20.5s					
D08A	94.00	36	IAMS_20	IAMS_20	23 48 50.0	
Wollman Farm, Heihe						
HEH	94.04	328	eP	P	23 08 15.0	-1.2
HEH			SKS	SKSac	23 18 46.0	-1.7
HEH			S	ScS	23 19 25.9	+1.0
HEH			pmax	pmax		
HEH	comp=Z,13um,10.3s					
HEH	LR	LR				
HEH	comp=Z,4.8um,20.3s					
HEH	LR	LR				
HEH	comp=Z,4.4um,22.3s					
HEH	LR	LR				
HEH	comp=Z,9.1um,20.6s					
N20K	94.06	12	P	P	23 08 15.5	-0.7
Mount Spurr						
N20K	S	S			23 19 27.4	+4.0
SPCR	94.06	12	P	P	23 08 15.3	-0.9
Spurr Chakacha						
SPCR	S	S			23 19 26.8	+3.3
AF01	94.11	120	P	P	23 08 18.1	+0.4
San Pedro de A			IAMB	IAMB	23 08 46.9	
AF01						
AF01	comp=Z,6.46nm,1.3s					
CRAG	94.12	24	P	P	23 08 16.3	-0.1
Craig					23 08 17.4	+1.0
CRAG	94.12	24	P	P		
Craig						
CRAG	comp=Z,17.5um,8.7s					
CRAG	S	S			23 19 33.5	+9.4
TIV	94.12	312	eP	P	23 08 17.0	0.0
Taiyuan			SS	SS	23 12 04.0	-2.0
TIV			SS	SS	23 25 49.3	+2.4
TIV			pmax	pmax		
TIV	comp=Z,15um,12.0s					
TIV	LR	LR				
TIV	comp=Z,4.4um,22.0s					
TIV	LR	LR				
TIV	comp=Z,5.6um,23.4s					
TIV	LR	LR				
TIV	comp=Z,9.7um,23.4s					
P18A	94.16	46	IAMS_20	IAMS_20	23 51 48.9	
Preston Nutter						
TA02	94.17	116	P	P	23 08 18.4	+0.8
Huaiquique			IAMB	IAMB	23 08 43.8	
TA02						
PB01	94.22	117	P	P	23 08 18.1	0.0
IPOC Station P			IAMB	IAMB	23 08 43.4	
PB01						
PLID	94.23	39	IAMS_20	IAMS_20	23 47 37.2	
Pearl Lake						
RUBB	94.26	26	IAMS_20	IAMS_20	23 47 00.9	
Prince Rupert						
L18K	94.29	10	P	P	23 08 17.4	+0.4
Granite Mounta			S	S	23 19 29.8	+4.6
L18K	comp=Z,198um,SNR=64					
XAN	94.34	307	P	P	23 08 17.8	-0.3
Xi'an			PP	PP	23 08 22.9	+4.4
XAN			PP	PP	23 12 04.0	-2.0
XAN			SKS	SKSac	23 18 51.8	+1.5
XAN			S	pmax	23 19 27.5	+0.4
XAN	comp=Z,190nm,1.2s					
XAN	pmax	pmax				
XAN	comp=Z,2.0um,9.3s					
XAN	LR	LR				
XAN	comp=Z,6.3um,21.1s					
XAN	LR	LR				
XAN	comp=Z,4.2um,21.3s					
XAN	LR	LR				
M19K	94.34	11	P	P	23 08 17.3	-0.1
Big River Lodg						
M19K	comp=Z,80um,20.1s					
M19K	comp=Z,200um				23 19 32.0	+6.2
FIS	94.39	13	IAMS_20	IAMS_20	23 46 13.2	
Fire Island						
BSUT	94.39	45	IAMS_20	IAMS_20	23 53 27.9	
Blindstream Ca						
GAMB	94.40	3	P	P	23 08 17.5	+0.1
Gambell			IAMB	IAMB	23 08 23.3	
GAMB	comp=Z,375nm,1.2s					
GAMB	IAMS_20	IAMS_20			23 46 09.0	
GAMB	comp=Z,8.1um,21.0s					
GAMB	P	P			23 08 18.2	+0.8
GAMB	S	S			23 19 31.3	+5.3
RC01	94.43	13	P	P	23 08 17.5	-0.3
Rabbit Creek A			IAMB	IAMB	23 08 27.9	
RC01	94.43	13	P	P	23 08 17.8	+0.1
Rabbit Creek A			S	S	23 19 31.0	+4.4
RC01	S	S				
HIN	94.49	15	IAMS_20	IAMS_20	23 45 60.0	
Hinchinbrook I						
PWL	94.51	14	P	P	23 08 17.7	-0.4
Port Wells			IAMB	IAMB	23 08 25.3	
PWL	comp=Z,508nm,1.6s					
PWL	IAMS_20	IAMS_20			23 46 05.4	
PWL	comp=Z,6.1um,20.0s					
PWL	P	P			23 08 18.2	+0.1
PWL	S	S			23 19 31.9	+4.7
L19K	94.53	11	P	P	23 08 18.3	+0.1
White Mountain			S	S	23 19 31.5	+4.1
L19K	comp=Z,199um,SNR=81					
K17K	94.53	9	IAMS_20	IAMS_20	23 48 08.1	
lditaro						
K17K	comp=Z,52um,20.0s					
K17K	comp=Z,196um,SNR=36					
M20K	94.53	12	P	P	23 08 17.5	-0.8
Styx River			S	S	23 19 31.5	+3.9
M20K	S	S				
V35K	94.54	25	P	P	23 08 19.5	+1.2
Ketchikan			S	S	23 19 36.0	+8.3
V35K	comp=Z,218um,SNR=12					
KAIM	94.55	16	IAMS_20	IAMS_20	23 45 35.8	
Kayak Island						
KAIM	comp=Z,62um,22.0s					
KAIM	comp=Z,208um				23 19 35.8	+8.2
SUA	94.58	13	P	P	23 08 18.4	-0.2
Susitna One			S	S	23 19 32.3	+4.2
SUA	comp=Z,203um,SNR=24					
ATAH	94.59	101	LR	LR	23 40 49.7	
Atahualpa						
U33K	94.64	23	P	P	23 08 19.6	+0.8
Whale Pass			S	S	23 19 37.1	+8.6
U33K	comp=Z,217um,SNR=15					
SIT	94.67	22	IAMS_20	IAMS_20	23 43 06.2	
Sitka						
SIT	comp=Z,53um,20.0s					
SIT	comp=Z,215um				23 08 20.4	+1.5
SIT	P	P			23 08 19.5	+0.6
SIT	S	S			23 19 38.6	+1.0
MCRA	94.70	98	P	P	23 08 21.3	+1.0
Macar, Loja						
CCIG	94.75	74	P	P	23 08 20.5	0.0
Comitan			IAMS_20	IAMS_20	23 45 11.0	
CCIG	comp=Z,56um,19.0s					
HUEH	94.79	75	P	P	23 08 20.9	+0.2
Huehuetenango						

GLI	94.79	15	IAMS_20	IAMS_20	23 45 50.9	
Glacier Island						
GLI	comp=Z,57um,20.0s					
GLI	94.79	15	P	P	23 08 19.9	+0.5
Glacier Island						
GLI	comp=Z,206um,SNR=26				23 19 35.7	+6.0
EYAK	94.79	15	IAMS_20	IAMS_20	23 46 08.1	
Cordova Ski Ar						
EYAK	comp=Z,78um,21.0s					
EYAK	94.79	15	P	P	23 08 21.4	+2.0
Cordova Ski Ar					23 08 19.6	+0.2
EYAK	94.79	15	P	P		
Cordova Ski Ar						
EYAK	comp=Z,207um,SNR=11				23 19 35.0	+5.4
J16K	94.79	8	P	P	23 08 19.8	+0.5
Amvik River			S	S	23 19 37.3	+7.7
J16K	comp=Z,194um,SNR=36					
FID	94.81	15	IAMB	IAMB	23 08 19.7	+0.2
Port Fidalgo			IAMB	IAMB	23 08 29.3	
FID	comp=Z,321nm,1.4s				23 46 18.3	
PB11	94.82	116	P	P	23 08 21.2	+0.3
IPOC Station P			IAMB	IAMB	23 08 46.1	
PB11	comp=Z,341nm,1.1s					
SUCK	94.84	16	IAMS_20	IAMS_20	23 45 55.3	
Suckling Hills						
SKT	94.91	12	IAMS_20	IAMS_20	23 46 54.0	
Skwentna						
SKT	comp=Z,63um,21.0s					
SKT	comp=Z,68um,21.0s				23 08 18.6	-1.3
SKT	comp=Z,202um,SNR=25					
SKT	S	S			23 19 33.8	+3.1
M22K	94.96	13	P	P	23 08 20.0	-0.2
Willow			S	S	23 19 37.2	+6.1
M22K	comp=Z,203um,SNR=13					
L20K	94.97	11	P	P	23 08 19.7	-0.5
Farewell, AK			S	S	23 19 37.9	+6.7
L20K	comp=Z,200um					
KNK	94.98	14	IAMS_20	IAMS_20	23 46 42.0	
Knik Glacier						
KNK	comp=Z,52um,21.0s					
KNK	comp=Z,205um,SNR=19				23 08 20.5	+0.2
KNK	S	S			23 19 37.2	+5.8
PB08	94.99	117	P	P	23 08 24.3	+2.4
IPOC Station P					23 08 19.0	-1.4
BGLC	95.00	17	P	P		
Bering Glacier			S	S	23 19 37.8	+6.4
BGLC	comp=Z,209um					
PMR	95.01	13	P	P	23 08 22.0	+1.6
Palmer					23 08 20.4	0.0
PMR	comp=Z,204um,SNR=13					
PMR	S	S			23 19 37.4	+5.9
LLL	95.01	32	P	P	23 08 20.5	-0.2
Lillooet			IAMS_20	IAMS_20	23 46 46.3	
LLL	comp=Z,52um,20.0s					
AP01	95.08	115	P	P	23 08 23.0	+1.2
Chacalluta			IAMB	IAMB	23 08 45.4	
AP01	comp=Z,401nm,1.1s					
J17K	95.09	8	IAMS_20	IAMS_20	23 49 51.5	
VAMB Dome						
J17K	comp=Z,43um,20.0s					
J17K	comp=Z,196um,SNR=34				23 08 21.1	+0.4
J17K	S	S			23 19 38.0	+5.8
S31K	95.12	21	IAMS_20	IAMS_20	23 48 38.2	
Pelican						
S31K	comp=Z,256um,20.0s					
S31K	comp=Z,214um,SNR=8.7				23 08 21.8	+0.9
S31K	S	S			23 19 41.9	+9.4
RDMU	95.13	45	IAMS_20	IAMS_20	23 54 30.8	
Red Mountain						
BERG	95.14	16	P	P	23 08 21.0	0.0
Berg Lake			IAMS_20	IAMS_20	23 46 05.3	
BERG	comp=Z,7.4um,21.0s					
WRAK	95.14	24	P	P	23 08 22.0	+0.9
Wrangell Islan			S	S	23 19 41.9	+9.0
WRAK	comp=Z,218um,SNR=6.4					
GO01	95.23	116	P	P	23 08 24.4	+1.2
Chusmiza			IAMB	IAMB	23 08 00.2	
GO01	comp=Z,275nm,1.3s					
S32K	95.24	22	IAMS_20	IAMS_20	23 43 34.4	
Killisnoo						
S32K	comp=Z,6.1um,20.0s					
S32K	comp=Z,216um				23 08 22.3	+0.8
S32K	S	S			23 19 41.8	+8.1
T33K	95.25	23	P	P	23 08 22.9	+1.4
Petersburg			S	S	23 19 44.9	+1.1
T33K	comp=Z,217um		</			

CTG	baz=210,SNR=11	S	S	23 19 46.4 +4.1
CTGM	baz=210 Chitina Glacie	96.22 17	IAMS_20 IAMS_20	23 43 30.8
WAT1	comp=Z,150nm,22.0s Susitna Watana	96.25 13	P	23 08 26.1 0.0
WAT1	baz=205	S	S	23 19 47.4 +5.1
COHC	baz=205 Cochancay	96.27 97	P	23 08 28.4 +1.0
COHC	baz=205 Cochancay	96.27 97	P	23 08 29.4 +2.0
CD2	comp=Z,114um,comp=Z,8um,comp=Z,174nm,2.2s	96.29 302	P	23 08 27.5 +0.4
CD2	CD2	PP	PP	23 12 22.1 +0.9
CD2	CD2	SKS	SKSac	23 19 01.3 +0.6
CD2	CD2	SS	SS	23 19 47.3 +2.6
CD2	CD2	SS	SS	23 26 21.4 +3.5
CD2	comp=Z,150nm,1.0s		pmax	pmax
CD2	comp=Z,25um,13.2s		pmax	pmax
CD2	CD2	LR	LR	
CD2	comp=Z,86um,21.6s		LR	LR
CD2	comp=Z,80um,34.8s		LR	LR
CD2	CD2	LR	LR	
PLBC	comp=Z,70um,30.4s Pleasant Camp	96.31 20	P	23 08 26.8 +0.5
PLBC	baz=214	S	S	23 19 52.4 +1.0
T35M	baz=214 Bob Quinn	96.31 24	P	23 08 27.5 +1.1
T35M	baz=219	S	S	23 19 54.1 +1.1
LOHW	baz=219 Long Hollow	96.33 42	IAMS_20 IAMS_20	23 53 39.3
O28M	comp=Z,41um,18.0s Mount Upton	96.35 18	IAMS_20 IAMS_20	23 47 36.3
O28M	comp=Z,53um,21.0s Mount Upton	96.35 18	P	23 08 27.4 +0.5
O28M	baz=212,SNR=15	S	S	23 19 50.8 +7.0
SEY	baz=212 Seymchan	96.37 347	LR	23 47 07.1
SEY	comp=Z,76um,21.6s, baz=196,slow=32	96.37 347	CF	23 08 25.8 -0.7
SEY	SEY		pmax	pmax
SEY	comp=Z,147nm,1.1s		MLR	MLR
TNA	comp=Z,37um,20.0s Tin City	96.37 4	IAMS_20 IAMS_20	23 47 23.3
TNA	comp=Z,50um,20.0s Tin City	96.37 4	P	23 08 27.0 +0.5
TNA	baz=188,SNR=15	S	S	23 19 48.4 +5.2
O29M	baz=188 Mount Kennedy	96.38 19	IAMS_20 IAMS_20	23 45 28.3
O29M	comp=Z,56um,20.0s Mount Kennedy	96.38 19	P	23 08 27.7 +0.8
O29M	baz=213	S	S	23 19 52.2 +8.4
F14K	baz=213 Arctic Creek	96.40 5	P	23 08 27.1 +0.4
F14K	baz=190	S	S	23 19 49.1 +5.7
BW06	baz=190 Boulder Array	96.44 44	P	23 08 27.7 0.0
PDAR	PDAR	96.44 44	P	23 08 27.6 -0.1
PDAR	comp=Z,15nm,0.8s, baz=196,slow=2.8,SNR=65		PP	23 12 22.1 -0.3
PDAR	comp=Z,7.6nm,1.0s, baz=220,slow=8.9,SNR=7.5		PKKP	23 25 14.4 -0.8
PDAR	comp=Z,20nm,0.7s, baz=79,slow=3.8,SNR=14		PKPPdf	23 33 26.6 +3.1
PDAR	comp=Z,5.3nm,1.0s, baz=322,slow=0.9,SNR=6.9		LR	23 44 33.8
MSO	comp=Z,20um,22.0s, baz=226,slow=31			
MSO	comp=Z,15nm,0.8s Missoula	96.45 38	IAMS_20 IAMS_20	23 49 05.9
BPMT	comp=Z,73um,20.0s Black Pine Rid	96.47 39	P	23 08 27.5 -0.3
KH7K	comp=Z,73um,20.0s Kantishna Hill	96.47 12	P	23 08 25.8 -1.3
H17K	comp=Z,47um,21.0s Granite Mounta	96.47 8	IAMS_20 IAMS_20	23 50 49.1
H17K	baz=195,SNR=31	S	S	23 08 27.5 +0.5
H17K	baz=195	S	S	23 19 49.3 +5.2
TRF	baz=195 Thorofore Moun	96.49 12	P	23 08 27.0 -0.3
TRF	baz=203	S	S	23 19 47.3 +2.6
HHC	baz=203 Hu-ho-hao-te	96.50 314	eP	23 08 27.3 -0.6
HHC	HHC		SKS	23 18 58.8 -2.7
HHC	HHC		SS	23 19 44.4 -1.3
HHC	HHC		SS	23 26 24.1 +3.4
HHC	comp=Z,31nm,0.9s		pmax	pmax
HHC	comp=Z,4um,6.7s		pmax	pmax
HHC	comp=Z,35um,20.1s		LR	LR
HHC	comp=Z,43um,20.1s		LR	LR
HHC	comp=Z,85um,22.1s		LR	LR
J20K	comp=Z,85um,22.1s Nowinta River	96.52 10	IAMS_20 IAMS_20	23 47 58.5
J20K	comp=Z,48um,21.0s Nowinta River	96.52 10	P	23 08 27.1 -0.1
J20K	baz=200	S	S	23 19 49.4 +4.9
CHUM	baz=200 Lake Minchum	96.54 11	P	23 08 26.9 -0.3
CHUM	baz=202	S	S	23 19 48.8 +4.1
HARP	baz=202 HAARP	96.57 15	P	23 08 28.0 +0.5
HARP	baz=207,SNR=8.5	S	S	23 19 52.6 +7.5
ZEA	baz=207 Zeya	96.59 331	eP	23 08 27.3 -0.5
ZEA	ZEA		e	23 12 22.2
ZEA	ZEA		e	23 19 01.4
ZEA	comp=N,700nm,7.5s		pmax	pmax
ZEA	comp=Z,5um,11.8s		pmax	pmax
ZEA	comp=N,40nm,1.1s		pmax	pmax
ZEA	comp=Z,80nm,1.1s		pmax	pmax
SKAG	comp=Z,80nm,1.1s Skagway	96.62 20	IAMS_20 IAMS_20	23 48 02.7
SKAG	comp=Z,56um,20.0s Skagway	96.62 20	P	23 08 31.4 +3.7
SKAG	baz=215,SNR=10.0	P	P	23 08 28.9 +1.1
SKAG	baz=215	S	S	23 19 53.8 +8.3
GCSA	baz=215 Galena City Sc	96.67 9	P	23 08 28.3 +0.5
GCSA	baz=198,SNR=18	S	S	23 19 51.4 +5.7
P30M	baz=198 Million Dollar	96.68 19	P	23 08 29.1 +1.0
P30M	baz=214	S	S	23 19 54.7 +8.5
735A	baz=214 Kennedy	96.69 61	IAMS_20 IAMS_20	23 51 59.3
DHY	comp=Z,40um,18.0s Denali Highway	96.71 14	P	23 08 28.1 -0.2
DHY	baz=206,SNR=25	S	S	23 19 52.0 +5.4
S34M	baz=206 Telegraph Cree	96.73 23	IAMS_20 IAMS_20	23 46 38.8
S34M	comp=Z,49um,20.0s Telegraph Cree	96.73 23	P	23 08 29.1 +0.8
S34M	baz=219,SNR=26	S	S	23 19 57.3 +1.1
F15K	baz=219 North Star Dit	96.76 6	IAMS_20 IAMS_20	23 49 50.5
F15K	comp=Z,56um,21.0s North Star Dit	96.76 6	P	23 08 28.6 +0.4
F15K	baz=191	S	S	23 19 50.7 +4.1
H18K	baz=191 Honhosa River	96.87 8	IAMS_20 IAMS_20	23 51 34.5
H18K	comp=Z,49um,20.0s Honhosa River	96.87 8	P	23 08 28.8 0.0

H18K	baz=196	S	S	23 19 53.6 +6.1
YUK8	Steele Glacier	96.89 18	P	23 08 29.8 +0.5
YUK8	baz=212,SNR=13	S	S	23 19 54.5 +6.1
G17K	baz=212 Kiwalik Mounta	96.94 7	P	23 08 29.6 +0.5
G17K	baz=194	S	S	23 19 50.1 +2.1
PETF	Floros	96.94 75	P	23 08 30.0 -0.2
YNM	Yellowstone No	96.95 41	Iamb	23 08 30.0 +0.8
YNM	YNM		Iamb	23 09 06.2
YNM	comp=Z,220nm,1.5s		IAMS_20 IAMS_20	23 57 08.3
YNR	comp=Z,43um,18.0s Norris Junctio	96.95 42	IAMS_20 IAMS_20	23 57 08.5
BPAW	comp=Z,43um,18.0s Bear Paw Mtn.	96.97 12	IAMS_20 IAMS_20	23 50 35.3
BPAW	comp=Z,52um,20.0s Bear Paw Mtn.	96.97 12	P	23 08 28.6 -0.7
BPAW	baz=203,SNR=22	S	S	23 19 51.3 +2.9
YUK6	baz=203 Outpost Mounta	96.97 18	P	23 08 30.1 +0.5
YUK6	baz=213	S	S	23 19 53.6 +4.5
MCK	McKinley	97.00 13	P	23 08 29.4 -0.1
MCK	baz=204,SNR=30	S	S	23 19 52.7 +3.9
PAX	comp=Z,61um,21.0s Paxson	97.01 14	IAMS_20 IAMS_20	23 47 55.6
PAX	comp=Z,61um,21.0s Paxson	97.01 14	P	23 08 29.7 0.0
PAX	baz=207,SNR=22	S	S	23 19 56.4 +7.5
HIA	baz=207 Hailar	97.04 324	P	23 08 28.4 -1.6
HIA	baz=207 Hailar	97.04 324	IAMS_20 IAMS_20	23 51 03.0
HIA	comp=Z,69um,22.0s Hailar	97.04 324	P	23 08 30.9 +0.8
HIA	comp=Z,69um,22.0s Hailar	97.04 324	/P	23 08 28.7 -1.3
I20K	comp=Z,54nm,1.6s Naaghdeneel	97.06 10	IAMS_20 IAMS_20	23 48 11.6
I20K	comp=Z,54nm,1.6s Naaghdeneel	97.06 10	P	23 08 30.3 +0.7
I20K	baz=200,SNR=6.3	S	S	23 19 56.9 +7.8
M26K	baz=200 Nabesna, AK	97.06 16	IAMS_20 IAMS_20	23 44 25.0
M26K	comp=Z,57um,22.0s Nabesna, AK	97.06 16	P	23 08 30.3 +0.4
M26K	baz=209,SNR=36	S	S	23 19 56.0 +6.6
HYT	baz=209 Haines Junctio	97.11 19	IAMS_20 IAMS_20	23 08 29.8 -0.4
HYT	comp=Z,53um,19.0s Haines Junctio	97.11 19	P	23 08 57.6
HYT	baz=214,SNR=13	P	Pdf	23 08 30.7 +0.5
YUK3	baz=214 Moose Creek	97.13 17	P	23 08 30.3 +0.5
YUK3	baz=211,SNR=24	S	S	23 19 58.7 +8.4
Q32M	baz=211 Nakina River	97.17 22	IAMS_20 IAMS_20	23 44 35.4
Q32M	comp=Z,62um,20.0s Nakina River	97.17 22	P	23 08 31.5 +0.9
Q32M	baz=218,SNR=12	S	S	23 19 59.3 +8.5
P32M	baz=218 Atlin	97.21 21	IAMS_20 IAMS_20	23 45 13.3
P32M	comp=Z,53um,21.0s Atlin	97.21 21	P	23 08 31.5 +0.9
P32M	baz=217	S	S	23 20 01.4 +1.1
CRIN	San Cristobal	97.22 80	P	23 08 33.9 +2.1
CRIN	comp=Z,279nm,1.4s		Iamb	23 08 58.2
YUKA	baz=213 Talbot Arm	97.23 18	P	23 08 31.9 +1.0
YMP	comp=Z,346nm,1.1s Mirror Lake Pi	97.27 42	IAMS_20 IAMS_20	23 52 08.9
M27K	comp=Z,59um,19.0s Edge Creek, AK	97.28 16	IAMS_20 IAMS_20	23 47 37.0
M27K	comp=Z,59um,19.0s Edge Creek, AK	97.28 16	P	23 08 31.6 +0.6
M27K	baz=210,SNR=44	S	S	23 19 59.5 +8.0
BTO	baz=210 Baotou	97.32 313	eP	23 08 31.6 0.0
BTO	BTO		pP	23 08 36.5 +4.8
BTO	BTO		pP	23 12 33.3 +4.2
BTO	BTO		SKS	23 19 07.8 +1.8
BTO	BTO		SS	23 19 53.0 -0.3
BTO	BTO		pmax	23 20 03.4 -3.9
BTO	comp=Z,21um,10.1s		LR	LR
BTO	comp=Z,112um,24.1s		LR	LR
BTO	comp=Z,127um,23.5s		LR	LR
BTO	comp=Z,279um,24.7s		LR	LR
HERN	Volcan Telica	97.36 80	P	23 08 32.9 +0.6
HERN	HERN		Iamb	23 11 51.1
MENT	comp=Z,346nm,1.1s Mentasta	97.36 15	IAMS_20 IAMS_20	23 47 43.0
MENT	comp=Z,59um,20.0s Mentasta	97.36 15	P	23 08 32.8 +1.6
CNGN	Cerro Negro	97.42 80	P	23 08 32.3 -0.2
O30N	Mendenhall	97.46 19	IAMS_20 IAMS_20	23 46 03.0
O30N	comp=Z,59um,20.0s Mendenhall	97.46 19	P	23 08 32.6 +0.9
O30N	baz=215,SNR=7.5	S	S	23 20 03.9 +1.1
H19K	baz=215 Roundabout Mou	97.47 9	IAMS_20 IAMS_20	23 54 37.5
H19K	comp=Z,48um,20.0s Roundabout Mou	97.47 9	P	23 08 32.1 +0.6
H19K	baz=198,SNR=41	S	S	23 20 00.0 +7.5
DLBC	baz=198 Dease Lake	97.50 23	P	23 08 33.3 +1.4
DLBC	baz=220,SNR=20	S	S	23 20 03.3 +1.0
L26K	comp=Z,220 Log Cabin Wild	97.52 15	IAMS_20 IAMS_20	23 47 48.2
L26K	comp=Z,67um,21.0s Log Cabin Wild	97.52 15	P	23 08 32.6 +0.7
L26K	baz=209,SNR=31	S	S	23 20 00.6 +7.3
G18K	baz=209 Tagagawik	97.55 8	IAMS_20 IAMS_20	23 54 45.4
G18K	comp=Z,47um,21.0s Tagagawik	97.55 8	P	23 08 31.6 -0.2
G18K	baz=196,SNR=25	S	S	23 19 57.9 +4.6
BVCY	baz=196 Beaver Creek	97.58 16	P	23 08 32.6 +0.4
BVCY	baz=211,SNR=24	S	S	23 19 58.9 +5.1
H20K	baz=211 Anotleneega Mo	97.65 10	P	23 08 32.5 +0.1
H20K	baz=198,SNR=34	S	S	23 20 08.8 +6.6
K24K	baz=199 Donnelly Dome	97.68 14	IAMS_20 IAMS_20	23 48 26.4
K24K	comp=Z,59um,20.0s Donnelly Dome	97.68 14	P	23 08 32.8 +0.2
K24K	baz=207,SNR=19	S	S	23 19 59.5 +4.8
TGUH	baz=207 Tegucigalpa,Un	97.70 78	P	23 08 36.0 +2.1
TGUH	comp=Z,73um,22.0s		IAMS_20 IAMS_20	23 41 39.2
WHY	Whitehorse	97.72 20	P	23 08 33.4 +0.4
WHY	baz=216,SNR=10	S	S	23 20 02.5 +7.3
N30M	baz=216 Aishikik Lake	97.75 19	IAMS_20 IAMS_20	23 49 10.5
N30M	comp=Z,50um,19.0s Aishikik Lake	97.75 19	P	23 08 33.2 +0.2

N30M	baz=216	S	S	23 20 03.3 +8.0
NEA2	baz=214 Nenana	97.76 12	P	23 08 31.8 -1.0
NEA2	baz=204,SNR=21	S	S	23 19 57.3 +2.2
JTS	baz=204 Las Juntas de	97.81 83	P	23 08 36.0 +1.7
JTS	comp=Z,37um,21.5s, baz=232,slow=29	97.81 83	LR	23 42 05.0
JTS	Las Juntas de	97.81 83	pmax	23 08 36.0 +1.7
JTS	comp=Z,156nm,1.5s		MLR	MLR
JTS	comp=Z,40um,22.0s		MLR	MLR
RIDG	Independent RI	97.82 14	P	23 08 33.0 -0.2
RIDG	baz=208,SNR=32	S	S	23 20 01.9 +6.1
WRH	baz=208 Wood River Hil	97.83 13	IAMS_20 IAMS_20	23 48 12.2
MLY	comp=Z,59um,21.0s Manley	97.87 11	IAMS_20 IAMS_20	23 51 40.1
MLY	comp=Z,49um,19.0s Manley	97.87 11	P	23 08 32.6 -0.8
MLY	baz=203,SNR=43	S	S	23 20 00.4 +4.2
PIAT	baz=203 Ana Tenorio	97.88 96	P	





C36M	Paulutak	107.27	17	P	PKIKP	23 13 23.0	-0.7
T45A	Paducah	107.34	57	IAMS_20	IAMS_20	23 59 30.0	
WVT	Waverly	107.55	58	IAMS_20	IAMS_20	00 00 26.7	
P43A	Skaggs, Pawnee	107.85	54	IAMS_20	IAMS_20	00 00 27.2	
Q44A	Meyer Farm, Va	107.89	55	IAMS_20	IAMS_20	23 56 28.3	
MTD4	Mount Denham	107.90	79	IAMS_20	IAMS_20	23 47 30.0	
V48A	Smith Bowers	108.12	59	IAMS_20	IAMS_20	23 59 51.0	
MOY	Mondy	108.34	320	eP	Pdf	23 09 18.8	-1.6
ULM	Lac du Bonnet	108.38	42	Pdf	Pdf	23 09 22.5	+2.1
ULM	comp=Z,4.6nm,1.0s,baz=256,slow=4.5,SNR=4.2			PKIKP	PKIKP	23 13 25.4	-0.9
ULM	comp=Z,2.0nm,1.0s,baz=253,slow=4.4,SNR=9.4			PKIKPbc	PKIKPbc	23 24 37.1	-0.7
ULM	comp=Z,8.4nm,0.6s,baz=85,slow=5.6,SNR=4.6			P	Pdf	23 33 04.0	+3.5
T47A	Sharon Grove	108.44	58	IAMS_20	IAMS_20	23 56 02.3	
USIN	University of	108.45	56	IAMS_20	IAMS_20	00 00 03.4	
OLIL	Olney	108.46	56	IAMS_20	IAMS_20	23 54 50.6	
SWET	Seawane	108.56	60	IAMS_20	IAMS_20	23 52 59.6	
L42A	Oliver, Polo	108.75	52	IAMS_20	IAMS_20	00 00 55.7	
A36M	Sachs Harbour	108.81	15	IAMS_20	IAMS_20	23 56 18.5	
A36M	Sachs Harbour	108.81	15	P	PKIKP	23 13 25.6	-0.9
W50A	Signal Mountai	109.01	60	IAMS_20	IAMS_20	00 00 34.7	
EPL0	Experimental L	109.39	43	IAMS_20	IAMS_20	23 58 18.6	
E38A	The Farm, Brul	109.43	47	IAMS_20	IAMS_20	00 01 22.2	
P46A	Rosedale	109.45	55	IAMS_20	IAMS_20	23 59 32.0	
WCI	Wyandotte Cave	109.54	57	IAMS_20	IAMS_20	23 56 45.4	
CHIV	Chivirico	109.63	78	IAMS_20	IAMS_20	23 52 01.6	
CPCT	Cooper Cave	109.70	60	IAMS_20	IAMS_20	23 54 04.0	
G40A	Rib Lake	109.74	49	IAMS_20	IAMS_20	23 55 48.7	
BLO	Bloomington	109.76	56	IAMS_20	IAMS_20	23 57 11.1	
SFIN	Lafayette	109.85	54	IAMS_20	IAMS_20	00 00 26.1	
K43A	Burlington	109.94	52	IAMS_20	IAMS_20	00 01 42.2	
L44A	Lake County Fo	110.01	52	IAMS_20	IAMS_20	00 02 00.0	
EYMN	Ely	110.01	46	IAMS_20	IAMS_20	23 54 50.5	
HYB	Hyderabad	110.02	279	eP	Pdf	23 09 36.6	-3.1
HYB	comp=E,458nm,13.0s			IVMs_BB	IVMs_BB	23 09 43.2	
HYB	comp=E,24um,30.7s			IVMs_BB	IVMs_BB	23 30 34.7	
HYB	comp=E,123um,31.2s			IVMs_BB	IVMs_BB	23 30 41.0	
R49A	Shelbyville	110.38	57	IAMS_20	IAMS_20	23 57 21.5	
P48A	Milroy	110.66	56	IAMS_20	IAMS_20	23 57 55.8	
COWI	Cowever	110.76	48	IAMS_20	IAMS_20	23 58 17.5	
TZTN	Tazewell	110.87	59	IAMS_20	IAMS_20	00 01 27.7	
R50A	Paris	110.98	57	IAMS_20	IAMS_20	00 01 51.5	
N47A	Urbana	111.03	54	IAMS_20	IAMS_20	00 00 38.3	
L46A	Eue Claire	111.05	53	IAMS_20	IAMS_20	00 08 39.8	
V53A	Saluda	111.07	60	IAMS_20	IAMS_20	23 58 32.2	
NMDO	Nuevo Mundo	111.09	78	IAMS_20	IAMS_20	23 50 38.4	
O48B	Farmland	111.16	55	IAMS_20	IAMS_20	00 00 43.0	
TRIS	Tristan da Cun	111.16	168	IAMS_20	IAMS_20	23 58 39.4	
F42A	Maple Grove Fa	111.27	49	IAMS_20	IAMS_20	23 59 17.7	
TBO	Thunder Bay	111.57	45	IAMS_20	IAMS_20	00 03 02.7	
O49A	Covington	111.72	55	IAMS_20	IAMS_20	23 58 42.7	
I45A	Fountain	111.86	51	IAMS_20	IAMS_20	00 02 53.1	
Q51A	Peebles	111.98	57	IAMS_20	IAMS_20	00 02 04.9	
N49A	Columbus Grove	112.10	55	IAMS_20	IAMS_20	00 02 59.8	
U44A	Nelsons Fund	112.14	60	IAMS_20	IAMS_20	00 02 19.5	
VOI	Vohitsoka	112.19	225	P	PKIKP	23 13 35.1	+0.4
VOI	Vohitsoka	112.19	225	P	Pdf	23 09 37.0	+1.4
V55A	Taylorville	112.34	61	IAMS_20	IAMS_20	23 59 12.8	
P51A	Williamsport	112.36	56	IAMS_20	IAMS_20	23 58 23.8	
ACSO	Alum Creek Sta	112.69	56	IAMS_20	IAMS_20	23 55 48.6	
Q52A	Bidwell	112.73	57	IAMS_20	IAMS_20	00 02 46.9	
AKL	Akoka	112.77	281	eP	PKIKP	23 13 46.0	+1.0
FCC	Fort Churchill	112.81	34	IAMS_20	IAMS_20	23 53 20.0	
AAM	Ann Arbor	112.98	53	IAMS_20	IAMS_20	00 06 09.8	
M50A	Fremont	113.08	55	IAMS_20	IAMS_20	00 01 34.7	
P52A	Corning	113.08	57	IAMS_20	IAMS_20	23 59 03.9	
U56A	King	113.15	60	IAMS_20	IAMS_20	00 03 12.2	
GLMI	Grayingl	113.23	51	IAMS_20	IAMS_20	00 06 27.2	
BDFB	Brasilia	113.35	127	Pdf	Pdf	23 09 50.2	+6.6
BDFB	comp=Z,1.6nm,0.7s,baz=172,slow=11,SNR=3.2			PKIKP	PKIKP	23 13 37.8	+0.8
BDFB	comp=Z,1.8nm,0.9s,baz=208,slow=3.6,SNR=12.1			PKIKPbc	PKIKPbc	23 24 21.4	+0.5
BLFA	Blacksburg	113.44	60	IAMS_20	IAMS_20	00 06 20.0	
WMQ	Urumqi	113.46	308	ePKP	PKIKP	23 13 36.0	-0.2
WMQ	comp=Z,8um,8.1s			SS	SS	23 14 27.3	-1.1
WMQ	comp=Z,34um,18.5s			AMB	AMB	23 30 12.8	+0.2
WMQ	comp=Z,30um,18.1s			LR	LR		
WMQ	comp=Z,37um,22.5s			LR	LR		
O52A	Adamsville	113.47	56	IAMS_20	IAMS_20	00 02 50.5	
JHNI	Jhansi	113.49	287	eP	PKIKP	23 13 47.1	+1.0
NRDN	NARMADA NAGAR	113.50	283	eP	PKIKP	23 13 47.5	+1.1
BHPL	Bhopal	113.50	284	eP	PKIKP	23 13 47.3	+1.0
P53A	Whipple	113.56	57	IAMS_20	IAMS_20	23 59 11.7	
KAD	Karad	113.69	277	eP	PKIKP	23 13 47.4	+1.0
PTH	Pithoragarh	113.76	291	eP	PKIKP	23 13 47.9	+1.1
Q54A	Coxs Mills	113.78	58	IAMS_20	IAMS_20	00 03 20.6	
K50A	Casco	113.86	53	IAMS_20	IAMS_20	00 06 07.2	
V58A	Windy Hill, Pi	113.90	61	IAMS_20	IAMS_20	00 03 43.1	

O53A	New Philadelph	113.96	56	IAMS_20	IAMS_20	00 11 25.2	
E46A	Sault Ste Mari	113.97	49	IAMS_20	IAMS_20	23 58 38.7	
T57A	Hurt	114.23	60	IAMS_20	IAMS_20	00 03 43.8	
M52A	Chesterland	114.31	55	IAMS_20	IAMS_20	00 02 39.3	
N53A	Lisboa	114.42	56	IAMS_20	IAMS_20	00 07 34.4	
KRAR	Krasnoyarsk	114.46	322	eP	PKIKP	23 13 37.9	+0.3
O54A	Avella	114.53	57	IAMS_20	IAMS_20	23 56 55.5	
JOSI	Joshimath	114.67	292	eP	PKIKP	23 13 49.4	+1.0
SUR	Sutherland	114.67	197	P	PKPdf	23 13 40.3	+1.0
SUR	Sutherland	114.67	197	P	Pdf	23 09 48.0	-1.4
Q56A	Snyder Ridge	115.00	58	IAMS_20	IAMS_20	00 00 15.0	
ALLY	Alegheny Cole	115.20	55	IAMS_20	IAMS_20	23 57 45.0	
T59A	Double "B" Far	115.49	61	IAMS_20	IAMS_20	23 13 39.6	-0.6
KUDL	comp=Z,34um,18.0s			PKIKP	PKIKP	00 06 04.3	
POGA	Pongola	115.58	209	IAMS_20	IAMS_20	23 13 40.2	-0.6
R58B	Mingal	115.59	60	IAMS_20	IAMS_20	00 05 12.1	
V61A	Roper	115.82	62	IAMS_20	IAMS_20	00 04 56.2	
AYAN	Aya Nagar	115.84	289	eP	PKIKP	23 13 51.7	+1.1
NDI	New Delhi	115.84	289	eP	PKIKP	23 13 51.7	+1.1
NPLP	NPLP New Delhi	115.86	289	eP	PKIKP	23 13 51.8	+1.1
P57A	Homestead Farm	116.01	58	IAMS_20	IAMS_20	00 00 48.7	
CBN	Corbin Frederi	116.05	60	IAMS_20	IAMS_20	00 03 37.9	
KLP	Kalpa	116.08	293	eP	PKIKP	23 13 52.2	+1.0
KUDL	Kandal	116.23	288	eP	PKIKP	23 13 52.5	+1.1
SBV	Sambava	116.28	234	P	PKIKP	23 13 45.8	+1.1
SBV	Sambava	116.28	234	P	Pdf	23 09 55.8	-0.7
SSPA	Standing Stone	116.48	57	IAMS_20	IAMS_20	23 13 41.2	-0.8
SSPA	Standing Stone	116.48	57	IAMS_20	IAMS_20	00 01 19.9	
ZSN	Zaisan	116.52	311	ePKIP	PKPdf	23 13 40.9	-1.0
ZSN	Zaisan	116.52	311	ePKIP	PKPdf	23 13 40.9	-1.0
WMLV	West Valley, N	116.53	55	IAMS_20	IAMS_20	23 13 41.8	-0.3
SNA	Sima	116.79	292	eP	PKIKP	23 13 53.9	+1.1
AGU	Aguadilla, PR	116.87	84	PKPdf	PKPdf	23 13 43.2	-0.1
MEDO	Medina	116.88	54	IAMS_20	IAMS_20	00 03 17.1	
BOSA	Boshof	116.88	203	Pdf	Pdf	23 10 03.9	+1.8
BOSA	comp=Z,5.7nm,0.7s,baz=164,slow=3.9,SNR=9.9			PKIKP	PKIKP	23 13 40.9	+0.4
BOSA	comp=Z,8.4nm,0.9s,baz=162,slow=2.2,SNR=4.9			PKIKPbc	PKIKPbc	23 24 09.1	0.0
BOSA	comp=Z,14nm,0.7s,baz=345,slow=3.3,SNR=1.4			P	Pdf	23 32 47.4	-3.2
BUKO	Buck Lake	116.92	51	IAMS_20	IAMS_20	23 13 42.0	-0.8
AOPR	Arecibo Observ	117.12	84	IAMS_20	IAMS_20	00 02 40.5	
AOPR	comp=Z,35um,18.0s			PKIKP	PKIKP	00 04 26.0	
L56A	Greenwood	117.19	55	IAMS_20	IAMS_20	00 04 02.5	
M57A	Sunshine Farm	117.25	56	IAMS_20	IAMS_20	23 58 40.2	
MVL	Millersville	117.38	58	IAMS_20	IAMS_20	00 01 40.2	
MA2	Monte Alegre	117.46	111	IAMS_20	IAMS_20	23 13 45.0	+0.2
BHK	Bhakra	117.49	292	eP	PKIKP	23 13 53.8	+9.5
SJG	San Juan	117.54	84	IAMS_20	IAMS_20	23 13 43.6	-1.1
SJG	San Juan	117.54	84	IAMS_20	IAMS_20	23 53 21.6	
SJG	San Juan	117.54	84	PKIKP	PKPdf	23 13 43.6	-1.1
R61A	Willards	117.60	60	IAMS_20	IAMS_20	00 05 27.1	
RES	Resolute Bay	117.64	17	IAMS_20	IAMS_20	23 57 36.1	
SDBA	SAO DESIDERIO	117.76	126	eP	PKPdf	23 13 45.3	-0.1
DELO	Deloro Mine	117.86	53	IAMS_20	IAMS_20	00 09 07.9	
DHLM	DHARAMSHALA	117.88	293	eP	PKIKP	23 13 55.6	+1.0
MSEY	Mahe Island	117.96	245	P	PKPdf	23 13 45.4	-0.4
MSEY	Mahe Island	117.96	245	P	PKPdf	23 13 46.8	+1.0
MSEY	Mahe Island	117.96	245	P	Pdf	23 10 02.9	-1.1
MSEY	Mahe Island	117.96	245	P	PKPdf	23 13 45.4	-0.4
MSEY	comp=Z,142um,20.0s			MLR	MLR		
MSEY	Mahe Island	117.96	245	P	PKPdf	23 13 44.5	-1.3
MK31	Makanchi Array	118.02	310	IAMS_20	IAMS_20	23 13 43.2	-1.6
MKAR	Makanchi Array	118.02	310	IAMS_20	IAMS_20	23 10 05.4	+1.9
MKAR	comp=Z,9.7nm,0.8s,baz=96,slow=5.5,SNR=12.2			PKP	PKPdf	23 13 43.6	-1.2
MKAR	comp=Z,80nm,0.9s,baz=155,slow=0.3,SNR=9.3			PKIKPbc	PKKPbc	23 24 05.6	-0.4
MKAR	comp=Z,10nm,0.8s,baz=276,slow=3.2,SNR=11.2			SKKPbc	SKKPbc	23 27 51.2	+0.5
GU01	Guaratinga, BA	118.08	134	eP	PKIKP	23 13 46.9	+1.0
K57A	Scipio Center	118.10	55	IAMS_20	IAMS_20	00 01 03.7	
MAK2	Makanchi	118.23	310	IAMS_20	IAMS_20	23 13 43.5	-1.7
MAK2	Makanchi	118.23	310	PKIKP	PKPdf	23 13 44.3	-0.9
LUPA	Lehigh Univers	118.29	58	IAMS_20	IAMS_20	00 01 59.8	
BINY	Birmingham	118.32	56	IAMS_20	IAMS_20	23 59 32.5	
ZAAO	Zalesovo Array	118.32	318	IAMS_20	IAMS_20	23 13 43.2	-1.9
ZALV	Zalesovo Beam	118.32	318	IAMS_20	IAMS_20	23 13 43.0	-2.1
ZALV	Zalesovo Beam	118.32	318	IAMS_20			

Table with columns for station name, frequency, power, and various signal quality metrics (PKP, P, S, etc.). The table lists numerous stations across different regions, including UOSS, DZA, PHDHD, and many others, with their respective technical specifications and performance indicators.



Table with columns for location, date, time, and various codes. Includes entries like IGLA Glengowla, Co, BSEB Bad Segeberg, BOSR Bodos, etc.

Table with columns for location, date, time, and various codes. Includes entries like UPC comp-Z,90um,22.0s, UPC Upipe, BORR Bors, etc.

Table with columns for location, date, time, and various codes. Includes entries like PRU Pruhonice, MPEP Malo Peshtene, VALD Valchedram, etc.

TNS	Taurus Mts	160.01348	ePKPdf	PKPdf	23 14 56.0	-1.2	comp=Z,3um,3.0s	WATA		ePP	PP	23 19 28.5	-0.4	PSBE		ePP	PP	23 20 02.3	+3.0				
TNS	TNS		ePKPab	PKPab	23 15 40.1	+3.2	comp=Z,14um,10.4s	LJU		ePP	PKPdf	PP	23 14 58.3	-1.0	MTE	Manteigas	167.70	36	ePKPdf	PKPdf	23 15 05.0	+0.4	
BSTI	Sart Tilman	160.06353	ePKPdf	PKPdf	23 14 56.5	-0.6		Ljubljana	161.92331	ePP	PKPdf	PP	23 14 58.8	-0.7	MTE		eSS	SS	23 20 01.9	+2.5			
PAIG	Paliouris	160.14303	P	PKPdf	23 14 55.2	-2.4		EDF	Efpalio	161.94300	P	PKPdf	PP	23 14 57.5	-1.9	MTE		ePP	PP	23 20 02.2	+1.5		
PLG	Polygyros	160.14305	P	PKPdf	23 14 55.3	-2.3		PDG	Podgorica	161.96315	iPP	PKPdf	PP	23 14 57.7	-1.7	MTE		iAMS_20	SS	00 10 15.0	+0.8		
KARY	Karyotas	160.15209	P	PKPdf	23 14 55.2	-2.5		PDG	Podgorica	161.96315	iPP	PKPdf	PP	23 14 58.2	-1.3	PMF	Mafrá	167.70	46	ePKPdf	PKPdf	23 15 05.5	+0.8
KNT	Kendrikon	160.21307	P	PKPdf	23 14 55.2	-2.4		PDG	Podgorica	161.96315	iPP	PKPdf	PP	23 14 58.1	-1.3	LIS	Lisbon	167.93	46	ePP	PKPdf	23 20 02.9	+2.5
KYMI	Kymi, Euboea I	160.24299	P	PKPdf	23 14 55.4	-2.3		PDG	Podgorica	161.96315	iPP	PKPdf	PP	23 14 58.1	-1.4	LIS		eSS	SS	00 24 50.2	+3.1		
AOS	Alonissos	160.24301	P	PKPdf	23 14 55.4	-2.3		WTTA	comp=Z,4um,3.0s,SNR=80		iPKP	PKPab	PP	23 15 46.2	+0.6	LIS		iAMS_20	IAMS_20	00 25 14.7	+0.8		
BCLA	Clavier	160.25354	ePKPdf	PKPdf	23 14 56.3	-1.1		WTTA	comp=Z,4um,3.5s		ePP	PP	23 19 28.3	-0.8	LIS	Lisbon	167.93	46	ePKPdf	PKPdf	23 15 05.1	+0.4	
BCLA	Clavier	160.25354	ePKPdf	PKPdf	23 14 56.3	-1.1		WTTA	comp=Z,4um,3.5s		ePP	PP	23 19 28.3	-0.8	LIS	Lisbon	167.93	46	ePKPdf	PKPdf	23 15 05.1	+0.4	
IDA	Anoia	160.29289	P	PKPdf	23 14 57.2	-0.8		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
IDA	Anoia	160.29289	P	PKPdf	23 14 57.2	-0.8		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
HORT	Horiatias	160.30306	P	PKPdf	23 14 57.2	-0.8		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
BGES	Gesves	160.31354	ePKPdf	PKPdf	23 14 56.8	-1.1		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
BGES	Gesves	160.31354	ePKPdf	PKPdf	23 14 56.8	-1.1		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
WVY	Valandovo	160.37308	P	PKPdf	23 14 57.2	-0.8		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
BMRD	Mareduos	160.41355	ePKPdf	PKPdf	23 14 56.8	-1.1		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
BMRD	Mareduos	160.41355	ePKPdf	PKPdf	23 14 56.8	-1.1		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
MHLO	Agia Marina, M	160.57293	P	PKPdf	23 14 56.0	-1.0		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
TEKS	Tekens	160.60320	iPKP	PKPdf	23 14 56.3	-1.2		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP	23 14 58.0	-1.4	PSARD	Sardoal	167.94	41	ePKPdf	PKPdf	23 15 05.0	+0.3
ARSA	Arzberg	160.55331	iPKP	PKPdf	23 14 56.2	-1.7		RETA	Reutte	162.03340	iPKP	PKPab	PP										

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, s, ISC. Includes stations like RAHZ Aarahi, WHZH Waihua, NMHZ Naumai, etc.

MOS 15 23:07:24.4 1.3, 201:65S-178:18W, h40km, mb5.6/9, Error ellipse: s-maj=14.0km s-min=11.7km az=87.7

NEIC 15 23:07:25.2 1.4, 301:62S-108:17W, h0.1, h39km, 5km, mb5.3/43, Error ellipse: s-maj=18.1km s-min=11.1km az=88.0

IDC 15 23:07:25.7 1.7, 301:56S-178:07W, h50km, 14km, mb4.6/9, mbmp4.9/9, Error ellipse: s-maj=24.4km s-min=13.6km az=91.0

ISC 15 23:07:25.3 0.3, 301:79S-204:178W, h40km, h46km, n193, s189/215, mb5.2/39, az=10D, Kermadec Islands

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, s, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, RIZ Raoul Island, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, s, ISC. Includes stations like MTSU Mount Surprise, BBOO Buckleboe, COEN Coen, etc.

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res, ISC, h, s, ISC. Includes stations like WMQ Urumqi, ZSN Zaisan, MKAR Makenchi Array, etc.

IDC 15 23:11:12.3 6.5, 314:51S-177:77W, h0km, mb3.9/2, mbtmp3.9/2, Error ellipse: s-maj=275.7km s-min=62.4km az=157.0, Kermadec Islands region



**mbtmp4.2/2, Error ellipse: s-maj=285.3km s-min=55.0km az=156.0, Kermadec Islands**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
ASAR	Alice Springs	42.66	268	P	23 19 46.2	-0.1
2.0nm, 0.5s, baz=106, slow=1.1, SNR=6.6						
WRA	Warramunga Arr	43.69	273	P	23 19 54.3	-0.3
1.7nm, 0.4s, baz=111, slow=0.8, SNR=7.4						
FINES	FINES Array B	145.39	339	PKPbc	23 31 26.0	-0.8
1.6nm, 0.4s, baz=48, slow=4.1, SNR=12						

**NEIC 15 23:13:39.1±0.8, 30°56S:0°10:178.2W:0.2, h41km, 10km, mb4.0/5, Error ellipse: s-maj=29.8km s-min=13.6km az=96.0**

**ISC 15 23:13:40.1±3.9, 30°54S:178°12W, h56km, 29km, mb4.1/4, mbtmp4.4/4, Error ellipse: s-maj=45.9km s-min=20.6km az=133.0**

**ISC 15 23:13:38.5±0.9, 30°66S:0°08:178.2W:0.2, h46km, n26, c1545/29, mb4.1/6, Kermadec Islands**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Raoul Island	1.43	11	Pn	23 14 01.2	-0.8
RAO	Raoul Island	1.43	11	Pn	23 14 18.1	-1.5
RAO	Raoul Island	1.43	11	Pn	23 14 01.4	-0.6
RAO	Raoul Island	1.43	11	Pn	23 14 18.2	-1.4
URZ	Urewera	8.27	209	Pn	23 15 35.8	-3.1
URZ	Urewera	8.27	209	Pn	23 17 10.5	-2.9
DZM	Mont Dzumac	16.17	298	P	23 17 25.0	0.0
STKA	Stephens Creek	34.22	257	P	23 20 21.4	+1.6
STKA	Stephens Creek	34.22	257	P	23 20 22.5	+2.6
BBOO	Bucklebo	38.70	255	P	23 20 58.6	+0.6
COEN	Coen	39.15	286	P	23 21 01.7	-0.2
AS31	Alice Springs	42.89	267	P	23 21 33.0	+0.3
ASAR	Alice Springs	42.89	267	P	23 21 33.5	+0.7
WR8	Warramunga Arr	43.76	273	P	23 21 40.1	+0.4
WRA	Warramunga Arr	43.76	273	P	23 21 41.8	+0.9
WB0	Warramunga Arr	43.93	273	P	23 21 41.4	+0.4
FITZ	Fitzroy Crossi	52.16	270	P	23 22 45.4	+0.8
MAW	Mawson	71.99	201	P	23 24 58.2	+1.3
SNA4	Sanae	77.90	179	P	23 25 34.4	+3.4
KURBB	Kurchatov Arra	121.12	314	PKP	23 32 24.1	-1.6
FI41	FINES Array S	145.32	340	PKPbc	23 33 09.5	-0.8
FINES	FINES Array B	145.32	340	PKPbc	23 33 09.4	-0.9
FINES	FINES Array B	145.32	340	PKPbc	23 33 09.2	-1.1
NB2	NORSAR Subarrat	148.96	351	PKPbc	23 33 20.2	-0.5
NOA	NORSAR Array B	148.96	351	PKPbc	23 33 20.5	-0.2
HFS	Hagfors	149.46	348	PKPbc	23 33 21.4	-0.4
AKASG	Malin Array Be	151.38	322	PKPbc	23 33 27.4	+0.2
MMAI	Mount Meron Ar	151.40	284	PKPbc	23 33 28.4	+0.5
BRTR	Keakin Array B	152.45	298	PKPbc	23 33 30.4	+0.5

**ISC 15 23:16:10.6±7.0, 30°45S:178°19W, h59km, 49km, mb3.2/2, mbtmp3.5/2, Error ellipse: s-maj=98.4km s-min=42.7km az=133.0, Kermadec Islands**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Raoul Island	1.21	11	Pn	23 16 32.8	+1.4
RAO	Raoul Island	1.21	11	Pn	23 16 46.6	-0.4
ASAR	Alice Springs	42.94	267	P	23 24 03.9	-0.1
WRA	Warramunga Arr	43.94	272	P	23 24 12.1	0.0
FINES	FINES Array B	145.13	340	PKPbc	23 35 38.8	-1.6
CNMR	CNMR 15 23:19:28.3±28.4, 35°28N:4°65W, h108km					
SFS	SFS 15 23:19:28.1±35.6N:4°73W, h64km, ML3.4/8, ML2.5/14, MLV2.1/14					
MDD	MDD 15 23:19:29.5±0.4, 35°75N:4°75W, h40km, mb_Lg2.8/6, Error ellipse: s-maj=6.2km s-min=2.0km az=60.0					
INMG	INMG 15 23:19:29.8±1.1, 35°82N:4°73W, h75km, 5km, Error ellipse: s-maj=3.3km s-min=2.7km az=109.0					
ISC	ISC 15 23:19:28.0±1.2, 35°74N:0°03:476W:0.04, h59km, n47, c1845/9, Strait of Gibraltar					
CHEFC	Chefchaouen	0.79	217	P	23 19 46.0	+2.6
CHEFC	Chefchaouen	0.79	217	P	23 19 59.9	+5.2
EMIJ	Mijas	0.82	359	Pn	23 19 44.8	+1.0
EMIJ	Mijas	0.82	359	Pn	23 19 44.8	+1.0
EMIJ	Mijas	0.82	359	Pn	23 19 57.3	+1.9
EMIJ	Mijas	0.82	359	Pn	23 19 58.5	
PALE	Palemas	0.85	128	P	23 19 45.4	+1.3
PALE	Palemas	0.85	128	P	23 19 58.2	+2.3
EMAL	Mataga-Limoner	1.05	14	Pn	23 20 01.8	+1.2
AKLM	AKL	1.43	149	Pn	23 19 48.8	-3.0
AKLM	AKL	1.43	149	Pn	23 20 03.4	-6.3
LCRM	LKR	2.05	182	P	23 19 58.1	-2.2
LCRM	LKR	2.05	182	P	23 20 20.9	-4.0
IFR	Ifrane	2.24	188	Pn	23 20 06.2	-1.7
IFR	Ifrane	2.24	188	Pn	23 20 25.2	-4.3
ECAB	Ei Cabril	2.39	347	Pn	23 20 05.5	+0.6
ECAB	Ei Cabril	2.39	347	Pn	23 20 32.8	-0.2
ECAB	Ei Cabril	2.39	347	Pn	23 20 45.4	+0.5
ECAB	Ei Cabril	2.39	347	Pn	23 20 27.4	
EADA	Adamuz	2.43	3	Pn	23 20 06.3	+0.9
EADA	Adamuz	2.43	3	Pn	23 20 34.4	+0.5
EADA	Adamuz	2.43	3	Pn	23 20 06.5	+1.1
EADA	Adamuz	2.43	3	Pn	23 20 31.8	-2.1
EADA	Adamuz	2.43	3	Pn	23 21 22.0	
EQES	Quesada	2.46	33	Pn	23 20 07.3	+1.4
EQES	Quesada	2.46	33	Pn	23 20 33.9	-1.0
EMIN	Mina Concepcio	2.54	323	Pn	23 20 07.6	+0.7
EMIN	Mina Concepcio	2.54	323	Pn	23 20 35.6	-1.0
EMIN	Mina Concepcio	2.54	323	Pn	23 20 07.6	+0.7
EMIN	Mina Concepcio	2.54	323	Pn	23 20 35.6	-1.0
EMIN	Mina Concepcio	2.54	323	Pn	23 20 35.6	-1.0
ZHG	ZHG	2.77	215	P	23 20 08.9	-1.1
ZHG	ZHG	2.77	215	P	23 20 40.3	-2.0
EGRO	El Granado	2.83	310	Pn	23 20 11.5	+0.7
MD31	MD31	2.87	180	Pn	23 20 06.2	-1.7
MD31	MD31	2.87	180	Pn	23 20 36.7	-8.0
PVAQ	Vaqueiros	2.91	306	Pn	23 20 12.4	+0.6
PVAQ	Vaqueiros	2.91	306	Pn	23 20 12.5	+0.7
PVAQ	Vaqueiros	2.91	306	Pn	23 20 45.6	0.0
MDT	Midelt	2.92	178	P	23 20 37.4	+0.7
MDT	Midelt	2.92	178	P	23 20 38.5	-7.5
PBDV	Barranco-do-Ve	2.97	301	Pn	23 20 14.5	+0.8
PBDV	Barranco-do-Ve	2.97	301	Pn	23 20 47.5	+0.4
PBAR	Barrancos	3.04	324	Pn	23 20 14.5	+0.8
PBAR	Barrancos	3.04	324	Pn	23 20 48.0	-0.9

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
PBAR	Barrancos	3.04	324	Pn	23 20 14.7	+1.0
PBAR	Barrancos	3.04	324	Pn	23 20 48.5	-0.3
TLOR	Lorca, Murcia	3.12	51	Sn	23 20 47.7	-2.1
PSIM	Granatula de C	3.18	14	Pn	23 20 15.7	+2.1
PCVE	Castro Verde	3.25	307	Pn	23 20 50.2	-2.1
PCVE	Castro Verde	3.25	307	Pn	23 20 17.2	+0.8
MESJ	Mesajana	3.48	308	Pn	23 20 53.7	-0.1
EBAD	Badajoz	3.51	330	Pn	23 20 20.9	+0.8
EBAD	Badajoz	3.51	330	Pn	23 20 59.5	-0.8
EBAD	Badajoz	3.51	330	Pn	23 20 19.6	
EBAD	Badajoz	3.51	330	Pn	23 20 20.9	+0.8
EBAD	Badajoz	3.51	330	Pn	23 20 59.1	-1.3
EVO	Evora	3.81	318	Sn	23 21 06.9	-0.9
EVO	Evora	3.81	318	Sn	23 21 07.1	-0.7
PAB	San Pablo	3.81	5	Sn	23 21 05.0	+2.8
PESTR	Estremoz	3.85	325	Sn	23 21 07.3	-1.5
PESTR	Estremoz	3.85	325	Sn	23 21 08.1	-0.8
PMRV	Estremoz	4.24	331	Pn	23 20 31.1	+1.1
PMRV	Estremoz	4.24	331	Pn	23 21 16.4	-1.8
PMTG	Montargil	4.32	321	Pn	23 20 32.2	+1.0
PMTG	Montargil	4.32	321	Pn	23 21 19.5	-0.8
PARRA	Arraiolos	4.59	313	Pn	23 20 28.1	-6.9
PARRA	Arraiolos	4.59	313	Pn	23 21 12.0	-1.5
PSARD	Sardao	4.71	326	Pn	23 20 37.4	+0.9
PSARD	Sardao	4.71	326	Pn	23 21 27.7	-2.0

**ISC 15 23:21:49.1±1.6, 31°10S:178°42W, h0km, mb4.2/2, mbtmp4.2/3, ML3.3/1, Error ellipse: s-maj=54.9km s-min=26.4km az=132.0**

**ISC 15 23:21:54.6±1.8, 30°9S:02°178.5W:0.4, h35km, n10, c0566/10, Kermadec Islands**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Raoul Island	1.69	17	Pn	23 22 21.3	-0.4
RAO	Raoul Island	1.69	17	Pn	23 22 42.5	+0.5
URZ	Urewera	8.21	205	Pn	23 23 44.9	-6.3
URZ	Urewera	8.21	205	Pn	23 25 13.3	-1.0
ASAR	Alice Springs	42.67	268	P	23 29 48.3	+0.1
WRA	Warramunga Arr	43.70	273	P	23 29 56.5	-0.1
FINES	FINES Array B	145.44	339	PKPbc	23 41 26.9	-1.3
NB2	NORSAR Subarrat	149.15	351	PKP	23 41 40.5	+0.6
NOA	NORSAR Array B	149.15	351	PKPbc	23 41 39.9	0.0
HFS	Hagfors	149.62	348	PKPbc	23 41 41.0	+0.2
AKASG	Malin Array Be	151.42	322	PKPbc	23 41 45.1	+0.3
BRTR	Keakin Array B	152.45	298	PKPbc	23 41 48.1	+0.6

**ISC 15 23:22:44.5±6.4, 30°48S:177.92W, h0km, mb3.8/2, mbtmp3.8/2, Error ellipse: s-maj=254.4km s-min=61.6km az=155.0, Kermadec Islands**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Raoul Island	1.23	0	Sn	23 23 28.1	+1.9
ASAR	Alice Springs	43.17	267	P	23 30 47.1	-0.2
WRA	Warramunga Arr	44.17	272	P	23 30 55.3	0.0
FINES	FINES Array B	145.25	340	PKPbc	23 42 22.1	-1.0

**ISC 15 23:22:56.6±6.3, 31°08S:177.85W, h0km, mb3.7/2, mbtmp3.7/2, Error ellipse: s-maj=273.0km s-min=62.4km az=156.0, Kermadec Islands region**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
URZ	Urewera	8.27	209	Pn	23 26 55.9	-1.9
ASAR	Alice Springs	43.20	268	P	23 31 25.5	0.0
WRA	Warramunga Arr	44.25	273</			

















16d 3h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Topoph Spring, Turquoise Moun, Montezuma Peak, Benton, Bitter Crk WRG, Devils Postpil, Kettleman Hill, Tonopah, Sheep Range, Granite Mount, Little Huntoon, etc.

16d 01:51:00.9e.1.1, 30.56Sx177.97W, h0km, mb4.0/3, mbtmp4.0/3, Error ellipse: s-maj=41.84km s-min=36.9km az=168.0

ISC 16 01:51:07.6.1.2, 30.9S:0.1x178.3W:0.3, h35km, n12, r156/13, mb3.9/3, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Urewera, Alice Springs, Warramunga Arr, South Pole Qui, Borovoye Array, etc.

16d 01:58:36.1e.1.8, 30.27Sx178.06W, h0km, mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=345.6km

2019 JUN

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Alice Springs, Warramunga Arr, FINES FINESS Array B, etc.

16d 02:19.9.4.6, 30.04Sx178.31W, h0km, mb4.0/2, mbtmp4.0/2, Error ellipse: s-maj=247.5km s-min=68.4km az=166.0, Kermadec Islands

ISC 16 02:06:25.8e.1.3, 3.69S:152.2E:0.1, h271km, n7km, mb4.2/2, Error ellipse: s-maj=17.9km s-min=6.1km az=76.0

16d 02:06:26.0e.3.0, 3.66S:152.12E, h276km, n29km, mb3.5/9, mbtmp4.2/1, Error ellipse: s-maj=23.5km s-min=14.0km az=76.0

ISC 16 02:06:25.4e.0.6, 3.69S:0.07x152.19E:0.10, h271km, n38, r0571/38, mb4.2/18, New Ireland region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Rabaul, Manus Island, Port Moresby, Jayapura, etc.

16d 03:02:32.8e.0.4, 30.53Sx178.15W, h0km, mb5.2/22, mbtmp5.1/23, ML3.6/1, MS4.8/33, Error ellipse: s-maj=15.7km s-min=14.6km az=114.0

16d 03:02:32.7.0.3, 30.37S:177.56W, h8km, mb5.5/4, mb5.2/24, Ms5.1/6, Ms7.4/95

MOS 16 03:02:38.8e.1.0, 30.58Sx178.14W, h45km, mb5.6/35, Error ellipse: s-maj=9.3km s-min=7.5km az=81.8

NEIC 16 03:02:39.3e.1.4, 30.64S:0.06x178.04W:0.10, h35km, 1km, mb5.5/32, Ms 20.4.9/65, Error ellipse: s-maj=14.2km s-min=9.8km az=101.0

NOU 16 03:02:42.1.3, 31.01S:177.86W, h68km, mb5.4/78, Kermadec Islands Region

ISC 16 03:02:38.8e.0.3, 30.85S:0.03x178.02W:0.04, h41km, 2km, h41km, pp-P, n942, r1949/919, mb5.5/226, MS4.9/66, 52C-500, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Green Lake, Raoul Island, Waiomatatini S, Pakihiroa, Te Kaha, Puketiti, Kuaotunu, Raukumara Rang, etc.

16d 03:09.1e.1.9, 30.61Sx177.96W, h0km, mb3.8/5, mbtmp3.8/5, Error ellipse: s-maj=49.2km s-min=29.6km az=48.0

ISC 16 03:09:16.8.1.5, 31.0S:0.1x178.2W:0.2, h46km, n10, r1591/8, mb3.8/5, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Urewera, Stephens Creek, Alice Springs, Warramunga Arr, Vanda, etc.

16d 02:37:57.5e.2.9, 30.01Sx178.09W, h0km, mb3.7/3, mbtmp3.7/3, Error ellipse: s-maj=83.7km s-min=37.5km az=39.0, Kermadec Islands

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Alice Springs, Warramunga Arr, South Pole Qui, FINES FINESS Array B, etc.

LDG 16 02:49:00.4e.0.1, 48.25N:7.28E, h2km, Md1.5/1, M11.4/1, Error ellipse: s-maj=3.1km s-min=2.2km az=113.0

STR 16 02:49:00.4e.0.5, 48.25N:7.28E, h2km, ML v0.6/5, Error ellipse: s-maj=0.0km s-min=0.0km az=113.4, preliminary, France

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Echery, Champ du Feu, Welschbruch, etc.

16d 03:02:32.8e.0.4, 30.53Sx178.15W, h0km, mb5.2/22, mbtmp5.1/23, ML3.6/1, MS4.8/33, Error ellipse: s-maj=15.7km s-min=14.6km az=114.0

MOS 16 03:02:38.8e.1.0, 30.58Sx178.14W, h45km, mb5.6/35, Error ellipse: s-maj=9.3km s-min=7.5km az=81.8

NEIC 16 03:02:39.3e.1.4, 30.64S:0.06x178.04W:0.10, h35km, 1km, mb5.5/32, Ms 20.4.9/65, Error ellipse: s-maj=14.2km s-min=9.8km az=101.0

NOU 16 03:02:42.1.3, 31.01S:177.86W, h68km, mb5.4/78, Kermadec Islands Region

ISC 16 03:02:38.8e.0.3, 30.85S:0.03x178.02W:0.04, h41km, 2km, h41km, pp-P, n942, r1949/919, mb5.5/226, MS4.9/66, 52C-500, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Green Lake, Raoul Island, Waiomatatini S, Pakihiroa, Te Kaha, Puketiti, Kuaotunu, Raukumara Rang, etc.

16d 03:02:32.8e.0.4, 30.53Sx178.15W, h0km, mb5.2/22, mbtmp5.1/23, ML3.6/1, MS4.8/33, Error ellipse: s-maj=15.7km s-min=14.6km az=114.0

MOS 16 03:02:38.8e.1.0, 30.58Sx178.14W, h45km, mb5.6/35, Error ellipse: s-maj=9.3km s-min=7.5km az=81.8

NEIC 16 03:02:39.3e.1.4, 30.64S:0.06x178.04W:0.10, h35km, 1km, mb5.5/32, Ms 20.4.9/65, Error ellipse: s-maj=14.2km s-min=9.8km az=101.0

NOU 16 03:02:42.1.3, 31.01S:177.86W, h68km, mb5.4/78, Kermadec Islands Region

ISC 16 03:02:38.8e.0.3, 30.85S:0.03x178.02W:0.04, h41km, 2km, h41km, pp-P, n942, r1949/919, mb5.5/226, MS4.9/66, 52C-500, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Green Lake, Raoul Island, Waiomatatini S, Pakihiroa, Te Kaha, Puketiti, Kuaotunu, Raukumara Rang, etc.

16d 03:09.1e.1.9, 30.61Sx177.96W, h0km, mb3.8/5, mbtmp3.8/5, Error ellipse: s-maj=49.2km s-min=29.6km az=48.0

ISC 16 03:09:16.8.1.5, 31.0S:0.1x178.2W:0.2, h46km, n10, r1591/8, mb3.8/5, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like Urewera, Stephens Creek, Alice Springs, Warramunga Arr, Vanda, etc.

16d 02:37:57.5e.2.9, 30.01Sx178.09W, h0km, mb3.7/3, mbtmp3.7/3, Error ellipse: s-maj=83.7km s-min=37.5km az=39.0, Kermadec Islands

MOVZ	Moawhango	9.94 209	P	03 04 57.3 -1.9
MOVZ			S	03 06 47.1 -2.4
PKVZ	Pokaka	10.02 211	P	03 05 00.9 +0.7
PKVZ	Mangateitei	10.04 210	P	03 05 00.2 +0.4
PTXZ	Pawaniui	10.07 203	P	03 04 57.0 -3.8
PNHZ			S	03 05 48.7 -2.7
PNHZ	Pukenui	10.20 206	P	03 04 58.5 -4.2
PNHZ			S	03 06 52.9 -2.8
WPHZ	Waipukurua	10.24 205	P	03 05 00.6 -2.6
PRHZ	Porangahau	10.36 203	P	03 05 01.0 -3.7
FRHZ			S	03 05 57.2 -2.3
ANWZ	Angora Road	10.58 203	P	03 05 07.7 -2.3
PRWZ	Porl Road	10.85 205	P	03 05 08.7 -2.8
BFZ	Birch Farm	10.86 204	P	03 05 06.7 -4.9
BFZ			S	03 07 07.6 -4.2
TIWZ	Tintock	11.07 205	P	03 05 10.8 -3.8
MRZ	Mangatainoka R	11.08 206	P	03 05 09.7 -5.0
MRZ			S	03 05 48.7 -2.7
TMWZ	Te Maipa	11.36 204	P	03 05 14.2 -4.3
NFK	Norfolk Island	12.31 275	P	03 05 34.2 +2.7
QRZ	Quartz Range	12.56 215	P	03 05 36.9 +2.0
QRZ			S	03 07 52.8 -0.5
LKBA	Tubou, Lakemba	12.58 157	P	03 05 42.8 -3.1
CTZ	Chatham Island	12.91 175	P	03 05 40.1 +0.4
CTZ	Chatham Island	12.91 175	P	03 05 40.8 +1.1
CTZ	Chatham Island	12.91 175	P	03 05 37.6 -2.1
KHZ	Kahutara	13.07 203	P	03 05 41.1 +0.1
MSVZ	Nonsavu	13.53 344	P	03 05 46.9 -1.5
MSVZ			LR	03 10 09.3
MSVZ	comp-Z, 6um, 20.3s, baz=184, slow=35		LR	
MSVZ	Nonsavu	13.53 344	P	03 05 50.5 +2.1
TAVE	Taveuni	14.18 353	P	03 06 04.4 +0.7
DGTI	Dogotuki	14.62 351	P	03 06 06.2 -2.5
PINN	Pines Island,	15.34 299	P	03 06 16.7 0.0
RPZ	Rata Peaks	15.49 211	P	03 06 11.6 -2.7
RPZ			S	03 06 11.6 -2.7
RPZ	comp-Z, 2.9m, 0.3s, baz=259, slow=1.9, SNR=9.5		S	
RPZ	comp-Z, 1.3m, 0.3s, baz=44, slow=16, SNR=12		S	
RPZ	Rata Peaks	15.49 211	P	03 06 15.0 +0.6
OENUC	Ouen Island, N	15.91 298	P	03 06 24.3 +1.3
YATMC	Yamoukateau,	16.06 297	P	03 06 21.1 +1.6
ONTNC	Ouen Toro	16.27 298	P	03 06 27.5 +0.5
DZM	Mont Dzumac	16.41 298	P	03 06 28.9 +0.3
DZM	Mont Dzumac	16.41 298	eP	03 06 29.1 +0.4
DZM	comp-Z, 416nm, 1.5s		LR	
DZM	comp-Z, 1.3um, 25.4s		eLR	03 10 14.9
DZM	Mont Dzumac	16.41 298	P	03 06 29.3 +0.7
DZM	comp-Z, 0.4nm, 0.3s, baz=108, slow=14, SNR=30		LR	
DZM	comp-Z, 7um, 18.2s, baz=134, slow=34		LR	03 11 41.3
DZM	Mont Dzumac	16.41 298	P	03 06 30.3 +1.6
ODZ	Otahua Downs	16.73 209	P	03 06 31.9 0.0
JCZ	Jackson Bay	16.82 215	P	03 06 33.1 0.0
EAZ	Earscleugh	17.45 211	S	03 06 38.0 -1.1
EAZ			S	03 09 36.5 -1.6
AFI	Afiamalua	17.81 20	P	03 06 41.6 -2.1
AFI	Afiamalua	17.81 20	P	03 06 44.5 +0.4
AFI	Afiamalua	17.81 20	P	03 06 41.6 -2.1
AFI			pmx	
RAR	Rarotonga	18.98 64	P	03 06 55.5 -1.3
RAR	Rarotonga	18.98 64	P	03 06 56.9 +0.1
RAR	comp-Z, 1.7m, 0.3s, baz=234, slow=4.9, SNR=9.4		S	03 10 11.7 -1.8
RAR	comp-Z, 3.9m, 0.8s, baz=90, slow=19, SNR=3.6		LR	03 13 40.7
RAR	comp-Z, 1um, 19.6s, baz=258, slow=35		LR	
RAR	Rarotonga	18.98 64	P	03 06 58.5 +0.4
LHI	Lord Howe Isla	19.61 262	P	03 07 04.9 -0.5
LHI	Lord Howe Isla	19.61 262	P	03 07 08.2 +2.8
LHI	comp-Z, 1.24nm, 0.6s		P	
SANVU	Saravoutou	20.45 315	P	03 07 14.0 -1.2
GC1S	Gold Coast 1 S	20.48 209	P	03 07 14.7 -4.7
NTRLH	Newcastle Hard	20.75 257	P	03 08 09.9 +4.3
ARMA	Armidale	26.08 263	P	03 08 11.1 +2.3
ARMA			IAMS_20	03 16 03.4
ARMA	Armidale	26.08 263	P	03 08 12.4 +3.6
ARMA	Armidale	26.08 263	P	03 08 13.1 +4.3
MGCD	Mangrove Creek	26.23 257	P	03 08 13.1 +3.1
MGCD	comp-Z, 97nm, 0.7s		P	
MGCD	Mangrove Creek	26.23 257	P	03 08 13.9 +3.9
TBUAI	Tubuai	26.25 81	eS	03 12 41.9 -1.1
TBUAI	comp-Z, 1.2um, 28.2s		LR	03 14 48.8
TBI			eLR	03 14 51.2
TBI	comp-Z, 2.3um, 26.5s		LR	
SYDH	Sydney Hard Ro	26.51 255	P	03 08 15.6 +3.1
CNB	Canberra Magne	27.62 252	P	03 08 22.7 +0.2
CNB	Canberra Magne	27.62 252	P	03 08 25.7 +3.2
EIDS	Eidsvold	27.74 274	P	03 08 23.7 +0.1
EIDS			IAMS_20	03 17 14.9
EIDS	Eidsvold	27.74 274	P	03 08 24.8 +1.1
EIDS	Eidsvold	27.74 274	P	03 08 25.5 +1.9
MILA	Mila	27.83 248	P	03 08 26.9 +2.4
CAN	Canberra	27.91 252	P	03 08 27.9 +2.7
CAN	Canberra	27.91 252	P	03 08 27.7 +2.3
CAN	Canberra	27.91 252	P	03 08 28.2 +2.8
CAN	Canberra	27.91 252	P	03 08 27.9 +2.7
CAN			pmx	
CAN	comp-Z, 2.4nm, 0.7s		MLR	
GD1S	Gladstone Soft	28.18 277	P	03 08 30.8 +3.3
YNG	Young	28.43 254	P	03 08 32.4 +2.6
YNG	comp-Z, 0.9m, comp=		P	
PPT2	Papeete2	29.01 70	eS	03 13 08.1 -1.6
PPT2			eLQ	03 14 38.6
PPT2	comp-Z, 2um, 24.2s		LR	03 15 52.6
PPT2	comp-Z, 6um, 28.8s		eLR	03 16 01.3
PPT	comp-Z, 3um, 27.8s		LR	03 08 36.2 +1.1
PPT	Papeete	29.02 69	P	03 08 36.2 +1.1
PPT	comp-Z, 1.01nm, 1.1s, baz=261, slow=11, SNR=3.4		LR	03 20 08.0
GLAD	Gladstone	29.15 240	P	03 08 38.0 +2.0
CORO	Coronation Park	29.87 240	P	03 08 44.9 +2.5
MOO	Moorelands	30.02 238	P	03 08 44.4 +0.9
TAU	Tasmania Unive	30.02 237	P	03 08 45.2 +1.6
TAU	Tasmania Unive	30.02 237	P	03 08 45.2 +1.6
TAU			pmx	
TAU	comp-Z, 4.2nm, 0.9s		MLR	
TAU	Tasmania Unive	30.02 237	P	03 08 44.9 +1.2
TAU			pP	03 08 59.0 +0.3
TAU			SP	03 09 06.1 +8.4
TOO	Toolangi	30.77 247	P	03 08 52.4 +1.6
TOO	Toolangi	30.77 247	P	03 08 52.0 +1.6
TOO			P	03 08 52.4 +2.0
CMSA	Cobar Meteorol	30.96 259	P	03 08 54.1 +2.0
CMSA	Cobar Meteorol	30.96 259	P	03 08 54.0 +1.9
MLBS	Spotswood, Mel	31.25 247	P	03 08 57.0 +2.4
DEKX	Deakin Univer	31.74 246	P	03 09 02.4 +3.5
QLP	Quilpie	33.27 268	P	03 09 12.6 +0.1
QLP	Quilpie	33.27 268	P	03 09 13.4 +1.0
ARPS	Mount Arapiles	33.69 249	P	03 09 17.1 +1.1
ARPS	Mount Arapiles	33.69 249	P	03 09 17.5 +1.5
TV1H	Townsville Har	33.76 282	P	03 09 18.3 +1.6
CTAO	Charters Tower	33.85 280	P	03 09 18.9 +1.3
CTAO	Charters Tower	33.85 280	P	03 09 18.9 +1.3
CTAO			pmx	

CTAO	Charters Tower	33.85 280	P	03 09 18.9 +1.3
STKA	Stevens Creek	34.36 258	P	03 09 23.7 +1.8
STKA	Stevens Creek	34.36 258	P	03 09 23.3 +1.4
STKA	Stevens Creek	34.36 258	P	03 09 23.0 +1.1
STKA	comp-Z, 1.23nm, 0.6s, baz=101, slow=9.9, SNR=36.5		LR	03 22 13.0
STKA	comp-Z, 2um, 20.4s, baz=99, slow=34		LR	
STKA	Stevens Creek	34.36 258	P	03 09 23.7 +1.8
STKA	Stevens Creek	34.36 258 / P	P	03 09 23.6 +1.7
MGBR	Mount Gambier	34.68 247	P	03 09 26.0 +1.5
HTT	Hallett	36.36 254	P	03 09 39.3 +0.1
HTT	comp-Z, 1.17nm, 0.8s		P	
HTT	Hallett	36.36 254	P	03 09 40.5 +1.4
MTSU	Mount Surprise	36.36 281	P	03 09 40.2 +1.0
MTSU	comp-Z, 4.5nm, 0.6s		P	
PTPS	Port Pirie	37.17 255	P	03 09 48.1 +2.2
WHYH	Whyalla	37.54 255	P	03 09 50.3 +1.3
PMG	Port Moresby	38.78 296	LR	03 10 00.2 +0.5
PMG	Port Moresby	38.78 296	LR	03 23 34.5
PMG	Port Moresby	38.78 296	P	03 10 00.2 +0.5
PMG	comp-Z, 2.0nm, 0.7s		pmx	
PMG	Port Moresby	38.78 296	P	03 09 59.8 +0.1
BBOO	Bucklebo	38.83 255	IAMB	03 12 12.6 +2.0
BBOO	Bucklebo	38.83 255	P	03 10 03.6
BBOO	Bucklebo	38.83 255	P	03 09 60.0 0.0
BBOO	comp-Z, 1.37nm, 0.7s		P	
BBOO	Bucklebo	38.83 255	P	03 10 00.9 +0.9
QIS	Mount Isa	39.33 275	P	03 10 04.0 -0.2
QIS	Mount Isa	39.33 275	P	03 10 04.5 +0.2
COEN	Coen	39.38 286	P	03 10 05.5 +0.8
COEN	Coen	39.38 286	P	03 10 05.6 +0.9
COEN	Coen	39.38 286	P	03 10 05.6 +0.9
TAOE	Nuku Hiva Isla	41.50 66	eLR	03 21 36.9
AS01	Alice Springs	43.07 267	P	03 10 34.3 -0.4
AS31	Alice Springs	43.07 267	P	03 10 35.1 +0.1
DZ31	Alice Springs	43.07 267	P	03 10 34.6 -0.4
ASAR	Alice Springs	43.07 267	P	03 10 34.8 -0.2
ASAR	Alice Springs	43.07 267	P	03 10 34.6 -0.4
ASAR	comp-Z, 1.7nm, 0.5s, baz=104, slow=7.4, SNR=242		ScP	
ASAR	comp-Z, 4.8nm, 0.9s, baz=116, slow=4.6, SNR=6.8		LR	03 28 24.8
ASAR	comp-Z, 1.8nm, 0.5s, baz=128, slow=36		P	
ASAR	Alice Springs	43.07 267	P	03 10 34.8 -0.2
DRV	Dumont d'Urville	43.72 203	P	03 10 40.5 +0.9
WRW	Warramunga Arr	43.95 273	IAMB	03 10 41.8 -0.3
WRW			IAMB	03 10 45.6
WRAB	Tennant Creek	44.09 273	IAMS_20	03 29 15.5
WRAB	Tennant Creek	44.09 273	pmx	03 10 42.2 -1.0
WRA	Warramunga Arr	44.10 273	P	03 10 42.8 -0.5
WRA	comp-Z, 4.9nm, 0.5s, baz=112, slow=8.0, SNR=383		LR	03 28 36.4
WBO	Warramunga Arr	44.12 273	IAMB	03 10 43.2 -0.3
WBO	comp-Z, 2um, 18.1s, baz=138, slow=36		P	
WBO	Warramunga Arr	44.12 273	IAMB	03 10 43.2 -0.3
FOR	Forrest	45.91 256	P	03 10 57.2 -0.4
FOR	Forrest	45.91 256	P	03 10 56.9 -0.7
FOR	Forrest	45.91 256	P	03 10 57.2 -0.4
SBA	Scott Base	47.59 184	IAMB	03 11 13.8 +3.8
SBA			IAMB	03 11 17.3
SBA	Scott Base	47.59 184	P	03 11 13.8 +3.8
SBA			pmx	
SBA	Scott Base	47.59 184	P	03 11 14.8 +4.8
SBA			pP	03 11 30.0 +5.0
SBA	Kambalda	48.45 297	ScP	03 16 36.9 +6.8
VNDA	Vanda	47.65 186	P	03 11 13.5 +3.0
VNDA	Vanda	47.65 186	P	03 11 14.1 +3.6
VNDA	comp-Z, 8.7nm, 0.8s, baz=80, slow=6.9, SNR=7.9		P	
VNDA	Vanda	47.65 186	P	03 11 13.9 +3.5
VNDA			PcP	03 12 41.6 +2.2
VNDA			ScP	03 16 34.1 +3.8
JAY	Jayapura	48.09 298	LR	03 30 08.3
GENI	Genyem	48.45 297	LR	03 11 17.9 +0.5
KDU	Kakadu	48.98 280	P	03 11 20.6 -0.9
MTN	Manton Dam	50.03 279	IAMB	03 11 28.9 -0.7
MTN			IAMB	03 11 29.9
MTN	Manton Dam	50.03 279	P	03 11 26.8 -2.8
MTN	Manton Dam	50.03 279	P	03 11 28.4 -1.2
KNRA	Kunurra	50.72 275	IAMB	03 11 53.0
KNRA	Kunurra	50.72 275	P	03 11 34.7 -0.1
KMBL	Kambalda	50.87 253	P	03 11 34.7 -1.1
KMBL	comp-Z, 4.2nm, 1.3s		P	
FITZ	Fitzroy Crossi	52.34 270	LR	03 11 37.0 +1.2
FITZ	Fitzroy Crossi	52.34 270	LR	03 33 00.4
FITZ	Concordia, Ant	52.52 196	P	03 11 47.1 +0.2
CCD	Concordia	52.52 196	P	03 11 49.3 +1.4
CCD			pP	03 12 04.3 +1.4
CCD			ScP	03 16 54.2 +2.7
KLBR	Kellerberrin	54.19 251	P	03 11 58.0 -2.3
KLBR	Kellerberrin	54.19 251	P	03 11 59.7 -0.6
NWAO	Narrogin (SRO)	54.22 250	IAMB	03 11 59.1 -1.5
NWAO			IAMB	03 12 45.4
NWAO	Narrogin (SRO)	54.22 250	LR	03 33 11.2
NWAO	Narrogin (SRO)	54.22 250	P	03 11 59.1 -1.5
NWAO			pmx	
FAKI				

16d 3h

2019 JUN

Table with columns for station call letters, name, frequency, and other identifiers. Includes stations like PSI Prapat, CBX Cerro Bola, MT01 Popeta, etc.

Table with columns for station call letters, name, frequency, and other identifiers. Includes stations like ZON Zonda, LCO Las Campanas, LCO LCO, etc.

Table with columns for station call letters, name, frequency, and other identifiers. Includes stations like N15K Kwethluk River, ELK Elko, EPT El Paso, etc.



16d 3h

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like KOLS Kolonické sedl, DOPR Dopca, and many others.

2019 JUN

Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like ABTA Abfaltersbach, SOTA, and many others.

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Table with columns: Station Name, Frequency, Power, and other technical details. Includes stations like WRA Warramunga Arr, KNRA Kunurra, and many others.

IDC 16 03:10:25 6.0, 6.3, 50.50S: 178.03W, h0km, mb4, 6/8, mbmp4, 6/8, Error ellipse: s-maj=24.6km s-min=23.0km az=47.0

NEIC 16 03:10:31.5: 2.7, 30.7S: 0.1: 177.9W: 0.2, h35km, 2km, mb4, 7/17, Error ellipse: s-maj=27.9km s-min=17.3km az=85.0

ISC 16 03:10:32.0: 0.5, 30.75S: 0.06: 178.1W: 0.1, h46km, n72, g24/75, mb4, 7/19, 5C, Kermadec Islands

Table with columns: Code, Station Name, Frequency, Power, and other technical details. Includes stations like GLKZ Green Lake, RAO Raoul Island, and many others.

SDD 16 03:12:29.2: 1.2, 19.33N: 69.88W, h12km, 23km, MD3.1, ML2.1, MW2.7

OSPL 16 03:12:31.3: 1.4, 19.41N: 69.74W, h25km, 14km, ML2.5

ISC 16 03:12:31.0: 1.0, 19.33N: 0.05: 69.82W: 0.03, h7km, 8km, n10, c117/19, 1D, Dominican Republic region

Table with columns: Code, Station Name, Frequency, Power, and other technical details. Includes stations like LONA1 Toro Cenizo, LOMA1 Loma La Naviza, and many others.

IDC 16 03:14:37.0: 1.1, 30.06S: 178.22W, h0km, mb4, 1/3, mbmp4, 1/3, Error ellipse: s-maj=39.5km s-min=36.5km az=46.0

ISC 16 03:14:43.8: 1.2, 30.05S: 0.3: 178.2W: 0.3, h50km, n9, g05/49, mb4, 0/3, Kermadec Islands

Table with columns: Code, Station Name, Frequency, Power, and other technical details. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, and many others.







GCG 16 05:16:39.0.0.3,13:14N-89:47W,h68km,3km,MD3.7,El Salvador  
 Code Station Name A° AZ° Phase ID Time Res  
 JAYA Jayaque - finc 0.51 2 i P Pn 05 16 51.8 +0.2  
 JAYA JAYA 0.51 2 i P Pn 05 17 01.6 +0.1  
 NUBE Las Nubes 0.82 338 i S Pn 05 16 57.7 +0.4  
 NUBE 0.82 338 i S Pn 05 17 08.7 +1.4  
 MTO3 Montecristo 1.26 5 i P Pn 05 17 01.5 +0.5  
 MTO3 1.26 5 i S Pn 05 17 19.2 +1.8

IDC 16 05:17:10.3.0.3,31:07S:177:98W,h0km,m5.3/21,mtmp5.2/23,ML5.8/1,MS6.0/52,Error ellipse:  
 s-maj=11.9km,s-min=10km,az=5.0  
 BUJ 16 05:17:14.9.1.9,31:00S:0:08:178:1W,0.1,h21km,1km,  
 m5.7/61,MS6.3/96,MS7.6/194  
 NEIC 16 05:17:14.7.31:07S:178:07W,h21km  
 NEIC 16 05:17:14.9.1.9,31:00S:0:08:178:1W,0.1,h21km,1km,  
 m5.7/389,Ms.20.6/3762,Mwb6.2/72,Mww6.3/43,Error  
 ellipse: s-maj=17.4km s-min=13.1km az=92.0, Moment  
 Tensor Solution. Moment tensor: Scale 10<sup>18</sup>Nm;  
 Mn:2.53; Mw:-1.02; Mw:-1.51; Mo:0.29; Mw:-0.65; Mw:1.44;  
 Fault plane solution: Ms:2.730000x10<sup>18</sup> NP1:φ:23.24000°;  
 δ:61.38000°; λ:81.77000°. NP2:φ:22.05000°; δ:69.69000°;  
 λ:104.70000°. Principal axes: T:2.9912,Plg2.0000°;  
 Azm274.0000°; N:0.6459,Plg1.0000°; Azm27.0000°;  
 P:2.3462,Plg16.0000°; Azm119.0000°;  
 NEIC 16 05:17:15.3.31:07S:178:08W,h40km  
 MOS 16 05:17:15.7.1.30:30:97S:178:21W,h36km,m5.9/39,  
 MS6.2/26,Error ellipse: s-maj=8.4km s-min=6.5km  
 az=95.0

NEIC 16 05:17:15.3.31:17S:177:50W,h40km,Moment Tensor  
 Solution. Duration: 62 Moment tensor: Scale 10<sup>18</sup>Nm;  
 Mn:3.34; Mw:-0.51; Mw:-2.84; Mo:0.27; Mw:-0.79; Mw:1.48;  
 Fault plane solution: Ms:3.560000x10<sup>18</sup> NP1:  
 φ:199.53000°; δ:32.56000°; λ:94.40000°. NP2:φ:14.32000°;  
 δ:57.55000°; λ:87.20000°. Principal axes: T:3.6831,  
 Plg77.0000°; Azm275.0000°; N:0.2694,Plg2.0000°;  
 Azm16.0000°; P:-3.4138,Plg13.0000°; Azm106.0000°;  
 IPGP 16 05:17:16.0.31:06S:178:02W,h25km,m6.4, Fault plane  
 solution: NP1:φ:198.0000°; δ:31.0000°; λ:96.0000°;  
 NP2:φ:11.0000°; δ:59.0000°; λ:86.0000°;  
 BGR 16 05:17:17.1.29:53S:177:51W,h27km,ML6.2  
 NOU 16 05:17:18.6.31:40S:177:84W,h50km,Ms6.2/135,  
 Kermadec Islands Region

GCMT 16 05:17:19.9.0.1,31:07S:177:79W,h35km,MW6.3/175,  
 Moment Tensor Solution. s169,c416; s175,c478;  
 Duration: 36 Moment tensor: Scale 10<sup>19</sup>Nm;  
 Mn:3.201; Mw:1.42; Mw:-3.06; Mw:0.43; Mw:0.3;  
 Mw:-0.93; Mw:0.1; Mw:2.47; Mw:0.3; Best double couple:  
 Ms:4.11800x10<sup>18</sup> NP1:φ:201.0000°; δ:26.0000°;  
 λ:97.0000°. NP2:φ:12.0000°; δ:64.0000°; λ:86.0000°;  
 Principal axes: T:4.0590,Plg71.0000°; Azm274.0000°; N:  
 0.1120,Plg3.0000°; Azm14.0000°; P:-4.1760,Plg19.0000°;  
 Azm105.0000°; nst1 refers to body waves, cutoff=40s.  
 nst2 refers to surface/mantle waves, cutoff=50s.  
 Triangular moment-rate function

ISC 16 05:17:15.4.0.4,31:13S:0:03:177:93W,0.0,3,h31km,2km,  
 h31km:pp-P,n2222,az07/2040,m5.7/268,MS6.3/506,  
 153C-71D,Kermadec Islands region

Code	Station Name	A°	AZ°	Phase	ID	Time	Res
						h m s	ISC
GLKZ	Green Lake	1.86	0	P	Pn	05 17 42.6	-2.5
GLKZ				S	Pn	05 18 05.6	-2.0
RAOI	Raoul Island	1.87	0	P	Pn	05 17 42.9	-2.5
RAOI	Raoul Island	1.87	0	P	Pn	05 17 43.2	-2.1
RAOI	Raoul Island	1.87	0	P	Pn	05 17 43.3	-2.1
RIZ	Raoul Island	1.88	0	P	Pn	05 17 43.9	-1.6
MXZ	Matakoao Point	1.73	205	P	Pn	05 18 58.2	+0.6
MXZ	Matakoao Point	1.73	205	P	Pn	05 18 58.0	+0.5
MXZ	Matakoao Point	1.73	205	P	Pn	05 18 55.3	-2.3
MXZ	Matakoao Point	1.73	205	P	Pn	05 18 57.4	+0.3
WMGZ	Waiomatitani S	7.32	203	P	Pn	05 18 57.6	-2.6
WMGZ	Waiomatitani S			S	Pn	05 20 23.0	+0.8
PKGZ	Pakihoro	7.48	205	P	Pn	05 18 59.1	-3.4
PKGZ				S	Pn	05 20 26.6	+0.4
HAZ	Hahei	5.70	207	P	Pn	05 19 00.0	-2.6
HAZ				S	Pn	05 20 28.1	+1.8
PUZ	Puketiti	7.60	203	P	Pn	05 19 00.8	-3.3
PUZ				S	Pn	05 20 26.0	-3.2
KUZ	Kuaotunu	7.69	222	P	Pn	05 19 05.4	+0.2
RUGZ	Raukumara Rang	7.72	207	P	Pn	05 19 02.9	-2.9
RUGZ				S	Pn	05 20 31.1	-1.1
TWZ	Tauwhareparae	7.79	204	P	Pn	05 19 04.4	-2.3
TWZ				S	Pn	05 20 35.6	+1.7
MYRZ	Mayor Island	7.80	217	P	Pn	05 19 10.1	+3.2
WHRZ	Whale Island	7.92	211	P	Pn	05 19 07.8	-0.6
CNRZ	Carnagh Station	7.99	202	P	Pn	05 20 38.3	+1.5
CNRZ				S	Pn	05 19 15.7	+2.6
CNGZ				S	Pn	05 20 39.7	+1.0
WCZ	Waipu Caves	8.03	231	P	Pn	05 19 16.0	+6.0
WIAZ	Waiheke Island	8.06	224	P	Pn	05 19 13.4	+3.0
TKGZ	Te Karaka	8.07	204	P	Pn	05 19 06.9	-3.6
OPRZ	Ohinepanea	8.10	213	P	Pn	05 20 38.4	-2.3
OPRZ				S	Pn	05 19 15.7	+2.6
MWZ	Matawai	8.10	206	P	Pn	05 19 07.6	-3.3
MWZ				S	Pn	05 20 40.1	-1.3
ABAZ	Army Bay	8.12	226	P	Pn	05 19 17.4	+6.2
TGRZ	Tauranga	8.14	214	P	Pn	05 19 14.2	+0.9
MARZ	Manawatu	8.15	212	P	Pn	05 19 13.0	+1.3
MARZ				S	Pn	05 20 44.9	+2.1
OUZ	Omahuta	8.19	238	P	Pn	05 19 17.5	+4.5
OUZ	Omahuta	8.19	238	P	Pn	05 19 16.9	+4.8
MBAZ	Motutapu North	8.19	225	P	Pn	05 19 17.0	+5.0
URZ	Urewera	8.20	208	P	Pn	05 19 08.2	-4.0
URZ	8.3m,0.3s,baz=349,slo=4.0,SNR=52			S	Pn	05 20 36.1	-7.6
URZ	79m,0.3s,baz=167,slo=5.7,SNR=4.5			S	Pn	05 19 12.3	+0.1
URZ	Urewera	8.20	208	P	Pn	05 19 08.3	-4.0
URZ				S	Pn	05 20 42.5	-1.3
URZ	Urewera	8.20	208	P	Pn	05 19 08.4	-3.8
EDRZ	Edgcombce	8.23	211	P	Pn	05 19 12.2	-0.5
EDRZ				S	Pn	05 20 47.7	+3.1
MKAZ	Moumakai	8.26	222	P	Pn	05 19 15.7	+2.6
RAGZ	Rawiri	8.28	206	P	Pn	05 19 11.8	-1.7
RAGZ				S	Pn	05 20 44.3	-1.6
ETAZ	East Tamaki Re	8.29	224	P	Pn	05 19 19.7	+6.2
RIGZ	Rimuhau	8.34	204	P	Pn	05 19 10.6	-3.7
RIGZ				S	Pn	05 20 46.1	-1.3
KARZ	Kaharoa	8.38	213	P	Pn	05 19 18.2	+3.4
OMRZ	Omahua	8.39	212	P	Pn	05 19 12.4	+3.3
OMRZ				S	Pn	05 20 51.1	+2.5
TARZ	Mount Tarawera	8.44	211	P	Pn	05 19 16.2	+0.6
TARZ				S	Pn	05 20 47.4	-2.4
PRGZ	Paritu Road	8.50	203	P	Pn	05 19 12.6	-3.8
PRGZ				S	Pn	05 20 48.4	+0.9
RRRZ	Republican Roa	8.52	211	P	Pn	05 19 17.7	+1.0
HLRZ	Highlands Stat	8.52	212	P	Pn	05 19 17.8	+1.1
MUGZ	Murupara	8.52	209	P	Pn	05 19 14.4	-2.3
TOZ	Tahuroa Road	8.53	218	P	Pn	05 19 19.7	+3.0
TOZ	Tahuroa Road	8.53	218	P	Pn	05 19 20.6	+3.9
RTZ	Ruatahuna	8.55	208	P	Pn	05 19 14.6	-2.6
RTZ	Ruatahuna	8.55	208	P	Pn	05 19 14.5	-2.7
SNZ	Shannon Statio	8.56	206	P	Pn	05 19 14.1	-3.1
KNZ	Kokohu	8.56	203	P	Pn	05 19 14.5	-4.0
HRZ	Handcock Road	8.56	211	P	Pn	05 19 20.7	+2.0
MHGZ	Mahia Peninsula	8.57	212	P	Pn	05 19 15.1	-4.0
PRRZ	Plateau Road	8.60	212	P	Pn	05 19 19.1	-0.1
RAHZ	Arahi	8.77	206	P	Pn	05 19 17.8	-2.4
ALRZ	Allen Road	8.78	211	P	Pn	05 19 19.1	-1.1
WTHZ	Maungataniwha	8.81	208	P	Pn	05 19 18.0	-2.7
WPRZ	Whakapaparinu	8.82	212	P	Pn	05 19 25.3	+4.9
WHZ	Whaua	8.82	212	P	Pn	05 19 18.2	-1.9
KUTZ	Kaahu Road	8.96	213	P	Pn	05 19 25.3	+2.6
MRHZ	Meata Red Rd	8.97	210	P	Pn	05 19 21.0	-1.9
NMHZ	Naumai	9.04	207	P	Pn	05 19 20.5	-3.4
ARHZ	Aropoanui	9.11	206	P	Pn	05 19 21.6	-3.1
WATZ	Wairua	9.12	217	P	Pn	05 19 21.7	+2.1
BKZ	Black Stump Fm	9.22	208	P	Pn	05 19 24.1	-2.3
BKZ	Black Stump Fm	9.22	208	P	Pn	05 19 25.5	-0.8

BKZ	Black Stump Fm	9.22	208	S	Pn	05 21 07.2	-1.8
BKZ	Black Stump Fm	9.22	208	P	Pn	05 19 22.1	-4.2
RATZ	Rangitukia	9.28	212	P	Pn	05 19 27.5	+0.3
RITZ	Riccarton Hill	9.33	211	P	Pn	05 19 26.8	-1.0
MCHZ	McNeill Road	9.38	206	P	Pn	05 19 24.7	-3.8
CKHZ	Cherry Kidnapper	9.43	212	P	Pn	05 19 24.9	-4.2
HIZ	Hauti	9.45	217	P	Pn	05 19 31.8	+2.4
HIZ	Hauti	9.45	217	P	Pn	05 19 30.5	+1.1
KWHZ	Kaweka Forest	9.47	208	P	Pn	05 19 27.1	-2.6
NTVZ	North Tongariro	9.52	212	P	Pn	05 19 30.8	+0.4
TWVZ	Te Maari	9.52	211	P	Pn	05 19 27.8	-2.6
ETVZ	East Tongariro	9.53	211	P	Pn	05 19 28.9	-1.7
TWVZ	West Tongariro	9.57	212	P	Pn	05 19 32.2	+1.1
NNVZ	North Ngauruhoe	9.57	212	P	Pn	05 19 31.0	-0.2
OTVZ	Otutere	9.57	211	P	Pn	05 19 31.0	-0.2
TWVZ	Te Aranga	9.60	212	P	Pn	05 19 32.4	+0.8
SNVZ	South Ngauruhoe	9.60	211	P	Pn	05 19 31.1	-0.6
NGZ	Ngauruhoe	9.61	212	P	Pn	05 19 30.8	-0.9
KAHZ	Kahurangi	9.62	205	P	Pn	05 19 26.6	-5.2
COVZ	Chateau Observ	9.66	212	P	Pn	05 19 33.7	+1.4
TUVZ	Tukino	9.66	211	P	Pn	05 19 31.8	-0.7
PRVZ	Purangi	9.67	209	P	Pn	05 19 27.8	-4.7
FWVZ	Far West T-bar	9.70	212	P	Pn	05 19 31.7	-1.3
WHVZ	Whangape Hut	9.70	211	P	Pn	05 19 31.1	-2.0
MAVZ	Matangi	9.71	211	P	Pn	05 19 32.4	+0.7
MOVZ	Motowangi	9.73	210	P	Pn	05 19 30.2	-3.1
TRVZ	Turoa	9.74	211	P	Pn	05 19 32.0	-1.5
WVZ	Whianoho	9.82	212	P	Pn	05 19 32.6	+0.6
PKVZ	Pokaka	9.82	212	P	Pn	05 19 34.2	-0.3
PXZ	Pawani	9.84	204	P	Pn	05 19 29.9	-4.8
VRZ	Vera Road	9.97	215	P	Pn	05 19 40.0	+3.5
WPHZ	Waipukurua	10.02	206	P	Pn	05 19 32.7	-4.5
WRVZ	Whararua	10.13	212	P	Pn	05 19 37.9	-5.0
DVHZ	Dannock	10.33	206	P	Pn	05 19 36.6	-4.8
ANWZ	Ananga Road	10.36	204	P	Pn	05 19 37.9	-3.9
WAZ	Wangaroa	10.36	212	P	Pn	05 19 39.8	-2.1
LREZ	Lake Rotokare	10.40	215	P	Pn	05 19 41.1	-1.4
NEZ	North Egmont	10.41	217	P	Pn	05 19 49.2	+6.5
KEVZ	Kerikeri	10.47	217	P	Pn	05 19 42.7	+2.7
POVZ	Post Office Ro	10.56	207	P	Pn	05 19 41.7	-2.9
PRWZ	Port Road	10.62	206	P	Pn	05 19 42.6	-2.8
BFZ	Birch Farm	10.63	205	P	Pn	05 19 43.8	-1.8
BFZ	Birch Farm	10.63	205	P	Pn	05 19 45.2	-0.4
BFZ	Birch Farm	10.63	205	P	Pn	05 19 39.3	-6.3
TWVZ	Tuamata	10.85	206	P	Pn	05 19 40.6	-1.6
MRZ	Mangatainoka R	10.86	207	P	Pn	05 19 45.3	-3.4
HOWZ	Holdsword Sta	11.09	207	P	Pn	05 19 45.4	-6.5
TWVZ	Te Maipa	11.13	205	P	Pn	05 19 46.1	-6.4
KIWI	Kapiti Island	11.30	209	P	Pn	05 19 49.2	-5.5
MTW	Mount Taranaki	11.32	212	P	Pn	05 19 47.1	-6.4
TRVZ	Traveller	11.25	205	P	Pn	05 19 50.0	-6.9
PAVZ	Parau Road	11.54	206	P	Pn	05 19	





16d 5h

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Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like TIA, R18K, UNM, CN2, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like GYA, Y22D, MXC, O20K, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like M16K, NNA, Y22D, etc.



JLU	baz=204 Jordanelle comp=Z,46nm,1.8s	94.19	44	I	Amb	I	Amb	05 31 10.2
KMI	Kunming	94.20	297	P	PP	P	PP	05 30 32.3 +0.5 05 34 21.1 +2.0 05 41 03.8 -1.2 05 41 43.5 +0.9
KMI	comp=Z,30nm,1.5s							
KMI	comp=Z,1µm,13.4s					pmax	pmax	
KMI	comp=Z,6µm,20.5s					LR	LR	
KMI	comp=Z,4µm,20.3s					LR	LR	
P23K	Montague Islan baz=206	94.22	15	P	P	P	P	05 30 31.3 +0.5 05 41 42.8 +3.4
J14K	Nanvaranak Lak baz=192	94.26	7	P	S	S	S	05 30 31.5 +0.6 05 41 41.9 +2.3
L17K	Donlin baz=197,SNR=9.8	94.28	9	P	P	P	P	05 30 31.7 +0.7 05 41 43.7 +3.9
PV19	Morning Glory comp=Z,30nm,1.2s	94.32	47	I	Amb	I	Amb	05 30 55.4
PV10	Paradox Valley comp=Z,25nm,1.1s	94.32	47	I	Amb	I	Amb	05 31 13.5
PV18	Skein Mesa, Pa comp=Z,32nm,1.2s	94.33	48	I	Amb	I	Amb	05 31 02.7
HEH	HeiHe	94.36	328	eP	sP	P	pwP	05 30 29.8 -1.8 05 30 45.3 -0.1 05 40 58.8 -5.3 05 41 38.4 -2.6
HEH	comp=Z,12nm,1.2s					pmax	pmax	
HEH	comp=Z,2µm,6.9s					LR	LR	
HEH	comp=Z,6µm,18.8s					LR	LR	
HEH	comp=Z,3µm,19.0s					LR	LR	
HEH	comp=Z,10µm,19.4s					LR	LR	
N20K	Mount Spurr baz=202	94.36	12	P	S	S	S	05 30 31.8 +0.3 05 41 40.5 -0.2
N20K	Spurr Chakacha baz=202	94.36	12	P	P	P	P	05 30 31.8 +0.3 05 41 40.9 +0.2
SPCR	Craig baz=217	94.39	24	P	S	S	S	05 30 32.1 +0.6 05 41 49.9 +9.0
CRAG	baz=217							
PV23	Carpenter Ridg comp=Z,37nm,1.4s	94.39	47	I	Amb	I	Amb	05 32 32.0
TIY	Taiyuan	94.40	312	eP	PP	P	PP	05 30 32.3 +0.1 05 34 17.0 -3.3 05 41 03.3 -1.9 05 41 36.8 -5.3
TIY	comp=Z,1µm,5.4s					LR	LR	
TIY	comp=Z,5µm,22.0s					LR	LR	
TIY	comp=Z,4µm,20.6s					LR	LR	
TIY	comp=Z,9µm,24.7s					LR	LR	
PV02	Paradox Valley comp=Z,44nm,1.5s	94.41	48	I	Amb	I	Amb	05 31 03.1
PL12	Pearl Lake comp=Z,55nm,1.4s	94.43	39	I	Amb	I	Amb	05 30 51.1
PV02	Saucer Basin, comp=Z,42nm,1.3s	94.44	47	I	Amb	I	Amb	05 30 59.7
ATAH	Atahualpa comp=Z,4µm,21.1s,baz=245,slow=30	94.45	101	LR	LR	LR	LR	06 03 55.5
PV21	Cone Mtn., Par comp=Z,66nm,1.9s	94.47	47	I	Amb	I	Amb	05 30 42.4
TCUT	Toone Canyon comp=Z,45nm,1.4s	94.53	44	I	Amb	I	Amb	05 30 42.5
L18K	Granite Mounta baz=198	94.59	10	P	S	S	S	05 30 33.1 +0.7 05 41 44.4 +1.9
L18K	baz=198							
XAN	Xi'an	94.60	307	P	P	P	P	05 30 33.3 +0.1 05 30 48.6 +1.7 05 41 05.8 -0.6 05 41 43.5 -0.5
XAN	comp=Z,26nm,1.5s					pmax	pmax	
XAN	comp=Z,3µm,5.7s					LR	LR	
XAN	comp=Z,4µm,17.9s					LR	LR	
XAN	comp=Z,4µm,16.8s					LR	LR	
PB11	IPOC Station P comp=Z,12µm,22.0s	94.61	116	I	Amb	I	Amb	06 03 20.0
M19K	Big River Lodg comp=Z,8µm,22.0s	94.64	11	I	Amb	I	Amb	06 08 09.7
M19K	Big River Lodg baz=200	94.64	11	P	P	P	P	05 30 33.0 +0.3 05 41 44.0 +0.9
M19K	baz=200							
FIS	Fire Island comp=Z,13µm,20.0s	94.68	13	I	Amb	I	Amb	06 08 39.8
STLK	Strandline Lak comp=Z,15nm,0.5s	94.70	12	I	Amb	I	Amb	05 30 22.7
GAMB	Gambell comp=Z,10µm,20.0s	94.71	3	I	Amb	I	Amb	06 08 46.9
GAMB	Gambell baz=185	94.71	3	P	P	P	P	05 30 33.6 +0.7 05 41 46.4 +2.9
GAMB	baz=185							
RC01	Rabbit Creek A comp=Z,10µm,20.0s	94.72	13	I	Amb	I	Amb	06 08 18.0
RC01	Rabbit Creek A baz=204	94.72	13	P	P	P	P	05 30 34.3 +1.2 05 41 45.8 +2.0
RC01	baz=204							
HWUT	Hardware Ranch comp=Z,9µm,20.0s	94.73	44	I	Amb	I	Amb	06 07 04.5
HIN	Hinchinbrook I comp=Z,14µm,21.0s	94.78	117	I	Amb	I	Amb	06 08 16.5
PB08	IPOC Station P comp=Z,10µm,20.0s	94.78	117	I	Amb	I	Amb	06 04 30.5
PWL	Port Wells baz=205	94.80	14	P	S	S	S	05 30 34.6 +1.2 05 41 46.1 +1.6
PWL	baz=205							
V35K	Ketchikan baz=218	94.80	25	P	P	P	P	05 30 34.8 +1.3 05 41 54.0 +9.4
V35K	baz=218							
L19K	White Mountain comp=Z,42nm,1.1s	94.83	11	I	Amb	I	Amb	05 30 40.0
L19K	comp=Z,8µm,19.0s					I	Amb	06 15 06.6
L19K	White Mountain baz=200,SNR=23	94.83	11	P	P	P	P	05 30 34.1 +0.5 05 41 47.3 +2.6
L19K	baz=200							
M20K	Styx River comp=Z,12µm,22.0s	94.83	12	I	Amb	I	Amb	06 08 17.7
M20K	Styx River baz=201	94.83	12	P	S	S	S	05 30 33.7 +0.1 05 41 44.1 -0.8
M20K	baz=201							
K17K	Iditarod comp=Z,27nm,1.2s	94.84	9	I	Amb	I	Amb	05 30 52.3
K17K	comp=Z,8µm,19.0s					I	Amb	06 15 31.6
K17K	Iditarod baz=197	94.84	9	P	P	P	P	05 30 34.3 +0.8 05 41 47.7 +3.0
K17K	baz=197							
KAIM	Kayak Island comp=Z,10µm,19.0s	94.84	16	I	Amb	I	Amb	06 08 23.3

KAIM	Kayak Island baz=208	94.84	16	P	P	P	P	05 30 35.1 +1.5 05 41 50.9 +6.1
KAIM	baz=208							
SUA	Susitna One baz=203	94.87	13	P	P	P	P	05 30 34.9 +1.0 05 41 46.8 +1.5
SUA	baz=203							
AP01	Chacaluta comp=Z,9µm,22.0s	94.88	115	I	Amb	I	Amb	06 04 28.1
U33K	Whale Pass baz=217	94.90	23	P	P	P	P	05 30 36.1 +2.2 05 41 53.3 +7.9
U33K	baz=217							
SIT	Sitka baz=216	94.94	22	P	P	P	P	05 30 35.2 +1.2 05 41 53.1 +7.5
SIT	baz=216							
GO01	Chusmiza comp=Z,11µm,20.0s	95.02	116	I	Amb	I	Amb	06 03 55.8
GLI	Glacier Island comp=Z,27nm,0.9s	95.08	15	I	Amb	I	Amb	05 30 37.8
GLI	Glacier Island baz=206	95.08	15	P	P	P	P	05 30 35.2 +0.5 05 41 48.8 +1.9
GLI	baz=206							
EYAK	Cordova Ski Ar baz=207	95.08	15	P	P	P	P	05 30 34.6 0.0 05 41 51.7 +4.8
EYAK	baz=207							
J16K	Anvik River comp=Z,38nm,0.9s	95.10	8	I	Amb	I	Amb	05 30 55.8
J16K	Anvik River baz=195	95.10	8	P	P	P	P	05 30 35.4 +0.7 05 41 49.6 +2.7
J16K	baz=195							
SUCK	Sucking Hills comp=Z,10µm,20.0s	95.12	16	I	Amb	I	Amb	06 08 21.8
SKT	Skwentna comp=Z,12µm,21.0s	95.21	12	I	Amb	I	Amb	06 09 21.6
SKT	Skwentna baz=203	95.21	12	P	P	P	P	05 30 34.7 -0.5 05 41 47.6 -0.4
SKT	baz=203							
M22K	Willow comp=Z,75nm,1.2s	95.26	13	I	Amb	I	Amb	05 31 07.1
M22K	Willow baz=204	95.26	13	P	P	P	P	05 30 35.4 0.0 05 41 49.6 +1.3
M22K	baz=204							
L20K	Farewell, AK baz=201	95.27	11	P	P	P	P	05 30 35.8 +0.2 05 41 49.6 +1.1
L20K	baz=201							
KNK	Knik Glacier comp=Z,22nm,1.0s	95.28	14	I	Amb	I	Amb	05 30 39.0
KNK	comp=Z,12µm,20.0s					I	Amb	06 09 09.6
KNK	Knik Glacier baz=205	95.28	14	P	P	P	P	05 30 35.7 +0.1 05 41 50.4 +1.8
KNK	baz=205							
BGLC	Bering Glacier baz=209	95.28	17	P	P	P	P	05 30 35.9 +0.3 05 41 53.6 +5.1
BGLC	baz=209							
PMR	Palmer baz=205	95.30	13	P	P	P	P	05 30 38.1 +2.4 05 30 34.6 +1.1 05 30 35.7 +0.1
PMR	Palmer baz=205	95.30	13	P	P	P	P	05 30 35.7 +0.1 05 41 49.8 +1.1
PMR	baz=205							
S22A	4UR Ranch, Cre comp=Z,10µm,19.0s	95.36	49	I	Amb	I	Amb	06 08 48.7
S31K	Pelican baz=215	95.39	21	P	P	P	P	05 30 36.1 0.0 05 41 57.3 +7.7
S31K	baz=215							
J17K	VABM Dome comp=Z,31nm,1.4s	95.39	8	I	Amb	I	Amb	05 30 42.8
J17K	VABM Dome baz=196	95.39	8	P	P	P	P	06 12 19.3 05 30 36.5 +0.4 05 41 52.7 +3.2
J17K	baz=196							
WRAK	Wrangell Islan baz=218	95.41	23	P	P	P	P	05 30 36.7 +0.4 05 41 57.8 +8.0
WRAK	baz=218							
S32K	Killsnoo comp=Z,9µm,20.0s	95.51	22	I	Amb	I	Amb	06 06 23.5
S32K	Killsnoo baz=216	95.51	22	P	P	P	P	05 30 37.0 +0.3 05 41 57.5 +6.9
S32K	baz=216							
GHO	Glory Hole Cre comp=Z,25nm,0.9s	95.51	13	I	Amb	I	Amb	05 30 40.0
T33K	Petersburg baz=218	95.51	23	P	P	P	P	05 30 37.9 +1.2 05 41 59.3 +8.6
T33K	baz=218							
DIV	Divide comp=Z,10µm,20.0s	95.59	15	I	Amb	I	Amb	06 08 53.1
SML	Sawmill comp=Z,10µm,20.0s	95.66	14	I	Amb	I	Amb	06 09 22.8
SML	Sawmill baz=205	95.66	14	P	P	P	P	05 30 37.5 +0.1 05 41 55.0 +3.0
SML	baz=205							
MESA	MESA comp=Z,11µm,19.0s	95.67	17	I	Amb	I	Amb	06 14 03.3
MESA	MESA baz=210	95.67	17	P	P	P	P	05 30 37.5 -0.2 05 41 57.9 +5.5
MESA	baz=210							
I17K	Unalakleet baz=195	95.67	8	P	P	P	P	05 30 37.8 +0.6 05 41 54.3 +2.5
I17K	baz=195							
WAX	Waxell Ridge comp=Z,13µm,22.0s	95.68	17	I	Amb	I	Amb	06 05 11.5
PZH	PanZhiHua	95.69	297	PP	PP	P	PP	05 30 39.0 +0.5 05 34 32.0 +1.4 05 41 05.5 -7.2 05 41 59.0 +4.2
PZH	comp=Z,10.0nm,0.8s					pmax	pmax	
PZH	comp=Z,1µm,7.1s					LR	LR	
PZH	comp=Z,3µm,21.1s					LR	LR	
PZH	comp=Z,9µm,21.6s					LR	LR	
BMRM	Bremner River comp=Z,2µm,21.0s	95.72	16	I	Amb	I	Amb	05 30 43.3
BMRM	Bremner River comp=Z,26nm,1.0s					I	Amb	06 08 33.4
BMRM	comp=Z,10µm,20.0s							
BMRM	Bremner River baz=208	95.72	16	P	P	P	P	05 30 38.5 +0.8 05 41 55.9 +3.5
BMRM	baz=208							
AHID	Auburn Hatcher comp=Z,32nm,1.3s	95.72	43	I	Amb	I	Amb	05 31 16.8
AHID	comp=Z,8µm,22.0s					I	Amb	06 05 18.4
M23K	Glacier View baz=206	95.77	14	P	P	P	P	05 30 38.6 +0.8 05 41 55.8 +3.0
M23K	baz=206							
J18K	Innoko River comp=Z,80nm,1.9s	95.77	9	I	Amb	I	Amb	05 30 43.4
J18K	Inno River baz=198,SNR=16	95.77	9	P	S	S	S	05 30 38.0 +0.1 05 41 54.4 +1.6
J18K	baz=198							
U35K	Hyder comp=Z,7µm,20.0s	95.83	25	I	Amb	I	Amb	06 10 37.3
U35K	Hyder baz=220	95.83	25	P	P	P	P	05 30 39.0 +0.8 05 42 01.8 +8.3
U35K	baz=220							
CUT	Chulitna baz=204	95.83						



WMOK	Wichita Mounta	99.14	55	IAMS_20	IAMS_20	06 12 33.5			
D17K	Noatak River	99.16	6	Pdiff	Pdif	05 30 53.7 +0.7			
LZH	Lanzhou	99.20	307	P	Pdiff	05 30 53.6 -0.6			
LZH				SP	SKSac	05 31 09.9 +2.0			
LZH				SKS	SKSac	05 41 31.1 +0.7			
LZH				S	SKSac	05 42 16.8 -6.9			
LZH	comp=Z,14nm,1.1s			pmax	pmax				
LZH	comp=Z,1.1um,5.0s			pmax	pmax				
LZH	comp=Z,4um,19.6s			LR	LR				
LZH	comp=Z,1.1um,19.8s			LR	LR				
LZH	comp=Z,6um,21.1s			LR	LR				
ESPN	Las Esperanzas	99.27	81	IAMS_20	IAMS_20	06 09 44.9			
F20K	Avarast Lake	99.32	9	IAMS_20	IAMS_20	06 10 60.0			
F20K	Avarast Lake	99.32	9	Pdiff	Pdif	05 30 55.1 +1.4			
M31M	Drury Creek, Y	99.38	19	IAMS_20	IAMS_20	06 12 54.6			
M31M	Drury Creek, Y	99.38	19	Pdiff	Pdif	05 30 54.8 +0.7			
H42M	Noodor Dome	99.40	12	Pdiff	Pdif	05 30 55.0 +0.8			
WTLY	Watson Lake, Y	99.46	23	Pdiff	Pdif	05 30 55.5 +1.0			
CPUP	Villa Florida	99.49	128	LR	LR	06 07 57.1			
E19K	Redstone River	99.52	8	IAMS_20	IAMS_20	06 18 32.3			
E19K	Redstone River	99.52	8	Pdiff	Pdif	05 30 55.3 +0.7			
RDGO	Red Dog Mine	99.52	6	IAMS_20	IAMS_20	06 10 22.1			
RDGO	Red Dog Mine	99.52	6	Pdiff	Pdif	05 30 55.7 +1.1			
C16K	Lisburne Hills	99.55	5	IAMS_20	IAMS_20	06 12 58.8			
C16K	Lisburne Hills	99.55	5	Pdiff	Pdif	05 30 55.5 +0.8			
PRP	Porcupine Dome	99.55	13	Pdiff	Pdif	05 30 55.6 +0.6			
BILL	Bilibino	99.57	354	P	Iamb	05 30 54.4 -0.4			
BILL				IAMS_20	IAMS_20	06 10 53.1			
BILL	comp=Z,28nm,1.3s			IAMS_20	IAMS_20	06 10 53.1			
BILL	comp=Z,1.1um,20.0s	99.57	354	iP	pmax	05 30 54.4 -0.4			
BILL	comp=Z,27nm,1.5s			MLR	MLR				
BILL	comp=Z,3um,21.0s								
DAWY	Dawson	99.62	16	Pdiff	Pdif	05 30 55.9 +0.7			
FARO	Faro, Yukon	99.70	19	Pdiff	Pdif	05 30 56.6 +1.0			
TOAD	Toad River Com	99.75	25	Pdiff	Pdif	05 30 56.6 +0.7			
F21K	Alatina River	99.78	9	IAMS_20	IAMS_20	06 18 23.2			
F21K	Alatina River	99.78	9	Pdiff	Pdif	05 30 57.1 +1.3			
G22K	Bettles	99.79	10	Pdiff	Pdif	05 30 56.4 +0.6			
G23K	Bananza Creek	99.83	11	IAMS_20	IAMS_20	06 12 33.7			
G23K	Bananza Creek	99.83	11	Pdiff	Pdif	05 30 57.2 +1.2			
I26K	Coal Creek Min	99.84	14	IAMS_20	IAMS_20	06 11 50.4			
I26K	Coal Creek Min	99.84	14	Pdiff	Pdif	05 30 57.9 +1.8			
LIRD	Liard River Hi	99.85	24	Pdiff	Pdif	05 30 57.9 +1.7			
K29M	Barlow Dome	99.89	17	IAMS_20	IAMS_20	06 12 16.9			
K29M	Barlow Dome	99.89	17	Pdiff	Pdif	05 30 57.5 +1.0			
C17K	DeLong Mountai	99.91	5	Pdiff	Pdif	05 30 57.2 +0.9			
OK038	West End E0370	100.07	54	IAMS_20	IAMS_20	06 13 43.9			
MAYO	Mayo, Yukon	100.10	18	Pdiff	Pdif	05 30 58.2 +0.9			
H25L	Birch Creek	100.16	13	Pdiff	Pdif	05 30 58.4 +0.9			
J29N	Klondike Camp	100.23	16	IAMS_20	IAMS_20	06 08 19.7			
J29N	Klondike Camp	100.23	16	Pdiff	Pdif	05 30 59.0 +1.1			
F22K	John River	100.23	10	Pdiff	Pdif	05 30 59.0 +1.2			
G24K	Hadweenciz Riv	100.25	12	Pdiff	Pdif	05 30 59.0 +1.1			
C18K	Utukok River	100.25	6	IAMS_20	IAMS_20	06 16 02.5			
C18K	Utukok River	100.25	6	Pdiff	Pdif	05 30 59.1 +1.2			
COLD	Coldfoot	100.28	11	IAMS_20	IAMS_20	06 17 16.5			
COLD	Coldfoot	100.28	11	Pdiff	Pdif	05 30 59.1 +1.1			
E20K	Nigu River	100.41	8	Pdiff	Pdif	05 30 59.3 +0.7			
D19K	Kuna River	100.41	7	IAMS_20	IAMS_20	06 21 28.8			
D19K	Kuna River	100.41	7	Pdiff	Pdif	05 30 59.7 +1.1			
I27K	Kandik River	100.43	14	Pdiff	Pdif	05 31 00.2 +1.5			
FYU	Fort Yukon	100.54	13	IAMS_20	IAMS_20	06 11 22.6			
G25K	Bearman Lake	100.55	12	Pdiff	Pdif	05 31 00.1 +0.9			
CBKS	Cedar Bluff	100.61	51	IAMS_20	IAMS_20	06 07 47.8			
MMPY	Sheldon Lake	100.61	20	Pdiff	Pdif	05 31 00.2 +0.6			
OK029	Liberty Lake	100.62	55	IAMS_20	IAMS_20	06 14 07.5			
I28M	Miner Creek	100.66	15	IAMS_20	IAMS_20	06 17 29.1			
I28M	Miner Creek	100.66	15	Pdiff	Pdif	05 31 00.5 +0.6			
TGNT	Hyland Airport	100.69	22	Pdiff	Pdif	05 31 00.6 +0.6			
RSSD	Black Hills	100.70	45	IAMS_20	IAMS_20	06 10 51.4			
RSSD	Black Hills	100.70	45	P	Pdiff	05 31 01.0 +0.3			
BEAVL	Fort Liard	100.77	24	Pdiff	Pdif	05 31 01.4 +1.1			
D20K	Etiuvuk River	100.79	8	IAMS_20	IAMS_20	06 12 53.9			
D20K	Etiuvuk River	100.79	8	Pdiff	Pdif	05 31 01.1 +0.9			
J30M	Hart River	100.79	17	Pdiff	Pdif	05 31 01.9 +1.5			
C19K	Lookout Ridge	100.85	7	IAMS_20	IAMS_20	06 19 22.3			
E21K	Killik River	100.86	9	Pdiff	Pdif	05 31 01.8 +1.2			
E22K	Anaktuvuk Pass	100.87	10	IAMS_20	IAMS_20	06 19 11.1			
E22K	Anaktuvuk Pass	100.87	10	Pdiff	Pdif	05 31 02.3 +1.6			
B18K	Kokolik River	100.89	6	Pdiff	Pdif	05 31 02.1 +1.5			
IMP4	Squaw Lake	100.91	292	eP	Pdiff	05 31 01.4 -0.6			
I29M	Ogilvie Camp	100.96	16	IAMS_20	IAMS_20	06 12 01.1			
I29M	Ogilvie Camp	100.96	16	Pdiff	Pdif	05 31 02.2 +1.1			
H27K	Steamboat Moun	100.98	14	IAMS_20	IAMS_20	06 12 35.5			
H27K	Steamboat Moun	100.98	14	Pdiff	Pdif	05 31 02.6 +1.4			

KOTAN	Kotanelee Air	101.09	24	Pdiff	Pdif	05 31 03.2 +1.4			
R32A	Long Quarter	101.09	52	IAMS_20	IAMS_20	06 14 24.5			
E23K	Chandler	101.13	10	Pdiff	Pdif	05 31 02.7 +0.9			
G26K	Porcupine Rive	101.15	13	Pdiff	Pdif	05 31 02.9 +1.0			
OK052	Battle Ridge R	101.17	55	IAMS_20	IAMS_20	06 14 06.9			
441A	DeRider	101.19	61	IAMS_20	IAMS_20	06 09 41.8			
I30M	Mount Dempster	101.31	17	IAMS_20	IAMS_20	06 08 53.4			
I30M	Mount Dempster	101.31	17	Pdiff	Pdif	05 31 03.8 +1.0			
E24K	Your Creek	101.32	11	IAMS_20	IAMS_20	06 13 09.2			
E24K	Your Creek	101.32	11	Pdiff	Pdif	05 31 04.0 +1.4			
F25K	Christian River	101.37	12	Pdiff	Pdif	05 31 04.7 +1.8			
AZL	Aizawl	101.38	291	eP	Pdiff	05 31 03.5 -0.5			
OK051	E0350 and S346	101.41	54	IAMS_20	IAMS_20	06 14 49.0			
C21K	Knifeblade Rid	101.43	8	Pdiff	Pdif	05 31 04.4 +1.3			
D22K	Aiyikav River	101.44	9	Pdiff	Pdif	05 31 04.9 +1.8			
G27K	Doyon Strip	101.45	14	IAMS_20	IAMS_20	06 12 12.9			
G27K	Doyon Strip	101.45	14	Pdiff	Pdif	05 31 05.0 +1.7			
BCIP	Isla Barro Col	101.58	86	IAMS_20	IAMS_20	06 12 05.1			
H29M	Whitstone	101.66	15	IAMS_20	IAMS_20	06 11 44.6			
H29M	Whitstone	101.66	15	Pdiff	Pdif	05 31 05.3 +1.2			
TOLK	Toad Lake Re	101.67	10	Pdiff	Pdif	05 31 05.9 +1.7			
F26K	Sheenjek River	101.74	13	IAMS_20	IAMS_20	06 13 02.3			
F26K	Sheenjek River	101.74	13	Pdiff	Pdif	05 31 06.3 +1.8			
A19K	Wainwright	101.78	6	Pdiff	Pdif	05 31 05.9 +1.4			
D23K	Nanushuk River	101.80	10	IAMS_20	IAMS_20	06 13 20.7			
D23K	Nanushuk River	101.80	10	Pdiff	Pdif	05 31 06.0 +1.3			
T35A	Sooner Cattle	101.84	54	IAMS_20	IAMS_20	06 15 01.4			
B21K	Ikkipuk River	101.89	8	IAMS_20	IAMS_20	06 19 58.9			
B21K	Ikkipuk River	101.89	8	Pdiff	Pdif	05 31 06.2 +1.1			
YAK	Yakutsk	101.94	338	IAMS_20	IAMS_20	06 10 17.1			
YAK	Yakutsk	101.94	338	eP	Pdiff	05 31 05.4 0.0			
YAK	Yakutsk	101.94	338	ePPP	SKSac	05 37 24.0			
YAK	Yakutsk	101.94	338	eS	SKSac	05 41 43.7 +1.6			
YAK	Yakutsk	101.94	338	eSS	SKS	05 44 19.9 +1.9			
YAK	Yakutsk	101.94	338	eSSS	SSS	05 43 53.2			
YAK	comp=Z,11nm,0.9s			pmax	pmax				
YAK	comp=N,2.0nm,0.9s			pmax	pmax				
YAK	comp=E,3.0nm,1.0s			pmax	pmax				
YAK	comp=E,168nm,4.0s			smax	smax				
B20K	Meade River	101.96	7	IAMS_20	IAMS_20	06 20 17.8			
B20K	Meade River	101.96	7	Pdiff	Pdif	05 31 07.1 +1.7			
EPYK	Eagle Plains	102.17	16	Pdiff	Pdif	05 31 07.5 +1.0			
D24K	Happy Valley	102.25	10	IAMS_20	IAMS_20	06 19 59.6			
D24K	Happy Valley	102.25	10	Pdiff	Pdif	05 31 08.3 +1.6			
ITAB	Concordia	102.27	132	IAMS_20	IAMS_20	06 09 42.1			
H31M	Peel River	102.28	17	IAMS_20	IAMS_20	06 15 48.1			
H31M	Peel River	102.28	17	Pdiff	Pdif	05 31 07.5 +0.5			
ZIRO	ZIRO	102.29	295	eP	Pdiff	05 31 09.0 +0.9			
G29M	Pine Creek	102.32	15	IAMS_20	IAMS_20	06 13 06.9			
G29M	Pine Creek	102.32	15	Pdiff	Pdif	05 31 08.1 +1.0			
ROCAM	Rodriguez Isla	102.41	238	IAMS_20	IAMS_20	06 09 17.0			
F28M	Old Crow	102.51	14	Pdiff	Pdif	05 31 09.1 +1.1			
AGT	Agartala	102.61	290	eP	Pdiff	05 31 08.6 -0.7			
C23K	Itkillik River	102.61	9	IAMS_20	IAMS_20	06 14 00.1			
C23K	Itkillik River	102.61	9	Pdiff	Pdif	05 31 10.1 +1.8			
E27K	Coleen River	102.65	13	Pdiff	Pdif	05 31 09.8 +1.2			
K30B	Basset	102.67	48	IAMS_20	IAMS_20	06 14 41.0			
TEZP	TEZPUR	102.67	293	eP	Pdiff	05 31 09.7 +0.1			
B22K	Teshhekup Lake	102.71	8	IAMS_20	IAMS_20	06 17 11.6			
B22K	Teshhekup Lake	102.71	8	Pdiff	Pdif	05 31 10.5 +1.8			
M2AR	Mount Ida	102.75	57	IAMS_20	IAMS_20	06 11 28.0			
C24K	Franklin Bluff	102.78	10	IAMS_20	IAMS_20	06 20 45.7			
C24K	Franklin Bluff	102.78	10	Pdiff	Pdif	05 31 10.2 +1.1			
G30M	Laoh Zhai Nji	102.78	16	Pdiff	Pdif	05 31 09.8 +0.6			
D25K	Kav River	102.79	11	Pdiff	Pdif	05 31 09.8 +0.7			
KSU1	Kansas State U	102.86	52	IAMS_20	IAMS_20	06 12 25.1			
DGMT	Dagm	1							



ARA0	ARCESS Array S	139.31 348	eP	PKPdf	05 36 33.0	-5.4
ARA0			ePKPdf	PKIKP	05 36 39.2	-1.6
ARA0			IVmB_BB		05 36 43.7	
comp-Z,882nm,2.3s						
ARA0			ePP	PP	05 39 32.5	0.0
ARA0			ePP	PP	05 39 33.4	+0.8
ARA0			eSS	SS	05 57 47.5	-0.5
ARA0			IVMs_BB	IVMs_BB	06 36 24.7	
comp-Z,3um,26.5s						
ARCES	ARCESS Array B	139.31 348	PKHkp	PKPpre	05 36 31.7	
ARCES	ARCESS Array B	139.31 348	PKHkp	PKPpre	05 36 31.2	
ARCES			SKPbc		05 40 12.2	+0.8
comp-Z,29nm,1.0s,baz=5.2,slow=2.7,SNR=20						
ARCES	ARCESS Array B	139.31 348	PKHkp	PKPpdf	05 36 31.7	
JMIC	Jan Mayen	139.67 5	ePKPdf	PKPdf	05 36 37.0	-2.1
JMIC			ePP	PP	05 39 32.6	-2.0
JMIC			IVMs_BB	IVMs_BB	06 34 57.1	
comp-Z,1um,17.9s						
JNE	Jan Mayen East	139.68 5	ePKPdf	PKPdf	05 36 39.7	+0.7
JNE			IVmB_BB		05 36 45.4	
comp-Z,904nm,3.5s						
JNE			ePP	PP	05 39 34.9	+0.3
JNE			eSS	SS	05 57 55.7	+3.6
JMI	Jan Mayen	139.71 5	ePKPdf	PKPdf	05 36 40.0	+0.9
JMI			IVmB_BB		05 36 41.2	
comp-Z,1,100nm,3.1s						
JMI			ePP	PP	05 39 35.6	+0.8
JMI			eSS	SS	05 57 54.0	+1.6
JMI			eSS	SS	05 56 38.3	-1.7
JETT	Jettan, Norway	140.14 350	ePKPdf	PKPdf	05 36 37.0	-2.1
TRO	Tromsø	140.28 351	ePKPdf	PKPdf	05 36 38.1	-2.1
TRO			ePKPdf	PKPdf	05 36 35.4	-4.8
TRO			IVmB_BB		05 36 45.3	
comp-Z,815nm,2.5s						
TRO			ePP	PP	05 39 38.2	-0.2
TRO			eSS	SS	05 57 59.2	0.0
TRO			IVMs_BB	IVMs_BB	06 36 18.7	
comp-Z,2um,23.1s						
KBD	Kabd	140.71 279	P	PKPdf	05 36 42.9	+0.6
BELG	Belogomoye	140.76 316	ePKIKP	PKPdf	05 36 42.1	+0.6
RAYN	Ar Rayn	140.87 270	ePKPdf	PKPdf	05 36 41.7	-4.2
RAYN	Ar Rayn	140.87 270	IAMS_20	IAMS_20	06 32 41.8	
comp-Z,5um,22.0s						
RAYN	Ar Rayn	140.87 270	P	PKPdf	05 36 43.4	+0.6
RAYN	Ar Rayn	140.87 270	PKIKP	PKPdf	05 36 41.4	-1.4
RAYN	Ar Rayn	140.87 270	PKIKP	PKPdf	05 36 41.6	-1.2
SNR=6.6						
KLMR	Klimovskoe	141.43 331	ePKIKP	PKPdf	05 36 40.2	-2.3
KLMR			SS	SS	05 58 13.6	+0.3
KLMR			SSS	SSS	06 03 30.7	
KLMR			pmx	pmx		
comp-Z,1,145nm,1.4s						
KLMR			MLR	MLR		
comp-Z,9um,22.0s						
MSF	Masseika	141.52 343	PKIKP	PKPdf	05 36 39.7	-2.9
AKT	Akhty	142.16 299	ePKHkp	PKPpre	05 39 47.3	
AKT			ePP	PP	05 42 56.8	
AKT			pmx	pmx		
comp-Z,104nm,1.5s						
MAK	Makhackkala	142.28 301	ePKHkp	PKPpre	05 36 35.9	
MAK			ePPP	PPP	05 42 57.7	
MAK			eSS	SS	05 43 47.6	
MAK			eSSS	SSS	05 58 25.7	+0.9
MAK			pmx	pmx	06 03 45.0	
comp-Z,1,115nm,0.9s						
LOF	Lofoten	142.35 353	ePKPdf	PKPdf	05 36 36.1	-7.9
LOF			IVmB_BB		05 36 44.1	
comp-Z,709nm,5.2s						
LOF			ePP	PP	05 39 50.1	-0.9
LOF			eSS	SS	05 58 24.0	+0.7
LOF			IVMs_BB	IVMs_BB	06 32 14.3	
comp-Z,1um,25.0s						
STEI	Steigen	142.36 352	ePKPdf	PKPdf	05 36 39.4	-4.6
STEI			IVmB_BB		05 36 43.9	
comp-Z,823nm,4.3s						
STEI			ePP	PP	05 39 51.8	+0.8
STEI			eSS	SS	05 58 26.1	+2.8
STEI			IVMs_BB	IVMs_BB	06 37 52.0	
comp-Z,2um,22.4s						
FAUS	Fauske	142.87 352	ePKPdf	PKPdf	05 36 38.0	-6.9
FAUS			IVmB_BB		05 36 45.4	
comp-Z,991nm,4.5s						
FAUS			ePP	PP	05 39 53.7	-0.4
FAUS			eSS	SS	05 58 32.4	+3.2
FAUS			IVMs_BB	IVMs_BB	06 40 28.9	
comp-Z,2um,22.2s						
OUL	Oulu	142.97 343	PKIKP	PKPdf	05 36 41.5	-3.6
VAGH	Vaagaholmen	143.74 353	ePKPdf	PKPbc	05 36 44.1	0.0
VAGH			IVmB_BB		05 36 47.8	
comp-Z,2um,2.7s						
VAGH			ePP	PP	05 39 59.1	-0.2
VAGH			eSS	SS	05 58 45.2	+6.0
KONS	Konsvik	143.97 352	ePKPdf	PKPab	05 36 44.3	+0.1
MOR8	Moi Rana	144.13 351	ePKPdf	PKPab	05 36 44.2	+0.6
MOR8			IVmB_BB		05 36 45.1	
comp-Z,1um,2.6s						
MOR8			ePP	PP	05 40 00.0	-1.0
MOR8			eSS	SS	05 58 45.0	+1.2
MOR8			IVMs_BB	IVMs_BB	06 35 34.6	
comp-Z,2um,24.5s						
STOK	Stokkvaagen	144.15 352	ePKPdf	PKPab	05 36 42.8	-2.1
STOK			IVmB_BB		05 36 46.2	
comp-Z,2um,2.8s						
STOK			ePP	PP	05 40 02.8	+1.0
STOK			eSS	SS	05 58 47.0	+3.0
STOK			IVMs_BB	IVMs_BB	06 30 11.6	
comp-Z,2um,24.9s						
LEIR	Leirfjorden	144.35 352	ePKPdf	PKPab	05 36 43.9	-1.7
LEIR			IVmB_BB		05 36 46.6	
comp-Z,3um,2.7s						
LEIR			ePP	PP	05 40 02.7	-0.3
LEIR			eSS	SS	05 58 50.9	+4.6
GNI	Garni	144.45 297	P	PKPab	05 36 47.0	-0.1
GNI	Garni	144.45 297	PKIKP	PKPab	05 36 46.5	-0.6
GNI	Garni	144.45 297	PKPab	PKPab	05 36 49.4	-1.0
VRH	Novokhopovskoy	144.61 316	ePKIKP	PKPbc	05 36 47.6	+0.4
comp-Z,55nm,0.6s						
MOS	Moscow	144.97 325	i	PKIKP	05 36 46.8	-1.4
MOS			PKPab		05 40 15.3	
comp-Z,3um,4.5s						
MOS			pmx	pmx		
comp-Z,233nm,1.4s						
MOS			pmx	pmx		
comp-N,2um,4.3s						
MOS			MLR	MLR		
comp-E,900nm,4.5s						
MOS			MLR	MLR		
comp-Z,6um,22.0s						
MOS			MLR	MLR		
comp-N,4um,21.0s						
NCK	Nalchik	145.09 303	ePKIKP	PKPbc	05 36 48.2	-0.9
GOF	Gofitskoye	145.26 305	ePKIKP	PKPbc	05 36 48.7	-0.9
KBZ	Khabaz	145.56 303	ePKIKP	PKPdf	05 36 49.6	-0.7
comp-N,46nm,1.1s,baz=54,slow=3,SNR=44						
KBZ	Khabaz	145.56 303	PKP2	PKPdf	05 36 49.1	-1.2
PUL	Pulkovo	145.68 335	ePKIKP	PKPdf	05 36 49.5	-0.5
KIV	Kislovodsk	145.68 303	P	PKPdf	05 36 50.0	-0.7
KIV	Kislovodsk	145.68 303	ePKHkp	PKPpre	05 36 45.1	
KIV			i		05 36 49.7	
KIV			e		05 40 06.6	
KIV			eSS	SS	05 58 55.4	-8.6
KIV			pmx	pmx		
comp-Z,70nm,1.1s						
KIV	Kislovodsk	145.68 303	i	PKPdf	05 36 49.2	-1.5
SNR=77						
SHA1	Shidzhatmaz	145.73 303	ePKIKP	PKPdf	05 36 50.3	-0.6
OBN	Obninsk	145.80 325	P	PKPdf	05 36 49.9	-0.5
OBN	Obninsk	145.80 325	P	PKPdf	05 36 50.2	-0.1
OBN	Obninsk	145.80 325	ePKIKP	PKPdf	05 36 49.4	-0.9
OBN			e		05 40 10.7	
OBN			e		05 43 33.5	
OBN			eSS	SS	05 58 59.5	-4.4
FINES	FINES Array B	145.85 340	ePKIKP	PKPdf	05 36 50.0	-0.3
FINES	FINES Array B	145.85 340	PKPbc	PKPdf	05 36 49.8	-0.5
comp-Z,77nm,0.9s,baz=59,slow=3,SNR=188						
VORR	Voronetz	145.91 318	ePKIKP	PKPdf	05 36 49.1	-1.6

VORR			pmx	pmx		
comp-Z,160nm,0.9s						
NSS	Namsos	146.01 352	ePKPdf	PKPdf	05 36 49.6	-0.8
NSS			IVmB_BB		05 36 52.3	
comp-Z,7um,2.6s						
NSS			IVMs_BB	IVMs_BB	06 31 16.2	
VSR	Storozhevo	146.11 317	ePKIKP	PKPdf	05 36 49.3	-1.7
VSR			pmx	pmx		
comp-Z,100nm,0.9s						
VORD	Divnogorie	146.13 317	ePKIKP	PKPdf	05 36 49.7	-1.3
VORD			pmx	pmx		
comp-Z,110nm,1.0s						
ERBR	Yeremizino-Bor	146.91 307	ePKIKP	PKPdf	05 36 51.8	-0.8
ERBR			i		05 36 55.1	
ERBR			e		05 37 05.8	
comp-Z,228nm,1.6s						
LABN	Labinsk	146.96 305	i	PKIKP	05 36 52.7	0.0
LABN			e		05 37 06.7	
LABN			e		05 40 15.5	
comp-Z,113nm,1.6s						
LABN			e	pmx	pmx	
comp-Z,6um,25.0s						
VYSLR	Vesyoloye	147.66 303	ePKIKP	PKPdf	05 36 54.3	+0.4
SOC	Sochi	147.86 303	ePKIKP	PKPdf	05 36 52.5	-1.7
SOC			ePPP	PPP	05 40 22.4	
SOC			eSS	SS	05 43 44.7	
SOC			pmx	pmx	05 59 20.2	-8.3
comp-Z,100nm,1.4s						
VSU	Vasula	147.91 336	ePKHkp	PKPpre	05 36 51.5	
MOL	Molde	148.35 355	ePKPdf	PKPdf	05 36 55.3	+0.9
MOL			IVmB_BB		05 36 59.4	
comp-Z,3um,3.3s						
DOMB	Dombas	148.74 354	ePKPdf	PKPdf	05 36 55.7	+0.6
DOMB			IVMs_BB	IVMs_BB	06 33 43.2	
comp-Z,2um,18.0s						
AKN	Aaknes	148.78 356	ePKPdf	PKPbc	05 36 59.1	+0.1
AKN			IVmB_BB		05 37 00.9	
comp-Z,5um,2.1s						
AKN			eSKPdf	SKPdf	05 40 24.9	-1.7
AKN			eSS	SS	05 59 37.5	+1.0
AKN			eSS	SS	05 36 55.1	
AKN			PKPpre	PKPpre	05 37 00.8	
AKN			e		05 40 30.8	
comp-Z,81nm,1.3s						
ANN			pmx	pmx		
comp-Z,219nm,1.1s						
ANN			MLR	MLR		
comp-Z,2um,23.0s						
FOO	Flo	149.46 357	ePKPdf	PKPdf	05 36 56.9	+0.7
FOO			ePKPbc	PKPbc	05 37 00.4	-0.3
FOO			IVmB_BB		05 37 05.2	
comp-Z,5um,3.3s						
FOO			ePP	PP	05 40 33.8	+0.7
FOO			eSS	SS	05 59 1.9	+1.8
NB2	NORSAR Subarrat	149.48 351	ePKP	PKPdf	05 36 55.6	-0.8
NB2	NORSAR Subarrat	149.48 351	PKPab	PKPdf	05 36 55.6	-0.8
comp-Z,2um,2.5s,baz=17,slow=2.6						
NOA	NORSAR Array B	149.48 351	PKP	PKPdf	05 36 56.7	+0.4
NOA			PKPbc	PKPbc	05 37 00.4	-0.4
comp-Z,20nm,0.7s,baz=62,slow=1.9,SNR=25						
NC602	NORSAR Array S	149.73 351	ePKPbc	PKPbc	05 37 00.7	-0.7
HYA	Hoyanger	149.83 356	ePKPdf	PKPdf	05 36 57.4	+0.6
HYA			eSS	SS	05 59 52.5	+4.3
HFS	Hagfors	149.97 348	PKP	PKPdf	05 36 57.9	+0.8
comp-Z,41nm,0.6s,baz=101,slow=3.2,SNR=44						
HFS			ePKPbc	PKPbc	05 37 01.4	-0.6
comp-Z,100nm,0.9s,baz=116,slow=3.4,SNR=41						
SUE	Sulen	150.01 357	ePKPbc	PKPbc	05 37 02.2	+0.2
SUE			IVmB_BB		05 37 03.7	
comp-Z,4um,2.3s						
SUE			eSS	SS	05 59 51.4	+1.2
SKAR	Skarslia	150.15 354	ePKPdf	PKPdf	05 36 58.0	+0.5
SKAR			ePKPbc	PKPbc	05 37 02.5	-0.1
SKAR			eSS	SS	05 59 54.8	+2.8
MNK	Minsk	150.24 329	i	PKIKP	05 37 02.4	-0.5
comp-E,71nm,1.0s						
MNK			i	PKIKP	05 37 02.4	-0.5
comp-Z,166nm,0.9s,baz=49						
MNK			i	PKIKP	05 37 02.4	-0.5
MNK			PKP	PKP	05 40 36.6	-1.4
MNK			PKP	PKP	05 43 58.6	
MNK			i	PKP	05 44 01.0	







Table with columns: SALV, Santo Antonio, 4.74 251, P, Pn, 05 57 55.9 -0.7, etc.

MEX 16 05:59:27.2-0.7, 13.85N:93.27W, h14km, 158km, MD4.1, GCG 16 05:59:31.8-2.1, 14.10N:92.93W, h35km, 999km, MD4.3, ML3.4

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

IDC 16 06:07.02.1.3, 0.3164S:177.66W, h0km, mb3.6/2, mbmt3.7/3, ML2.9/1, Error ellipse: s-maj=71.3km, s-min=36.8km, az=118.0, Kermadec Islands region

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

IDC 16 06:10.44.0.1.3, 0.3076S:177.72W, h0km, mb4.4/4, mbmt4.3/5, ML3.9/1, Error ellipse: s-maj=43.7km, s-min=28.6km, az=138.0

NEIC 16 06:10.48.6.1.6, 0.3055S:0.05:177.7W:0.1, h35km, 2km, mb4.4/17, Error ellipse: s-maj=22.0km, s-min=8.1km, az=81.0

IDC 16 06:10.47.0.2.0.6, 30.75S:0.05:177.69W:0.027h2km, n68, +239/82, mb4.5/15.4, Kermadec Islands

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

Table with columns: ARMA, Armidale, 26.38 263, P, Iamb, 06 16 21.0 -0.5, etc.

SJA 16 06:19.12.2.0.7, 30.03S:72.54W, h13km, 12km, ML3.8, MW3.9

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

IDC 16 06:18.21.6.2.8, 0.3098S:177.78W, h0km, mb4.1/3, mbmt4.0/4, ML3.3/1, Error ellipse: s-maj=64.6km, s-min=34.5km, az=117.0

NEIC 16 06:18.29.5.1.2, 30.6S:0.1x178.2W:0.2, h35km, 2km, mb4.1/10, Error ellipse: s-maj=31.2km, s-min=18.3km, az=96.0

IDC 16 06:18.30.0.1.2, 30.5S:0.1x178.2W:0.2, h46km, n23, +67/10, mb4.1/9, Kermadec Islands

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

SJA 16 06:19.12.2.0.7, 30.03S:72.54W, h13km, 12km, ML3.8, MW3.9

GUC 16 06:19.16.9.0.7, 30.06S:71.99W, h35km, 6km, ML3.8, mbmt3.7/6, ML3.7/2, Error ellipse: s-maj=44.3km, s-min=25.7km, az=89.0

IDC 16 06:19.15.6.1.7, 30.06S:0.03:72.06W:0.06, h6km, 10km, n34, +169/52, mb3.8/4, 3C-4D, off coast central Chile

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

Table with columns: G004, El Pedregal, 1.41 124, P, Pn, 06 19 41.7 -0.2, etc.

IDC 16 06:20.18.0.4.8, 30.335S:179.78E, h0km, mb3.8/3, mbmt3.8/3, Error ellipse: s-maj=181.0km, s-min=74.2km, az=160.0, Kermadec Islands region

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

IDC 16 06:27.28.9.3.0, 32.95S:178.52W, h0km, mb3.5/2, mbmt3.5/3, ML3.5/1, Error ellipse: s-maj=72.0km, s-min=36.0km, az=116.0, South of Kermadec Islands

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.

IDC 16 06:30.19.0.0.5, 44.72S:35.57E, h0km, mb4.5/19, mbmt4.5/19, MS4.5/3, Error ellipse: s-maj=19.7km, s-min=13.5km, az=61.0

MOS 16 06:30.19.3.0.9, 44.73S:35.42E, h10km, mb5.0/21, Error ellipse: s-maj=20.5km, s-min=9.7km, az=95.6

NEIC 16 06:30.21.2.1.2, 44.69S:0.07:35.4E:0.2, h10km, 1km, mb5.0/5, Error ellipse: s-maj=20.0km, s-min=11.8km, az=80.0

IDC 16 06:30.20.9.0.3, 44.68S:0.06:35.36E:0.06, h10km, n175, +180/164, mb4.9/72, MS4.7/3, 8C, Prince Edward Islands region

Table with columns: Code, Station Name, A, AZ, Phase ID, Time, Res, etc.



16d 7h

OKTU Okmok Mt. Tuli 3.29 280 Pn 06 38 39.5 +0.2
OKSP Okmok Steeple 3.43 277 Pn 06 38 41.2 0.0

IDC 16 06:38:12.9.7.9, 30.27Sx178.08W, h0km, mb3.4/2,
mbtmp3.4/2, Error ellipse: s-maj=327.8km
s-min=63.6km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B.

IDC 16 06:41:27.3.1.2, 18.23Sx167.75E, h0km, mb4.0/6,
mbtmp4.0/7, ML3.9/1, Error ellipse: s-maj=39.6km
s-min=25.1km az=139.0

NEIC 16 06:41:28.9.0.8, 18.34S:0.04:168.2E:0.2, h28km, 9km,
mb4.2/10, Error ellipse: s-maj=31.4km s-min=5.8km
az=91.0

NOU 16 06:41:30.2, 18.29S:167.65E, h21km, MLv4.5/15,
Vanuatu Islands

ISC 16 06:41:30.1.0.6, 18.34S:0.04:167.81E:0.08, h29km, n37,
r143/35, mb4.2/14, 3C, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like INH Isangel, VLAKA Lakatoro, SANVU Saraoutou, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like DZM Mont Dzumac, KOUNC Koumac, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like CAN Canberra, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MGBR Mount Gambier, WRR Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like WBO Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like AS31 Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like KNRA Kununurra, PETK Petropavlovsk, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like GSPA South Pole Qui, SONM Songoing Array, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like NVAR Niua Arau Bea, ILAR Eielson Array, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like VNA3 Neumayer Olymp, VNA2 Neumayer-Watz, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like VNA1 Neumayer-Stat, FINES FINESS Array B, etc.

IDC 16 06:45:25.2.7.3, 30.52Sx178.06W, h0km, mb3.6/2,
mbtmp3.6/2, Error ellipse: s-maj=304.2km
s-min=58.4km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, H03S2 Juan Fernandez, etc.

NOU 16 06:52:09.7, 39.93S:173.82E, h220km, MLV3.8/19, Off W.
Coast of N. Island, N.Z.

WEL 16 06:52:16.0.9.40, 5.5x17.4E, h205km, 6km, M3.3/18,
ML3.2/8, MLV3.3/18, Error ellipse: s-maj=8.5km
s-min=5.2km az=126.5, confirmed

ISC 16 06:52:07.1.1.7, 39.89S:0.05:173.75E:0.05,
h245km, 10km, n133, r163/147, Off west coast of North
Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like NBEZ Newall Road No, KHEZ Kahui Hut, WRA Warramunga Arr, etc.

2019 JUN

Main table with columns: QRZ, Quartz Range, P, S, Pn, etc. Includes stations like QNZ Nelson, PKVZ Pokaka, TCW Tory Channel, etc.

DJA 16 06:57:01.4.0.9.9, 5.4x11.2E, h30km, 12km, M3.8/13,
mb4.1/1, ML3.6/13, Jawa

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like GMJI Gumukmas, PCJI Pacitan, JAGI Jajag, etc.

GCG 16 06:57:31.4.3.5, 15.11N:94.48W, h36km, 999km, MD4.3,
MEX 16 06:57:34.1.1.0, 15.25N:94.42W, h26km, 23km, MD4.0

ISC 16 06:57:26.4.1.4, 15.26N:0.06:94.44W:0.02, h18km, 5km,
n23, r2513/43, Near coast of Oaxaca

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like PCIG Pucallpa, PCIG Pucallpa, etc.

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Table with columns: HUIG Huatulco, HUIG Huatulco, HUIG Huatulco, etc. Includes stations like HUIG Huatulco, TGIG Toluca, etc.

IDC 16 07:04:08.6.2.1, 32.55S:178.53W, h0km, mb3.7/3,
mbtmp3.7/5, ML3.2/1, Error ellipse: s-maj=50.0km
s-min=37.7km az=67.0, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 16 07:04:49.4.1.1, 33.79S:179.25W, h0km, mb3.7/4,
mbtmp3.7/5, ML3.8/1, Error ellipse: s-maj=38.1km
s-min=28.6km az=80.0

ISC 16 07:04:57.4.1.3, 34.0S:0.1x179.5W:0.2, h53km, n9,
r1548/10, mb3.6/4, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

SJA 16 07:11:42.5.1.0, 28.22S:71.79W, h30km, ML3.7, MW4.1
GC 16 07:11:47.9.0.9, 28.22S:71.22W, h36km, 3km, ML3.7

ISC 16 07:11:45.7.2.0, 28.30S:0.03:71.47W:0.07, h13km, 12km,
n23, r191/47, C-2D, Near coast of central Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like AC04 Llanos de Chal, LCO Las Campanas, G003 Copiapo, etc.









Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Waipiua Caves, Omahuta, TKGZ, etc.

NOU 16 08:59:32.8, 41.15S:172.73E, h104km, MLV3.9/11, South Island, New Zealand
WEL 16 08:59:32.8, 0.9, 41.15S:172.73E, h93km, 6km, M2.5/9, ML2.8/8, MLV2.5/9, Error ellipse: s-maj=6.3km s-min=4.0km az=171.4, confirmed

Main table for 873 section with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Nelson, NZR, NNZ, etc.

IDC 16 09:01:55.2, 1.18, 23S:167.68E, h0km, mb3.8/4, mbtmp3.7/5, ML3.5/1, Error ellipse: s-maj=58.7km s-min=31.7km az=128.0, Vanuatu Islands

0.9nm,0.5s
ILAR Eielson Array 89.71 18 P P 09 14 54.8 0.0
0.9nm,0.7s,baz=234,slow=5.1,SNR=5.5
0.3nm,0.7s

Table for 2019 JUN section, top part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like THIG, RTAL, PATR, etc.

JMA 16 09:13:58.3, 0.1, 42.7N:0.3, 144.9E:0.5, h52km, 1km, MV3.7/37, OFF NEMURU PENINSULA
SKHL 16 09:13:58.9, 0.6, 42.7N:0.1, 144.9E:0.5, h42km, 7km, mb4.6/3
ISC 16 09:13:58.9, 1.8, 42.66N:0.1, 144.9E:0.05, h43km, 15km, n14, c0652/4, Hokkaido region

Table for 2019 JUN section, middle part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AKK, JAK, JKH, etc.

IDC 16 09:18:12.6, 3.0, 31.29S:177.49W, h0km, mb3.8/2, mbtmp3.8/3, ML3.2/1, MS3.3/1, Error ellipse: s-maj=74.9km s-min=46.1km az=127.0, Kermadec Islands region

Table for 2019 JUN section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, ASAR, WRA, etc.

IDC 16 09:19:19.0, 13.0, 30.46S:178.09W, h183km, 141km, mb3.0/2, mbtmp3.6/3, Error ellipse: s-maj=123.3km s-min=55.8km az=177.0, Kermadec Islands

Table for 2019 JUN section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, ASAR, WRA, etc.

IDC 16 09:39:12.5, 9.2, 31.68S:176.61W, h0km, mb3.2/2, mbtmp3.4/3, ML3.4/1, Error ellipse: s-maj=428.7km s-min=63.2km az=158.0, Kermadec Islands region

Table for 2019 JUN section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, ASAR, WRA, etc.

0.2nm,0.3s
FINES FINESS Array B 147.40 338 PKPbc PKPbc 10 01 05.3 -0.7
1.5nm,0.8s,baz=26,slow=5.9,SNR=3.7

HEL 16 09:44:15.6, 0.3, 67.62N:20.95E, h0km, ML1.4, Suspected explosion
IDC 16 09:44:16.1, 2.4, 67.59N:21.25E, h0km, mbtmp2.4/2, ML1.5/2, Error ellipse: s-maj=32.9km s-min=10.7km az=97.0
ISC 16 09:44:13.7, 0.9, 67.58N:0.02, 20.78E:0.04, h0km, n21, c1913/33, Sweden

Table for 16d 9h section, top part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like LANU, SALU, PAJU, etc.

KALU Kalix 2.01 148 PG Pg 09 44 51.7 -0.5
KALU Torio 2.06 135 PG Pb 09 44 52.0 +0.1
TOF TOF 09 45 16.2

Table for 16d 9h section, middle part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TOF, TRO, RNF, etc.

CATAC 16 09:46:44.4, 0.9, 13.1N:5.90W, h16km, 6km, M2.4/12, MLV2.4/12, Error ellipse: s-maj=11.1km s-min=6.7km az=8.0, confirmed

SNET 16 09:46:45.8, 0.5, 13.11N:89.50W, h53km, 11km, ML2.4
GCG 16 09:46:45.8, 0.4, 13.11N:89.61W, h47km, 6km, MD3.8
ISC 16 09:46:44.8, 3.8, 13.0N:0.2, 89.57W:0.09, h43km, n27, c0523/1, El Salvador

Table for 16d 9h section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like LALI, JAYA, JAV, etc.

NEIC 16 09:57:01.0, 1.9, 4.90S:0.08, 151.63E:0.08, h30km, 5km, mb4.3/19, Error ellipse: s-maj=15.1km s-min=5.9km az=137.0
IDC 16 09:57:05.2, 4.5, 4.99S:151.33E, h61km, 38km, mb3.8/10, mbtmp4.2/12, ML3.0/2, MS3.4/2, Error ellipse: s-maj=34.8km s-min=18.2km az=98.0

ISC 16 09:57:01.0, 5.0, 6.49S:0.07, 151.59E:0.09, h35km, n44, c1831/39, mb2.4/17, MS3.4/9, New Britain region

Table for 16d 9h section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like RABL, IABL, MANU, etc.

COEN Coenen Tower 12.21 222 Pn Pn 09 59 53.2 +0.1
CTAO Takas Tower 15.94 199 P P 10 00 46.9 +0.4
GUMO Guam 19.57 340 P P 10 01 26.3 -0.2
GUMO Guam 19.57 340 LR LR 10 09 40.8

Table for 16d 9h section, bottom part with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like EIDS, MTN, WBO, etc.





16d 12h

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like KOTs, MTBS, KST, KXT, KZB, etc.

NNC 16 11:19:33.2.2.5, 44.62N, 82.42E, h0km, mb3.3, mpv3.0, 3C-10, Error ellipse: s-maj=21.3km s-min=20.3km az=34.0, Northern Xinjiang

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like MK31, MAKZ, etc.

TAP 16 11:28:16.7, 24.89N, 122.50E, h13km, ML3.1, D JMA 16 11:28:17.5, 0.2, 25.1N, 122.5E, 0.5, h4km, MD2.77, NW OFF ISHIGAKUJIMA IS

ISC 16 11:28:17.3, 1.2, 24.85N, 0.03, 122.48E, 0.03, h1km, 10km, n51, c046/70, Taiwan region

Large table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like TWB1, EOS2, YJWG, etc.

CATAC 16 11:36:17.5, 0.6, 13.1N, 4.8, 9W, h29km, 3km, M3.1/19, MLV3.1/19, Error ellipse: s-maj=8.9km s-min=3.7km az=20.7, confirmed

2019 JUN

SNET 16 11:36:18.0, 0.9, 13.16N, 89.28W, h50km, 9km, ML3.2 GCG 16 11:36:19.0, 0.6, 13.24N, 89.29W, h52km, 5km, MD3.5 ISC 16 11:36:17.9, 1.8, 13.09N, 0.10, 89.31W, 0.05, h42km, 17km, n56, c036/63, El Salvador

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like LALI, PANCS, LOMA, etc.

IDC 16 12:02:34.0, 1.5, 31.38S, 177.40W, h0km, mb3.7/4, mbmp3.8/5, ML3.1/1, MS3.3/1, Error ellipse: s-maj=35.2km s-min=30.2km az=88.0

ISC 16 12:02:37.5, 1.5, 31.4S, 0.1, 177.4W, 0.2, h26km, n8, c082/8, mb3.9/4, Kermadec Islands region

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like URZ, DZM, STKA, etc.

OSPL 16 12:17:22.8, 0.3, 19.22N, 69.69W, h11km, 4km, ML2.6 SDD 16 12:17:25.0, 1.9, 19.30N, 69.90W, h17km, 10km, MD2.9, ML2.3, MW2.7

ISC 16 12:17:23.8, 1.0, 19.27N, 0.06, 69.85W, 0.05, h19km, 4km, n9, c19/9/14, 7C-2D, Dominican Republic region

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like NADR, LONA, etc.

IDC 16 12:28:14.5, 3.2, 31.17S, 177.46W, h0km, mb3.5/2, mbmp3.6/3, ML2.9/1, Error ellipse: s-maj=75.4km s-min=38.0km az=115.0, Kermadec Islands region

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like URZ, ASAR, WRA, etc.

FINES FINES Array B 146.03 340 PKPbc PKPdf 12 47 54.7 0.0 0.5nm, 0.4s, baz=63, slow=4.1, SNR=4.7

NEIC 16 12:35:47.8, 1.6, 15.15S, 0.09, 174.58W, 0.07, h10km, 1km, mb4.9/51, Error ellipse: s-maj=15.9km s-min=10.8km az=171.0

IDC 16 12:35:50.0, 0.5, 15.59S, 174.67W, h0km, mb4.4/16, mbmp4.3/18, ML4.6/2, MS4.2/49, Error ellipse: s-maj=23.6km s-min=14.2km az=133.0

GCMT 16 12:35:55.8, 0.3, 15.18S, 0.02, 174.51W, 0.01, h13km, 1km, MLV5.0/104, Moment Tensor Solution, s25, c28; s104, c152, Duration: 0 Moment tensor: Scale 1016Nm; 4.8m, 0.2s, 15.15S, Mw=2.48, 17; Mw=1.68, 13; Mw=0.13, 33; Mw=3.79, 13; Mw=0.54, 33; Best double couple: Ms=4.36200x1016 NP1=0.104, 000000, 882, 00000, lambda=2.00000, NP2=0.195, 00000, 888, 00000, lambda=172, 00000, Principal axes: T 4.7510, Plg4, 00000, Azm329, 00000; N -0.7730, Plg8, 00000, Azm210, 00000; P -3.9730, Plg7, 00000, Azm60, 00000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 16 12:35:55.0, 0.3, 15.17S, 0.06, 174.81W, 0.06, h35km, n461, c159/391, mb4.7/48, MS4.4/55, 5C-4D, Tonga Islands

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Time, Res, ISC. Includes stations like AFI, FUTU, NIUE, etc.

HNR Honiara 25.40 281 P P 12 41 19.0 -3.4 LHI Lord Howe Isls 28.54 232 P P 12 41 47.2 -0.3 ARMA Armidale 34.02 239 I Amb I Amb 12 42 37.1 +1.2

TAOE Nuku Hiva Isls 34.51 83 eLR LR 12 41 33.5 H1S2 WAKE ISLAND Hy 38.55 331 T T 13 23 44.1 H1S3 WAKE ISLAND Hy 38.56 331 T T 13 23 44.4 H1S1 WAKE ISLAND Hy 38.57 331 T T 13 23 45.9 H1N3 WAKE ISLAND Hy 39.53 332 T T 13 24 59.4 H1N1 WAKE ISLAND Hy 39.53 332 T T 13 25 03.7 H1N2 WAKE ISLAND Hy 39.54 332 T T 13 25 00.8

TOO Toolangi 41.22 230 P P 12 43 35.9 -0.8 STKA Stephens Creek 42.70 240 P P 12 43 47.5 -1.3 STKA Stephens Creek 42.70 240 P P 12 43 49.4 +0.6

MGFB Mount Gambier 44.96 232 P P 12 44 06.7 -0.2 JAY Jayapura 45.72 282 LR LR 13 01 15.2 WRB Warramunga Arr 48.30 257 P Amb I Amb 12 44 30.3 -3.0 WRB Warramunga Arr 48.30 257 P Amb I Amb 12 44 30.3 -3.0

WBO Warramunga Arr 48.41 257 P P 12 44 31.5 -2.6 WRA Warramunga Arr 48.45 257 P P 12 44 32.8 -1.7 WRA Warramunga Arr 48.45 257 P P 12 44 34.9 +0.5

WRA Warramunga Arr 48.45 257 P P 12 44 31.3 +0.8 WRA comp=Z, 2.1nm, 1.0s, baz=86, slow=3.6, SNR=5.2 LR LR 13 03 44.7

AS31 Alice Springs 48.72 252 P P 12 44 35.4 -1.2 ASAR Alice Springs 48.72 252 P P 12 44 35.3 -1.2 ASAR Alice Springs 48.72 252 P P 12 44 37.2 +0.7

ASAR comp=Z, 5.7nm, 1.0s, baz=84, slow=8.2, SNR=28 P P 12 46 01.2 -0.1 ASAR comp=Z, 1.0nm, 0.8s, baz=100, slow=3.3, SNR=4.1 LR LR 13 03 38.3

GUMO Guam 49.37 304 LR LR 13 02 17.8 FORT Forrest 54.06 243 P Amb I Amb 12 45 15.2 -1.2 FITZ Fitzroy Crossi 56.81 258 LR LR 13 08 26.0

BATI Baumata 60.04 267 LR LR 13 10 38.0 SBA Scott Base 62.84 184 P P 12 46 16.7 -0.1 VNA Vanda 62.94 186 P P 12 46 18.6 +1.2 VNA Vanda 62.94 186 P P 12 46 18.9 +1.5

VNA comp=Z, 2.0nm, 0.9s, baz=346, slow=5.9, SNR=5.1 LR LR 13 07 51.9 VNA comp=Z, 1.10nm, 21.7s, baz=18, slow=3, SNR=4.0 LR LR 13 12 42.1

DAV Davao City (W) 63.21 286 LR LR 13 12 42.1 NWAO Narrogin (SRO) 63.28 241 LR LR 13 12 05.2 MORW Morawa 64.52 245 P P 12 46 28.2 -0.6 KAPI Kappang 65.02 272 LR LR 13 14 46.5

MJAR Matsuhiro Arr 68.30 321 P P 12 46 53.1 +0.4 NIKH Nikolski High 68.59 4 P P 12 46 54.5 +0.5 SHEM Shemya Is, Ala 68.82 353 LR LR 13 10 57.6

CASY Casey 69.56 205 P Amb I Amb 12 46 59.6 -0.4 UNV Unalaska Valle 69.64 5 P P 12 47 01.4 +0.8 FALS False Pass 70.95 7 P P 12 47 09.6 +1.1

CHNA Chernabura Isl 71.44 9 P P 12 47 12.0 +0.5









Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MYKA Terra Mystica, HFS Hagfors, CLL Colim, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like YKA Yellowknife Ar, SCHO Schefferville, GSPA South Pole Qui, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like EVGI Lefkada island, DRAG Drago-Lefkad, ITM Ithomi, etc.

STR 16 13:40:52.0, 1.46°N, 6°14'E, h10km, ML3.8/15, Error ellipse: s-maj=0.0km s-min=0.0km az=88.0, preliminary
ROM 16 13:40:55.0, 0.0, 46:397N, 0:002:12.997E, 0:003, h8km, ML3.1/150, Error ellipse: s-maj=0.2km s-min=0.0km az=217.0
VIE 16 13:40:55.0, 1.46°N, 12:97'E, h3km, 4km, mb2.7/20, ML3.3/20, Error ellipse: s-maj=1.3km s-min=0.8km az=16.0
4 km W of Tolmezzo
LDG 16 13:40:55.0, 2.46°N, 12:97'E, h5km, M3.0/30, Error ellipse: s-maj=4.5km s-min=3.4km az=35.0
PRU 16 13:40:56.8, 46:41N, 12:99E, h14km, Error ellipse: s-maj=0.8km s-min=0.9km az=103.0, h10km, ML3.2/23, Error ellipse: s-maj=1.0km s-min=4.4km az=5.0
ISC 16 13:40:56.0, 8.46:39N, 0:01:12.98E, 0:01, h5km, 4km, n221, a2s12/351, 9C-22D, Northern Italy





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KURSB, BVAR, YKA.

NEIC 16 14:59:16.3z-2.6, 17.5S:0.1x178.6W:0.2, h559km, 11km, mb4.3/15, Error ellipse: s-maj=22.1km s-min=16.5km

IDC 16 14:59:18.5z-2.2, 17.22S:178.90W, h552km, 19km, mb2.9/4, mbtmp3.8/5, Error ellipse: s-maj=143.4km s-min=27.0km

ISC 16 14:59:16.1-0.7, 17.5S:0.1x178.7W:0.1, h550km, n24, a151/24, mb4.1/12, Fiji Islands region

Main station list table for the first section, including stations like MSVF, Nonsavu, FUTE, Niue, etc.

IDC 16 14:59:37.2z-6.8, 30.28S:178.10W, h0km, mb3.4/2, mbtmp3.4/2, Error ellipse: s-maj=276.0km

s-min=59.6km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ASAR, Alice Springs, WRA, etc.

IDC 16 15:22:26.1z-1.7, 30.35S:178.10W, h0km, mb3.7/4, mbtmp3.8/5, ML3.4/1, Error ellipse: s-maj=41.8km

s-min=32.4km az=54.0, Kermadec Islands

ISC 16 15:22:32.6z-1.7, 30.4S:0.2x178.2W:0.3, h46km, n7, a070/7, mb3.7/4, Kermadec Islands

Main station list table for the second section, including stations like URZ, Urewera, STKA, etc.

NOU 16 15:23:38.3, 31.36S:176.35W, h42km, ML4.4/22, Kermadec Islands Region

NEIC 16 15:23:38.9z-1.2, 31.10S:0.09x177.9W:0.2, h6km, 4km, mb4.9/25, Error ellipse: s-maj=20.1km s-min=13.6km

IDC 16 15:23:38.2z-0.6, 31.06S:178.00W, h0km, mb4.4/11, mbtmp4.4/15, ML4.5/4, MS3.7/12, Error ellipse: s-maj=22.0km s-min=17.4km az=85.0

ISC 16 15:23:43.9z-0.4, 31.16S:0.04x177.84W:0.08, h46km, n149, a23/138, mb4.9/29, MS3.7/9, 5C, Kermadec Islands region

Main station list table for the third section, including stations like GLKZ, Green Lake, RAO, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OPRZ, Ohinepanea, URZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ, Urewera, OUZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H03S1, Juan Fernandez, H03S3, etc.

GCG 16 15:30:34.8z-1.4, 17.22N:94.64W, h130km, 19km, MD4.8, ML4.0

NEIC 16 15:30:35.8z-1.4, 17.21N:0.07x94.64W:0.05, h140km, 9km, mb4.5/4, Md3/127(MEX), Error ellipse: s-maj=11.1km

s-min=6.4km az=197.0, MEX 16 15:30:36.9z-0.8, 17.22N:94.65W, h140km, 7km, MD4.4

ISC 16 15:30:35.0z-0.8, 17.22N:0.04x94.65W:0.03, h148km, 7km, n111, a28/26/199, Chiapas

Main station list table for the fourth section, including stations like Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MIHL, Minatitlan, TUIG, etc.





IDC 16 16:18:34.70.7, 6.76N; 72.94W, h154km, mb3.7/12, mbmp4.3/19, Error ellipse: s-maj=10.9km s-min=9.5km az=117.0

NEIC 16 16:18:35.2±1.2, 6.75N; 0.06x72.97W±0.08, h155km, 7km, mb4.2/80, Error ellipse: s-maj=11.2km s-min=9.1km az=96.0

VAO 16 16:18:35.3±0.7, 6.68N; 72.98W, h151km, 7km, mb4.6 RSNC 16 16:18:36.3±0.6, 6.82N; 73.15W, h143km, 1km, M4.4, mb5.2, mb4.9, ML4.1, MLV4.8, Mw(mb)4.6

ISC 16 16:18:34.0±0.5, 6.79N; 0.03x73.05W±0.04, h153km±4km, ±197, ±19/14/225, mb4.2/49, 4C, Northern Colombia

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various seismic stations and their parameters.

Table with columns: VILB, Pz, Az, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists seismic stations and parameters, including VILB Pz, Pz, Az, Op, Phase ID, Time, Res, ISC, h, m, s, ISC.

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists seismic stations and parameters, including SUA, KTH, PPLA, IMAR, B21K, C18K, N14K, BELA, VNA3, VNA2, SNA4, TROLL, GQSA, MKAR, PZH, ASAR, WRA, CMAR, IDC 16 16:19:44.2±1.1, 36.36N; 141.43E, h0km, mb3.6/4, mbmp3.5/5, ML2.5/1, Error ellipse: s-maj=211.4km s-min=67.2km az=150.0, JMA 16 16:19:54.7±0.2, 36.0N; 0.4x140.6E±0.7, h61km, 1km, MV2.7/39, SOUTHERN IBARAKI PREF, ISC 16 16:19:54.7±1.1, 36.06N; 0.05x140.72E±0.08, h62km±6km, n20, ±0.83/26, mb3.6/4, Near east coast of eastern Honshu, MAJO, JGF, INU, SONM, MKAR, KURBB, BVAR, IDC 16 16:41:29.7±0.7, 30.65S; 177.50W, h0km, mb4.2/6, mbmp4.2/6, MS3.8/7, Error ellipse: s-maj=28.9km s-min=25.6km az=150.0, NEIC 16 16:41:32.1±1.6, 30.7S; 0.1x177.4W±0.1, h9km±4km, mb4.6/20, Error ellipse: s-maj=18.5km s-min=14.2km az=70.0, ISC 16 16:41:35.0±0.5, 30.7S; 0.1x177.4W±0.1, h33km±51, ±1809/51, mb4.5/16, MS3.7/5, 4C, Kermadec Islands, RAO, URZ, TUWZ, KHZ, DZM, RAR, ARMA, EIDS, PPTF, CTAO, STKA, STKA, ARMA, BBOO, AS31, ASAR, ASAR, ASAR, ASAR, WRA, WRA, WRA, WBO, WBO, FORT





16d 17h

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like PFO Pinyon Flats O, PFO Pinyon Flats O, 352A Blakely, etc.

2019 JUN

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like ELK Boulder Array, PD31 Pinedale Array, PDAR Pinedale Array, etc.

888

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like G04A Mulino, EPLO Experimental L, MACC Macarena, Meta, etc.

DLBC	Dease Lake	44.90 339	LR	17 54 02.5
DLBC	Dease Lake	44.90 339	P	17 33 31.6 +1.0
DLBC	Schefferville	44.96 28	P	17 33 27.3 -3.8
SCHO	comp-Z,12nm,1.0s,baz=227,slow=5.3,SNR=6.5		PcP	17 35 11.4 +0.1
SCHO	comp-Z,142nm,21.0s,baz=230,slow=37		LR	17 52 57.8
S32K	Killsnoo	45.83 336	P	17 33 38.2 +0.4
WTLY	Watson Lake, Y	45.83 342	P	17 33 38.6 +0.7
MACA	Manacapur-AM	45.84 114	eP	17 33 38.7 +0.2
SIT	Sitka	45.84 335	P	17 33 38.4 +0.4
BLKN	Baker Lake	45.92 4	P	17 33 36.4 -2.1
R33M	Jennings River	45.95 340	Iamb	17 33 40.6
R33M	Jennings River	45.95 340	P	17 33 39.8 +0.8
Q32M	Nakina River	46.06 339	P	17 33 40.7 +0.7
KUO	Kuujuaaa	46.50 24	P	17 33 42.3 -0.7
TAOE	Nuku Hiva Iala	46.62 238	eLR	17 46 58.5
S31K	Pelican	46.82 336	P	17 33 40.6 +0.4
TGTN	Hyland Airport	46.83 343	P	17 33 46.4 +0.7
P32M	Atlin	47.03 338	Iamb	17 33 48.6
P32M	Atlin	47.03 338	P	17 33 47.7 +0.3
P33M	Teslin, Yukon	47.19 339	P	17 33 48.9 +0.3
SKAG	Skagway	47.51 337	P	17 33 51.5 +0.6
PLBC	Pleasant Camp	47.89 337	P	17 33 54.4 +0.4
LPAZ	La Paz	47.90 134	P	17 33 55.7 +0.5
LPAZ	La Paz	47.90 134	Iamb	17 33 57.5
LPAZ	La Paz	47.90 134	P	17 33 56.0 +0.7
LPAZ	comp-Z,3.8nm,0.7s,baz=359,slow=5.4,SNR=2.1		PcP	17 35 24.0 +1.0
LPAZ	comp-Z,200nm,21.1s,baz=304,slow=34		LR	17 52 30.2
LPAZ	La Paz	47.90 134	eP	17 33 55.7 +0.5
LPAZ	La Paz	47.90 134	eP	17 33 56.3 +1.1
LPAZ	La Paz	47.90 134	PcP	17 35 24.8 +1.8
PB18	Visivri	47.93 137	P	17 33 57.3 +2.0
N32M	Quiet Lake	47.98 340	P	17 33 55.2 +0.5
WHY	Whitese	48.21 339	P	17 33 56.8 +0.3
PB16	IPOC Station P	48.45 137	Iamb	17 34 02.8
P29M	Windy Craggy	48.52 337	Iamb	17 34 00.5
P29M	Windy Craggy	48.52 337	P	17 33 59.5 +0.6
MMPY	Sheldon Lake	48.55 342	P	17 34 00.2 +1.2
P30M	Million Dollar	48.57 337	P	17 33 59.9 +0.6
O30N	Mendenhall	48.71 338	Iamb	17 34 01.9
O30N	Mendenhall	48.71 338	P	17 34 00.9 +0.7
FARO	Faro, Yukon	48.87 341	Iamb	17 34 02.8
FARO	Faro, Yukon	48.87 341	P	17 34 02.4 +0.9
N31M	Braeburn, Yuko	49.11 339	P	17 34 04.0 +0.7
M31M	Drury Creek, Y	49.18 340	Iamb	17 34 05.4
M31M	Drury Creek, Y	49.18 340	P	17 34 04.5 +0.6
PNL	Peninsula	49.18 336	P	17 34 04.4 +0.4
HYT	Haines Junctio	49.25 338	Iamb	17 34 06.6
HYT	Haines Junctio	49.25 338	P	17 34 04.8 +0.3
O29M	Mount Kennedy	49.29 337	Iamb	17 34 06.3
O29M	Mount Kennedy	49.29 337	P	17 34 05.4 +0.6
N30M	Aishikik Lake	49.54 339	Iamb	17 34 08.6
N30M	Aishikik Lake	49.54 339	P	17 34 07.6 +1.0
YUK6	Outpost Mounta	49.64 338	P	17 34 07.9 +0.3
MPGF	Montagnes des	49.74 99	P	17 34 09.6 +0.9
MDP	Montagnes des	49.74 99	LR	17 55 16.1
PINM	Pinnacle	49.79 336	P	17 34 09.0 +0.4
PB08	IPOC Station P	50.01 139	P	17 34 11.0 -0.1
YUK4	Talbot Arm	50.01 338	P	17 34 11.5 +1.1
O28M	Mount Upton	50.20 337	P	17 34 13.0 +1.1
TABL	Table Mountain	50.35 336	Iamb	17 34 14.8
YUK8	Steele Glacier	50.37 337	P	17 34 14.3 +1.1
PB01	IPOC Station P	50.47 140	P	17 34 15.4 +1.2
FRB	Frisher Bay	50.51 18	LR	17 57 23.3
AIN	Ainahou	50.60 280	P	17 34 17.0 +1.5
POHA	Pohakuloa	50.62 281	P	17 34 17.8 +2.2
POHA			pP	17 34 33.2 +0.5
POHA			sP	17 34 40.0 -0.2
MAYO	Mayo, Yukon	50.67 341	P	17 34 16.1 +1.0
M29M	Somme Creek	50.69 339	P	17 34 16.1 +0.7
M29M	Somme Creek	50.69 339	Iamb	17 34 17.2
M29M	Somme Creek	50.69 339	P	17 34 16.3 +0.9
ITTB	Itaituba	50.74 112	eP	17 34 16.5 +0.1
CTG5	Chitina Glacie	50.75 336	Iamb	17 34 35.1
CTG	Chitina Glacie	50.76 336	P	17 34 16.9 +1.0
GRNC	Granite Creek	50.77 336	Iamb	17 34 18.0
BARN	Barnard Glacie	50.94 336	Iamb	17 34 20.3
YUK3	Moose Creek	50.95 338	P	17 34 18.0 +0.5
L29M	L29M	51.03 340	P	17 34 18.4 +0.5
L29M	L29M	51.03 340	P	17 34 18.6 +0.8
TGL	Tana Glacier	51.04 336	Iamb	17 34 21.1
CRQE	Cirque	51.31 335	P	17 34 20.9 +0.8
K29M	Barlow Dome	51.35 341	P	17 34 20.8 +0.4
BVCY	Beaver Creek	51.51 338	P	17 34 21.9 +0.5
J30M	Hart River	51.52 342	Iamb	17 34 23.3
J30M	Hart River	51.52 342	P	17 34 21.9 +0.3
VILB	Wilhena	51.57 124	eP	17 34 23.0 +0.4
MCARA	McCarthy VSAT	51.66 336	Iamb	17 34 23.2
MCARA	McCarthy VSAT	51.66 336	P	17 34 23.4 +0.9
VRDI	Verde Repeater	51.73 336	Iamb	17 34 24.6

M27K	Edge Creek, AK	51.83 338	Iamb	17 34 25.7
M27K	Edge Creek, AK	51.83 338	P	17 34 24.6 +0.6
H31M	Peel River	51.87 344	Iamb	17 35 40.3
H31M	Peel River	51.87 344	P	17 34 24.0 0.0
GLB	Gilahina Butte	52.00 336	Iamb	17 34 26.9
I30M	Mount Dempster	52.00 342	Iamb	17 34 26.1
I30M	Mount Dempster	52.00 342	P	17 34 25.3 +0.1
BMRM	Bremner River	52.03 335	Iamb	17 34 27.3
BMRM	Bremner River	52.03 335	P	17 34 26.3 +0.9
DAWY	Dawson	52.10 340	Iamb	17 34 27.4
DAWY	Dawson	52.10 340	P	17 34 25.8 -0.1
BCAR	Beaver Creek A	52.25 338	P	17 34 26.9 -0.1
EYAK	Cordova Ski Ar	52.26 334	Iamb	17 34 29.0
EYAK	Cordova Ski Ar	52.26 334	P	17 34 28.1 +1.1
L27K	Bear Creek,	52.26 338	Iamb	17 34 28.5
L27K	Beaver Creek,	52.26 338	P	17 34 27.7 +0.7
M26K	Nabesna, AK	52.27 337	Iamb	17 34 28.7
M26K	Nabesna, AK	52.27 337	P	17 34 27.9 +0.7
ILON	Ilgoolik, Nuna	52.30 9	P	17 34 25.4 -1.7
ILON			Iamb	17 34 26.2
NPGB	Novo Progresso	52.36 115	eP	17 34 27.6 -0.8
N25K	Chitina, Valde	52.40 336	Iamb	17 34 30.2
N25K	Chitina, Valde	52.40 336	P	17 34 28.8 +0.7
DIV	Divide	52.59 335	Iamb	17 34 31.2
C36M	Paulatuk	52.64 350	P	17 34 28.7 -1.0
C36M	Paulatuk	52.64 350	Iamb	17 34 29.7
C36M	Paulatuk	52.64 350	P	17 34 29.1 -0.5
P23K	Montague Islan	52.66 333	P	17 34 30.2 +0.3
I29M	Ogilvie Camp,	52.67 342	P	17 34 29.5 -0.5
FID	Port Fidalg	52.67 334	Iamb	17 34 30.4
KIP	Kippapa	52.70 283	P	17 34 33.4 +2.6
G31M	Satah River	52.71 345	P	17 34 29.9 -0.3
SIV	San Ignacio	52.75 128	P	17 34 31.6 +0.4
SIV	comp-Z,33nm,1.0s,baz=294,slow=7.1,SNR=122		PcP	17 35 41.2 +1.0
L26K	Log Cabin Wild	52.78 338	Iamb	17 34 32.3
L26K	Log Cabin Wild	52.78 338	P	17 34 31.2 +0.3
KLU	Klutina	52.86 335	Iamb	17 34 41.1
KLU	Klutina	52.86 335	P	17 34 32.1 +0.6
MENT	Mentasta	52.86 337	Iamb	17 34 32.8
EPYK	Eagle Plains	52.94 343	Iamb	17 34 32.3
EPYK	Eagle Plains	52.94 343	P	17 34 31.9 -0.1
K27K	Chicken	52.97 339	P	17 34 33.1 +0.9
F31M	Tsigienthic	52.98 345	Iamb	17 34 32.1
F31M	Tsigienthic	52.98 345	P	17 34 31.6 -0.6
GLI	Glacier Island	52.99 334	P	17 34 32.4 0.0
HARP	HARP	53.08 336	P	17 34 33.3 +0.3
I28M	Miner Creek	53.22 341	P	17 34 33.5 -0.7
G30M	Tach Zraii Jn	53.26 344	P	17 34 34.0 -0.4
H29M	Whitestone	53.30 342	Iamb	17 34 35.4
H29M	Whitestone	53.30 342	P	17 34 34.3 -0.2
M24K	Tolsona, Glenn	53.30 336	P	17 34 35.2 +0.5
DOT	Dot Lake	53.42 338	Iamb	17 34 37.0
PWL	Port Wells	53.50 334	P	17 34 36.2 +0.1
PAX	Paxson	53.53 337	Iamb	17 34 37.5
PAX	Paxson	53.53 337	P	17 34 36.6 +0.2
PDRB	Porto dos Gac	53.59 120	eP	17 34 36.4 -1.0
SCRK	Sand Creek	53.59 338	Iamb	17 34 38.5
SCRK	Sand Creek	53.59 338	P	17 34 37.3 +0.4
SEW	Seward	53.60 333	P	17 34 37.0 +0.2
SCM	Sheep Creek Mo	53.60 335	Iamb	17 34 39.2
SCM	Sheep Creek Mo	53.60 335	P	17 34 37.1 +0.1
INK	Inuvik	53.61 346	LR	17 59 21.3
INK	Inuvik	53.61 346	P	17 34 36.2 -0.6
F30M	Barrier River	53.62 345	P	17 34 36.6 -0.3
G29M	Pine Creek	53.63 343	Iamb	17 34 37.0 +1.0
G29M	Pine Creek	53.63 343	P	17 34 37.3 -0.2
M23K	Glacier View	53.74 335	P	17 34 38.3 +0.4
RIDG	Independent Ri	53.75 338	P	17 34 38.6 +0.5
J26L	Joseph Creek	53.77 339	P	17 34 39.0 +0.8
KNK	Knik Glacier	53.84 334	Iamb	17 34 39.4
KNK	Knik Glacier	53.84 334	P	17 34 38.7 +0.1
I27K	Kandik River	53.84 341	P	17 34 38.3 -0.3
BBSD	Serra de San D	53.85 129	eP	17 34 38.9 -0.4
PTLB	Pontes e Lacer	53.88 126	eP	17 34 39.5 0.0
CLDB	Colider	53.96 119	eP	17 34 39.8 -0.3
KDAK	Kodiak Island	53.99 329	P	17 34 40.0 +0.3
KDAK	Kodiak Island	53.99 329	LR	17 58 05.4
KDAK	Kodiak Island	53.99 329	Iamb	17 34 40.1 +0.3
KDAK	Kodiak Island	53.99 329	pmax	
KDAK	Kodiak Island	53.99 329	P	17 34 40.0 +0.3
KDAK	Kodiak Island	53.99 329	P	17 34 40.2 +0.5
SML	Sawmill	53.99 335	Iamb	17 34 40.9
SML	Sawmill	53.99 335	P	17 34 39.7 -0.1
BRSE	Bradley Lake S	53.99 332	P	17 34 40.0 +0.2
OHAK	Old Harbor	54.10 328	P	17 34 41.1 +0.5
K24K	Donnelly Dome	54.12 338	P	17 34 41.1 +0.4
I26K	Coal Creek Mine	54.14 340	Iamb	17 34 39.8 -1.0
I26K	Coal Creek Mine	54.14 340	P	17 34 40.7 -0.1
WAT6	Susitna Watana	54.17 336	P	17 34 41.5 +0.3

RC01	Rabbit Creek A	54.21 334	P	17 34 41.4 +0.1
PMR	Palmer	54.21 334	Iamb	17 34 42.3
PMR	Palmer	54.21 334	P	17 34 41.2 0.0
H27K	Steamboat Moun	54.23 341	Iamb	17 34 43.2
H27K	Steamboat Moun	54.23 341	P	17 34 41.3 -0.2
Q20K	Shuyak Island	54.25 330	P	17 34 41.9 +0.4
SII	Sitka Island	54.30 327	P	17 34 42.4 +0.3
DHY	Denali Highway	54.30 336	Iamb	17 34 43.0
DHY	Denali Highway	54.30 336	P	17 34 42.0 -0.2
HOM	Homer	54.36 331	P	17 34 42.6 +0.2
J25K	Salcha River,	54.46 339	Iamb	17 34 45.7
J25K	Salcha River,	54.46 339	P	17 34 43.2 0.0
WAT1	Susitna Watana	54.62 336	P	17 34 44.3 0.0
G27K	Doyon Strip	54.66 342	Iamb	17 34 45.1
G27K	Doyon Strip	54.66 342	P	17 34 44.3 -0.2
M22K	Willow	54.70 334	P	17 34 44.9 +0.1
F28M	Old Crow	54.70 343	P	17 34 44.8 0.0
E29M	Blow River	54.73 344	Iamb	17 34 45.8
E29M	Blow River	54.73 344	P	17 34 44.8 -0.2
CHIR	Chirikof Islan	54.78 326	P	17 34 46.0 +0.5
SUA	Susitna One	54.82 334	P	17 34 46.3 +0.4
R18K	Karluk	54.82 328	P	17 34 45.9 +0.2
AC06	Mina Casimiro	54.85 145	Iamb	17 34 50.5
HDA	Harding Lake	54.90 338	P	17 34 46.0 -0.2
Q19K	Cap Douglas,	54.97 330	P	17 34 46.8 -0.1
O20K	Slope Mountain	54.99 332	P	17 34 47.3 +0.2
PRP	Porcupine Dome	55.05 339	P	17 34 47.8 +0.2
IL31		55.08 338	Iamb	17 34 48.4
ILAR	Eielson Ar	55.08 338	P	17 34 47.2 -0.4
ILAR	comp-Z,15nm,0.8s,baz=145,slow=6.1,SNR=172		PcP	17 35 48.9 +0.6
ILAR	comp-Z,3.3nm,0.6s,baz=157,slow=2.3,SNR=11		ScP	17 39 42.0 +0.6
ILAR	comp-Z,0.5nm,0.9s,baz=73,slow=3.1,SNR=2.5		LR	17 59 27.4</

Table with columns: Station Name, Frequency, Power, Direction, and other parameters. Includes stations like I23K Minto, BPAW Bear Paw Mtn, RES Resolute Bay, etc.

Table with columns: Station Name, Frequency, Power, Direction, and other parameters. Includes stations like PPT2 comp=Z,191nm,24.8s, C27K Ikkilik River, J17K VABM Dome, etc.

Table with columns: Station Name, Frequency, Power, Direction, and other parameters. Includes stations like BDFB comp=Z,228nm,0.9s, BDFB Brasilia, BDFB comp=Z,21nm,0.8s, etc.



Table with columns: Station Name, Azimuth, Elevation, Frequency, SNR, and other technical details. Includes stations like PETK, EVO, PCBR, MESJ, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, SNR, and other technical details. Includes stations like UBR, TANN, MANZ, DAVOX, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, SNR, and other technical details. Includes stations like MKAR, NJ2, WMO, etc.



Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like CELP Cerrillos, OBIP Obispo Ponce, CRPR Cabo Rojo, etc.

IDC 16 19:01:38.4:1.4, 34.07S:178.27W, h0km, mb3.8/4, mbtmp3.7/5, ML3.4/1, Error ellipse: s-maj=38.4km s-min=30.6km az=131.0

ISC 16 19:01:43.8:1.1, 34.1S:0.2:178.3W:0.2, h37km, n7, c078/8, mb3.7/4, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 16 19:06:37.7:0.8, 30.99S:177.79W, h0km, mb4.1/6, mbtmp4.1/6, MS3.3/2, Error ellipse: s-maj=30.0km s-min=27.5km az=67.0

ISC 16 19:06:44.6:0.9, 31.2S:0.1:178.0W:0.2, h46km, n25, c115/17, mb4.1/6, Kermadec Islands region

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like URZ Urewera, RPZ Rata Peaks, DZM Mont Dzumac, STKA Stephens Creek, etc.

GCG 16 19:08:55.1:1.0, 14.33N:91.75W, h64km, 9km, MD4.0, ML3.8

MEX 16 19:08:55.0:0.8, 14.12N:92.08W, h12km, 6.2km, MD4.0, CATAC 16 19:08:56.0:0.8, 14.1N:92.9W, h16km, 3km, M3.4/7, MLV3.4/7, Error ellipse: s-maj=10.2km s-min=5.2km az=41.1, confirmed

ISC 16 19:08:47.5:1.8, 13.83N:0.07:92.04W:0.06, h26km, 14km, n33, c29/51, Off coast of Chiapas

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like RTAL Retalhuleu, STGO El Palmar, THG THG, etc.

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like NUBE Las Nubes, SLOZ Alcaldia de Sa, LLOAL Lomas de Alarc, etc.

ISC 16 19:14:40.6:2.0, 6.28S:145.20E, h0km, mb3.5/2, mbtmp3.5/4, ML3.6/1, Error ellipse: s-maj=49.2km s-min=27.0km az=70.0, New Guinea

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like PMG Port Moresby, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 16 19:22:29.4:1.2, 2.38N:126.99E, h0km, mb3.5/6, mbtmp3.6/7, ML3.9/1, Error ellipse: s-maj=62.1km s-min=18.6km az=66.0

ISC 16 19:22:30.1:2.2, 5N:0.2:127.3E:0.2, h64km, n7, c083/7, mb3.5/5, Northern Molucca Sea

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like JAY Jayapura, FITZ Fitzroy Crossi, WRA Warramunga Arr, etc.

IDC 16 19:25:24.3:0.6, 31.08S:177.72W, h0km, mb4.3/9, mbtmp4.2/10, ML3.2/1, c017/7, Error ellipse: s-maj=25.6km s-min=21.4km az=168.0

NEIC 16 19:25:27.0:1.3, 31.0S:0.1:177.7W:0.2, h10km, 1km, mb4.8/13, Error ellipse: s-maj=30.3km s-min=18.5km az=82.0

ISC 16 19:25:29.2:0.6, 31.21S:0.05:177.8W:0.1, h35km, n90, c202/96, mb4.6/17, MS4.0/15, 4C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, RIZ Raoul Island, etc.

ISC 16 19:27:48.7:4.4, 19.16N:152.95W, h10km, 10km, MD3.5/2, CATAC 16 19:27:49.0:4.4, 19.16N:152.95W, h10km, 10km, MD3.5/2, MLV3.4/7, Error ellipse: s-maj=13.1km s-min=5.8km az=196.0

ISC 16 19:27:54.2:1.9, 09N:64.31W, h59km, 12km, MD3.5/20, RSPR 16 19:27:54.2:1.9, 09N:64.31W, h59km, 12km, MD3.5/20

ISC 16 19:27:53.7:0.8, 19.06N:0.07:64.29W:0.03, h42km, n101, c1905/110, 11C-12D, Virgin Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like URZ Urewera, URZ Urewera, OUZ Omahau, etc.

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like STKA, BBOO Buckleboe, PMG Port Moresby, etc.

ISC 16 19:27:48.7:4.4, 19.16N:152.95W, h10km, 10km, MD3.5/2, CATAC 16 19:27:49.0:4.4, 19.16N:152.95W, h10km, 10km, MD3.5/2, MLV3.4/7, Error ellipse: s-maj=13.1km s-min=5.8km az=196.0

ISC 16 19:27:50.5:1.9, 29.23N:150.33W, h33km, 11km, MD3.5/20, TRN 16 19:27:50.5:1.9, 29.23N:150.33W, h33km, 11km, MD3.5/20

ISC 16 19:27:52.7:1.2, 19.09N:0.07:64.29W:0.04, h35km, 2km, mb3.9/1, ML3.9/40, Mds3.5/20(RSPR), Error ellipse: s-maj=13.1km s-min=5.8km az=196.0

ISC 16 19:27:54.2:1.9, 09N:64.31W, h59km, 12km, MD3.5/20, RSPR 16 19:27:54.2:1.9, 09N:64.31W, h59km, 12km, MD3.5/20

ISC 16 19:27:53.7:0.8, 19.06N:0.07:64.29W:0.03, h42km, n101, c1905/110, 11C-12D, Virgin Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, Time, Res, ISC. Includes stations like SMRT St. Maarten, SMRT St. Maarten, SMRT St. Maarten, etc.



Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like NORESS Array S, HFS Hagfors, FIAO FINESS Array S, etc.

1DC 16:20:13:51.0:0.4, 10:17S:119:99E, h0km, mb4.8/24, mtmP4.8/27, ML4.7/3, MS4.3/33, Error ellipse: s-maj=15.5km s-min=10.6km az=62.0

ISC 16:20:13:56.6:0.5, 10:31S:0:03:120:06E:0.04, h41km, 2km, 18C-2D, Sumba region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like BANI Baing, Sumba, WSI Waingapu, etc.

Main table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like LUWI Luwuk, YOGI Yogyakarta, SMRI Semarang, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like MTSU Mount Surprise, GSI Gunungsitoli, BBOO Buclelebo, etc.

16d 20h

Table with columns: Station Name, Frequency, Band, Mode, Power, SNR, Azimuth, Elevation, and other technical details. Includes stations like LuoYang, XAN, DZM, LSA, MAJO, etc.

2019 JUN

Table with columns: Station Name, Frequency, Band, Mode, Power, SNR, Azimuth, Elevation, and other technical details. Includes stations like SONM, KLR, YSS, HEH, WMO, ZAK, etc.

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Table with columns: Station Name, Frequency, Band, Mode, Power, SNR, Azimuth, Elevation, and other technical details. Includes stations like VVDA, KURBB, KURK, ZALV, PETK, SBA, etc.





Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like B20K Meade River, G19K Purcell Mouna, K17K Iditarod, F19K Shalercukik Mo, H17K Honhosa River, H18K VABM Dome, C19K Lookout Ridge.

NOU 16:20:24.25.3,34.88S:179.52E,h274km,MLV4.6/8,South of Kermadec Islands
WEL 16:20:24.48.5.1,0.36'S:12.17'7E:1.0,h15km,18km, M3.9/18,ML4.3/18,MLV3.9/18,Error ellipse: s-maj=18.1km s-min=7.3km az=37.5,confirmed
ISC 16:20:24.39.4.3,35.8S:0.1x178.8E:0.1,h215km,13km,n95,+c205/17,Off east coast of North Island

Main station list table for the first section, including stations like MXZ Matakaoa Point, WNGZ Waiomatatini S, HAZ Te Kaha, PKGZ Pakihiroa, PUKZ Puketiti, RUGZ Raukumara Rang, TWGZ Tauwhareparea, KUZ Kuaotunu, CHNZ Chinapeana, MWZ Matawhiri, MWZ Carnagh Statio, CNZGZ Te Karaka, TKGZ Te Karaka, URZ Urewera, RAGZ Rawiri, KARZ Kaharoa, KMRZ Kaimai, WIAZ Waiheke Island, MUGZ Murupara, HGLZ Highlands Stat, RTZ Ruatahuna, MKAZ Moumakai, SNGZ Shannon Statio, PRGZ Paritu Road, MBZ Motutapu North, KNZ Kokohu, ALRZ Allen Road, RAHZ Arahui, MTHZ Maungataniwha, MHGZ Mahia Peninsul, WHHZ Waihua, MRHZ Matea Rd, KUTZ Kaahu Road, TLZ Tolley Road, MHZ Maunani, ARHZ Aropoanui, WATZ Wairara, BKZ Black Stump Fm, BKZ Black Stump Fm, RAHZ Rangitikeia, RITZ Rihia Road, MCHZ McNeill Hill, KWHZ Kaweka Forest, KWHZ Cape Kidnapper, CKHZ Te Maari, ETVZ East Tongariro, HIZ Haurangi, WTVZ West Tongariro, NVVZ North Ngauruhoe, OTVZ Oturere, TWVZ Taureua, NGHZ Ngauruhoe, COVZ Chateau Observ, OUZ Omahuta, KRHZ Kereru, FVWZ Far West T-bar, WHVZ Whangaehu Hut, MAVZ Matarangi, MOVZ Moawhango, WNVZ Waihanua, TRVZ Turoa, PKVZ Pokaka, PXZ Pawanui, VRZ Veira Road, WPKZ Waipukurua, PRVZ Porangahua, TSZ Takapari Road, WAZ Wanganui, ANWZ Angora Road, NEZ North Egmont, PRVZ Port Road, BFZ Birch Farm, BWZ Birch Farm, TIWZ Tintock, MRZ Mangatoinaka R, OGWZ Otaki Gorge, KIW Kapiti Island, MTW Mount Morrison, TRVZ Traveller, PAWZ Parauwi Farm, MSWZ Moikau Station, CHWZ Chiville Isia, SNVZ South Karori, BHW Baring Head, PLWZ Palliser, TCWZ Tory Channel, TUWZ Tuamarina, GRVZ Quartz Range, QRZ Quartz Range, MRNZ Matariki Terra, THZ Topohue, KHZ Kahutara, KHZ Kahutara, GVZ Greta Valley S.

ISC 16:20:26.13.0.0.8,2.39N:126.84E,h0km,mb3.8/1, mbtmp3.9/11,Error ellipse: s-maj=43.2km s-min=14.1km az=72.0
DJA 16:20:26.18.4.0.2.2,N:2.12'E:1.0,h10km,M4.2/12,mb4.4/7,MLV4.2/12
ISC 16:20:26.20.2.0.7,2.47N:0.06:126.98E:0.08,h53km,n22,+c117/26,mb3.8/10,Northern Tonga Sea

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like NNTI Ternate, NNTI Sangihe, SSGI Sangihe, SSGI Sangihe.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like KMSI Cibinong, MRSI Marisa, LUWI Luwuk, NAMI Namlea, FAKI Fak Fak, TTST Tana Toraja, BBSI Bau Bau, SPSI Sidrap Palu, BNSI Bone, FITZ Fitzroy Crossi, WRA Warramunga Arr, ASAR Alice Springs, CMAR Chiang Mai Arr, KSRZ Korea Array, MJAR Matsushiro Arr, STKA Stephens Creek, SONM Songoing Array, MKAR Makanchi Array, KURB Kurchatov Arr, BVAR Borovoye Array.

GCG 16:20:38.39.5.1.4,15.68N:92.67W,h179km,19km,MD3.8 MEX 16:20:38.41.1.0.7,15.73N:92.55W,h181km,7km,MD4.1 ISC 16:20:38.98.1.8,15.58N:0.07:92.62W:0.07,h160km,11km,n30,+c277/49,Mexico-Guatemala border region

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like PAVE Pavencul, PCIG Patate, PATR El Naranjo, THIG Thig, CHIG Comitan, TGIG Tgig, TGIG Tgig, STGB El Palmar, Qui, STGO El Palmar, Qui, HSTG Huatucul, VHO Vista Hermosa, PEIG Puerto Escondido, YOIG Yosondua, TOIG Tolaxpan, TOIG Tlaxiaco, TPIG Tehuacan, PNIG Pinotepa, HLIG Huajuapán de L, FTIG Ferris de T, MGIG Malinaltepec, TLIG Tlapa, CRUZ Cruz Grande, CXLU Cruz Grande, PAIG Popocatepetl, DMG Los Arroyos, YAIG Yautepec, MEIG Mezcala, PLIG Planitillo, CAIG El Cayaco, ZIIG Zihuatanajo.

ISC 16:20:39.10.2.7.8,30.27S:178.08W,h0km,mb3.2/2, s-mtmp3.2/2,Error ellipse: s-maj=329.0km s-min=1.9km az=155.0,Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, FINES FINES Array B.

ISC 16:20:42.50.7.8.1,31.16S:177.71W,h0km,mb3.3/2, mbtmp3.3/2,Error ellipse: s-maj=347.2km s-min=65.4km az=157.0,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, FINES FINES Array B.

CATAC 16:20:45.53.8.0.8,12.16N:87.7W,h123km,5km,M2.3/8,MLV2.3/8,Error ellipse: s-maj=14.1km s-min=6.9km az=34.3,confirmed,Nicaragua

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like COPS Copalpete, SAPS Ciudad Sandino, SAPS Ciudad Sandino, MOMM Momotombo, MOMM El Cardon, MOMM Cerro Negro, CANS Cerro Negro, CANS AI N del Volca, NANN Nandasmo, NANN Nandasmo, PKGN Cerro Pekin.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like PKGN San Cristobal, CRIN San Cristobal, BOAB BOACO BROADBAN, BOAB BOACO BROADBAN, MATN Matagalpa.

IDC 16:20:54.4.6.2.1,14.34S:167.30E,h163km,17km, mb3.7/10,mbtmp4.1/11,Error ellipse: s-maj=24.7km s-min=16.9km az=108.0
ISC 16:20:54.47.5.0.7,14.32S:0.008:167.3E:0.2,h170km,n20,+c062/23,mb3.8/10,Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like DZM Mont Dzumac, STKA Stephens Creek, WRA Warramunga Arr, ASAR Alice Springs, PETK Petropavlovsk, CMAR Chiang Mai Arr, GSPA South Pole Qui, SONM Songoing Array, MAW Maxwell, ILAR Eielson Array, MKAR Makanchi Array, ARCES ARCES Array B, BOSA Boshof, FINES FINES Array B, NOA NONSAR Array B, HFS Hagfors, AKASO Malin Array B, AKASO Malin Array B, BRTR Kishin Array B, KEST Kesra, ESDC Sonseca Array.

NEIC 16:20:56.13.0.1.4,12.56S:0.09:166.1E:0.1,h10km,1km, mb4.6/34,Error ellipse: s-maj=21.7km s-min=12.3km az=60.0
ISC 16:20:56.24.5.3.2,12.80S:165.89E,h102km,27km, mb4.2/12,mbtmp4.5/15,Error ellipse: s-maj=21.1km s-min=16.2km az=74.0
ISC 16:20:56.16.5.0.5,12.63S:0.07:166.16E:0.09,h40km,n88,+c1917/90,mb4.6/41,1C,Santa Cruz Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like SANVU Saraoutou, HNR Honiara, DZM Mont Dzumac, DZM Mont Dzumac, MSVF Nonsavu, PMG Port Moresby, CTAO Charters Tower, PATS Pohnppei, ARMA Armidale, ALMA Almas, COEN Coen, COEN Coen, CAN Canberra, BKZ Black Stump Fm, STKA Stephens Creek, STKA Stephens Creek, WRO Warramunga Arr, WR8 Warramunga Arr, WBO Warramunga Arr, WBO Warramunga Arr, WB2 Warramunga Arr, WRA Warramunga Arr, WRA Warramunga Arr, AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, BBOO Buckleboe, KNA Kununurra, FITZ Fitzroy Crossi, FORT Forrest, MJAR Matsushiro Arr, KSRZ Korea Array, NJ2 Nanjing, NJ2 Nanjing, USRK Ussuriysk Arr, MDJ Mudanjiang, MDJ Mudanjiang, TIA Tai'an, TIA Tai'an, BNX BinXian, BNX BinXian, HEH Heihe, HEH Heihe, KMI Kunming.

ISC 16:20:59.10.2.7.8,30.27S:178.08W,h0km,mb3.2/2, s-mtmp3.2/2,Error ellipse: s-maj=329.0km s-min=1.9km az=155.0,Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, FINES FINES Array B.

ISC 16:20:42.50.7.8.1,31.16S:177.71W,h0km,mb3.3/2, mbtmp3.3/2,Error ellipse: s-maj=347.2km s-min=65.4km az=157.0,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, FINES FINES Array B.

CATAC 16:20:45.53.8.0.8,12.16N:87.7W,h123km,5km,M2.3/8,MLV2.3/8,Error ellipse: s-maj=14.1km s-min=6.9km az=34.3,confirmed,Nicaragua

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like COPS Copalpete, SAPS Ciudad Sandino, SAPS Ciudad Sandino, MOMM Momotombo, MOMM El Cardon, MOMM Cerro Negro, CANS Cerro Negro, CANS AI N del Volca, NANN Nandasmo, NANN Nandasmo, PKGN Cerro Pekin.

Table with columns: KMI, XLT, CMAR, HHC, PZH, LZH, QSPA, SONMI, GTA, PCA, G2K1, C18K, IL31, ILAR, DOT, C19K, J25K, SCRK, G24K, B21K, F24K, NVAR, D23K, E25K, MK31, MKAR, ZALV, SNA4, ARCES, FINES, NB2, NOA, AKASG, BRTR, MMAI, GERES, KEST, POLO, MVO, PVRL, PVIS, ESDC, MTE, PCAS, PCBR, PSARD, PMR, PSBE, PMTG. Each row contains station name, coordinates, and various parameters.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GLKZ, RAO, RIZ, MIZ, WMGZ, PKGZ, HAZ, PUKETITI, RAUKAMARA, WAIUHA, KUAOTONU, WHALE ISLAND, CARNAGH, KARAKA, UREWERA, etc.

Table with columns: MOO, TOO, CMSA, GMSX, QLP, ARPS, CTAO, STKA, BBOO, PMG, QIS, COEN, ASOI, AS31, ASAR, MANU, WR8, WRAB, WRA, PATS, FORT, SBA, SBA, VNSA, VNSA, VNSA, JAY, GENI, KDU, KDU, MTN, SMPI, KMBL, KMBL, FITZ, FITZ, CASY, CASY, KLBK, KLBK, KLBK, KLBK. Each row contains station name, coordinates, and various parameters.

WEL 16:20:58:18.6, 1.2, 32.4, 17.7W, 1.9, h33km, M5, 4/14, mB5, 7/14, ML6, 2/12, MLV5, 9/12, Mw(mB)5=2/14, Error ellipse: s-maj=25.6km s-min=3.8km az=90.0, confirmed IDC 16:20:58:20.0, 0.4, 31.87S, 177.80W, h0km, mB4, 9/20, m1mtp, 8/22, ML4, 9/2, MS5, 2/45, Error ellipse: s-maj=16.3km s-min=15.5km az=153.0 MOS 16:20:58:21.4, 0.9, 31.63S, 177.92W, h24km, mB5, 6/25, MS5, 3/24, Error ellipse: s-maj=11.6km s-min=8.2km az=102.9 BUI 16:20:58:22.4, 31.47S, 177.33W, h31km, mB5, 8/58, mB5, 4/55, MS5, 5/76, M57, 5/275 NEIC 16:20:58:22.1, 2.5, 31.66S, 0.04, 177.3W, 0.1, h10km, 1km, s-maj=51.84, Ms\_20, 5/95, Mww5, 6/41, Error ellipse: s-maj=21.0km s-min=4.6km az=77.0 NOU 16:20:58:24.0, 32.02S, 177.39W, h36km, mB5, 4/68, South of Kermadec Islands NEIC 16:20:58:26.3, 31.64S, 177.85W, h22km GCMT 16:20:58:26.1, 0.1, 31.68S, 0.01, 177.47W, 0.01, h14km, MW5, 5/162, Moment Tensor Solution, s122c227; s162c307; Duration: 1s5 Moment tensor: Scale 1017 Nm; Mr: 2.08±0.03; Mw: 0.03±0.02; Mo: -2.04±0.2; Mo: 2.4±0.5; Mo: -0.44±0.2; Mr: 1.60±0.6; Best double couple: Me2.65600±0.177 NP1.99194, 0.0000±0.826, 0.0000±1.94, 0.0000±0. NP2.9910, 0.0000±0.864, 0.0000±1.88, 0.0000±0. Principal axes: T 2.6310, P1g71.0000, Azm276.0000, N 0.0570, P1g2.0000, Azm11.0000, P -2.6820, P1g19.0000, Azm101.0000; nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function NEIC 16:20:58:26.3, 31.84S, 176.91W, h22km, Moment Tensor Solution. Duration: 2.9 Moment tensor: Scale 1017Nm; Mr: 2.00; Mw: 0.17; Mo: -2.17; Mo: 18; Mo: -0.50; Mr: 1.61; Fault plane solution: Ms2.69000±0.1017 NP1.99194, 0.0000±0.826, 0.0000±1.94, 0.0000±0. NP2.9910, 0.0000±0.864, 0.0000±1.88, 0.0000±0. Principal axes: T 2.5473, P1g71.0000, Azm271.0000, N 0.2670, P1g3.0000, Azm10.0000; P -2.8143, P1g19.0000, Azm101.0000;

16d 20h

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like FAKI, MEEK, MUUN, PSAOO, etc.

2019 JUN

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like OZH, QZH, QZK, etc.

900

Table with columns for station call letters, name, frequency, power, and other technical details. Includes stations like PETK, G004, KMPM, etc.



ISLE	Juniper Island	96.52	17	IAMS_20	IAMS_20	21 58	24.9
ANM	Nome	96.53	5	IAMS_20	IAMS_20	21 58	27.2
TGL	Tana Glacier	96.53	16	IAMS_20	IAMS_20	21 54	57.2
PLLA	Purkeypile	96.56	11	IAMS_20	IAMS_20	21 54	21.4
XLT	XilinHaoTe	96.56	318	eP	P	21 11 50.0	-1.0
XLT				pP	pP	21 11 59.1	+0.7
XLT				sP	SKS	21 22 21.1	-4.6
XLT				S	SS	21 23 07.0	-2.9
XLT				S	pmax		
XLT	comp-Z,7.0nm,1.3s				pmax	pmax	
XLT	comp-Z,230nm,7.0s				LR	LR	
XLT	comp-Z,520nm,15.6s				LR	LR	
PCA	Pinnacle	96.61	18	IAMS_20	IAMS_20	21 51	25.4
BCPM	Bancas Point	96.65	18	IAMS_20	IAMS_20	21 51	16.5
FXWY	Fox Creek	96.65	42	IAMS_20	IAMS_20	21 55	21.4
TABL	Table Mountain	96.68	17	IAMS_20	IAMS_20	21 55	12.1
GRNC	Granite Creek	96.78	17	IAMS_20	IAMS_20	21 58	41.7
VRDI	Verde Repeater	96.80	16	IAMS_20	IAMS_20	21 53	06.2
DLMT	Dillon	96.84	40	Iamb	Iamb	21 13	09.8
DLMT	comp-Z,2um,20.0s				IAMS_20	IAMS_20	21 50 58.3
N25K	Chitina, Valde	96.87	15	IAMS_20	IAMS_20	21 58	59.1
P29W	Windy Craggy	96.89	19	IAMS_20	IAMS_20	21 55	44.1
GLB	Gilahina Butte	96.91	16	IAMS_20	IAMS_20	21 53	11.0
BW06	Boulder Array	96.97	44	IAMS_20	IAMS_20	21 55	54.0
PDAR	Pinedale Array	96.97	44	P	P	21 11 53.5	+0.4
PDAR	comp-Z,0.5nm,0.7s,baz=186,slow=1.5,SNR=4.1			PKPKP	PKPKPbc	21 28 35.6	+0.8
M24K	Tolsona, Glenn	96.97	14	IAMS_20	IAMS_20	21 53	36.7
MCARA	McCCarthy VSAT	97.04	16	IAMS_20	IAMS_20	21 53	12.5
LOGN	Logan Glacier	97.04	17	IAMS_20	IAMS_20	21 50	15.8
CD2	Chengdu	97.05	302	P	Pdf	21 11 55.0	+1.4
CD2	comp-Z,10.0nm,0.5s				pmax	pmax	
CAST	Castle Rocks	97.06	11	IAMS_20	IAMS_20	21 57	49.7
CTGM	Chitina Glacie	97.08	17	IAMS_20	IAMS_20	21 56	13.7
BARN	Barnard Glacie	97.08	17	IAMS_20	IAMS_20	21 55	33.8
T35M	Bob Quinn	97.10	24	IAMS_20	IAMS_20	21 57	50.0
O28M	Mount Upton	97.20	18	IAMS_20	IAMS_20	21 50	30.1
O29M	Mount Kennedy	97.23	18	IAMS_20	IAMS_20	21 51	45.9
YHB	Horse Butte	97.24	41	IAMS_20	IAMS_20	21 55	49.9
HERN	Volcan Telica	97.26	80	IAMS_20	IAMS_20	21 50	50.6
LPAZ	La Paz	97.34	114	P	Pdf	21 11 57.6	+1.6
LPAZ	comp-Z,320nm,18.1s,baz=213,slow=32				LR	LR	21 49 46.5
KTH	Kantishna Hill	97.38	12	IAMS_20	IAMS_20	21 56	23.2
HHC	Hu-ho-hao-te	97.39	314	eP	Pdf	21 11 57.3	+2.3
HHC				sP	pwP	21 12 12.3	+3.0
HHC				S	S	21 23 17.5	+0.2
HHC				S	pmax		
HHC	comp-Z,10.0nm,0.6s				pmax	pmax	
HHC	comp-Z,150nm,5.9s				LR	LR	
HHC	comp-Z,530nm,17.7s				LR	LR	
HHC	comp-Z,470nm,20.2s				LR	LR	
SEY	Seymchan	97.39	347	LR	LR	21 55	39.5
SEY	comp-Z,330nm,18.3s,baz=164,slow=35				pmax	pmax	
SEY	Seymchan	97.39	347	eP	P	21 11 53.5	-0.7
TRF	Thorfare Moun	97.40	12	IAMS_20	IAMS_20	21 53	39.7
AMTX	Amarillo	97.44	54	IAMS_20	IAMS_20	21 54	31.7
YNM	Yellowstone No	97.50	41	IAMS_20	IAMS_20	21 55	50.9
YNR	Norris Junctio	97.51	41	IAMS_20	IAMS_20	21 55	51.1
S34M	Telegraph Cree	97.53	23	IAMS_20	IAMS_20	22 01	11.2
RTBA	Rita Blanca	97.58	52	Iamb	Iamb	21 11	58.3
ZEA	Zeya	97.59	331	eP	P	21 11 55.2	-0.1
DHY	Denali Highway	97.60	13	IAMS_20	IAMS_20	21 59	43.2
G16K	Koyuk River	97.61	6	IAMS_20	IAMS_20	21 55	32.8
RND	Reindeer	97.62	13	P	Pdf	21 11 55.4	0.0
RND	comp-Z,22nm,1.5s				Iamb	Iamb	21 12 29.9
RND	Reindeer	97.62	13	P	Pdf	21 11 55.4	0.0
RND	comp-Z,22nm,1.5s				pmax	pmax	
RND	comp-Z,2um,19.0s				MLR	MLR	
ABTX	Abilene, Hawle	97.62	56	IAMS_20	IAMS_20	21 55	17.0
JTS	Las Lunas de S	97.66	83	LR	LR	21 48	40.7
F15K	North Star Dit	97.72	5	IAMS_20	IAMS_20	21 53	57.5
TNCH	TengChong	97.87	294	eP	P	21 11 56.8	-0.7
TNCH				pP	pP	21 12 04.8	-0.1
TNCH				PP	PP	21 15 55.1	-1.4
TNCH				S	SS	21 23 10.4	-1.2
TNCH	comp-Z,13nm,2.1s				S	pmax	
TNCH	comp-Z,92nm,2.7s					pmax	pmax
TNCH	comp-Z,260nm,15.4s				LR	LR	
TNCH	comp-Z,390nm,15.5s				LR	LR	
BPAW	Bear Paw Mtn	97.88	11	IAMS_20	IAMS_20	21 58	23.3
M26K	Nabesna, AK	97.93	16	IAMS_20	IAMS_20	21 59	43.2
HYT	Haines Junctio	97.96	19	IAMS_20	IAMS_20	21 56	35.2
Q32M	Nakina River	97.98	22	IAMS_20	IAMS_20	22 01	13.1
BOAB	BOACO BROADB	98.15	80	IAMS_20	IAMS_20	21 47	29.4
M27K	Edge Creek, AK	98.16	16	Iamb	Iamb	21 12	33.7
M27K	comp-Z,25nm,1.7s				IAMS_20	IAMS_20	21 53 50.1
BTO	Baotou	98.20	313	eP	Pdf	21 12 01.3	+2.7
BTO				pP	pwP	21 12 11.8	-1.1
BTO				sP	sP	21 12 15.5	+7.2
BTO				SKS	SKS	21 22 34.6	+0.3
BTO				SS	SS	21 23 24.9	+0.6
BTO				SS	SS	21 23 40.8	+4.3
BTO				SS	SS	21 30 12.1	+3.7

BTO	comp-Z,10.0nm,0.5s				pmax	pmax	
BTO	comp-Z,430nm,6.7s				LR	LR	
BTO	comp-Z,1um,19.3s				LR	LR	
BTO	comp-Z,1um,18.4s				LR	LR	
MENT	Mentasta	98.24	15	IAMS_20	IAMS_20	21 54	17.3
DLBC	Dease Lake	98.30	23	IAMS_20	IAMS_20	22 01	10.8
DLBC	Dease Lake	98.30	23	LR	LR	21 48	32.9
O30N	Mendenhall	98.30	19	IAMS_20	IAMS_20	21 56	29.3
L26K	Log Cabin Wild	98.40	15	IAMS_20	IAMS_20	21 54	13.5
G18K	Tagagawik	98.49	8	IAMS_20	IAMS_20	21 57	44.1
RLMT	Red Lodge	98.55	42	IAMS_20	IAMS_20	21 56	33.7
K24K	Donnelly Dome	98.58	14	IAMS_20	IAMS_20	21 54	41.0
N30M	Aishik Lake	98.60	18	IAMS_20	IAMS_20	21 52	49.1
RIDG	Independent Ri	98.71	14	IAMS_20	IAMS_20	21 54	25.6
WRH	Wood River Hill	98.73	13	P	P	21 11 59.4	-0.7
WRH	comp-Z,15nm,1.4s				Iamb	Iamb	21 13 22.7
WRH	comp-Z,2um,19.0s				IAMS_20	IAMS_20	21 54 38.0
F17K	Baldwin Pennin	98.74	7	IAMS_20	IAMS_20	21 56	08.1
R33M	Jennings River	98.74	22	IAMS_20	IAMS_20	22 01	22.2
L27K	Beaver Creek,	98.78	16	IAMS_20	IAMS_20	21 54	02.5
MLY	Manley	98.78	11	IAMS_20	IAMS_20	21 58	51.1
DOT	Dot Lake	98.80	14	IAMS_20	IAMS_20	22 00	23.8
P33M	Teslin, Yukon	98.81	21	IAMS_20	IAMS_20	22 04	36.8
WHTX	Lake Whitney,	98.85	58	IAMS_20	IAMS_20	21 55	54.7
CPUP	Villa Florida	98.92	128	LR	LR	21 52	22.6
CCB	Clear Creek Bu	98.94	13	IAMS_20	IAMS_20	21 55	02.6
FW03	Perrin-Whitt E	98.97	57	IAMS_20	IAMS_20	21 51	20.6
M29M	Somme Creek	99.06	17	IAMS_20	IAMS_20	21 53	17.2
SCRK	Sand Creek	99.10	14	IAMS_20	IAMS_20	21 54	36.9
I23K	Minto, Yukon-K	99.12	12	IAMS_20	IAMS_20	21 54	54.2
COLA	College	99.14	12	IAMS_20	IAMS_20	21 54	31.7
ILAR	Gleason Array	99.23	13	P	Pdf	21 12 02.1	-0.3
ILAR	comp-Z,2.3nm,1.1s,baz=206,slow=6.3,SNR=7.3				PP	PP	21 16 05.7 -0.2
ILAR	comp-Z,619nm,19.4s,baz=206,slow=32				LR	LR	21 52 00.4
FW14	Alvarado	99.25	58	IAMS_20	IAMS_20	21 56	04.3
J25K	Salcha River,	99.38	14	IAMS_20	IAMS_20	22 00	05.2
P05K	Poker Plat Res	99.44	12	IAMS_20	IAMS_20	21 54	41.7
N32M	Quiet Lake	99.48	20	IAMS_20	IAMS_20	21 54	30.9
F19K	Shalerucik Mo	99.49	8	IAMS_20	IAMS_20	21 58	24.1
K27K	Chicken	99.56	15	IAMS_20	IAMS_20	21 54	48.6
ELIS	Ellis County	99.63	54	IAMS_20	IAMS_20	21 50	36.7
J26L	Joseph Creek	99.65	14	IAMS_20	IAMS_20	21 55	04.5
L29M	L29M	99.71	17	IAMS_20	IAMS_20	21 57	38.2
H23K	Yukon River	99.71	11	IAMS_20	IAMS_20	21 55	53.8
G21K	Allakaket	99.74	10	IAMS_20	IAMS_20	21 56	29.4
E18K	Tukpahlearik C	99.75	7	IAMS_20	IAMS_20	21 57	00.5
LZH	Lanzhou	99.76	306	eP	Pdf	21 12 05.8	+0.1
LZH	comp-Z,9.0nm,1.0s				sP	sP	21 12 15.9 +0.4
LZH	comp-Z,220nm,4.6s				pmax	pmax	
LZH	comp-Z,250nm,17.7s				LR	LR	
LZH	comp-Z,610nm,17.9s				LR	LR	
M31M	Drury Creek, Y	99.95	19	IAMS_20	IAMS_20	21 57	31.7
WTLY	Watsko Lake, Y	100.00	23	IAMS_20	IAMS_20	22 02	03.5
H24K	Noodor Dome	100.01	12	IAMS_20	IAMS_20	21 55	09.7
RDOG	Red Dog Mine	100.16	6	IAMS_20	IAMS_20	21 55	25.2
C16K	Lisborne Hills	100.20	5	IAMS_20	IAMS_20	21 52	29.0
DAWY	Dawson	100.20	16	IAMS_20	IAMS_20	21 56	46.2
BILL	Bilibino	100.26	354	IAMS_20	IAMS_20	21 57	36.2
BILL	Bilibino	100.26	354	iP	Pdf	21 12 07.9	+1.0
BILL	comp-Z,4.0nm,1.3s				pmax	pmax	
BILL	comp-Z,2um,19.0s				MLR	MLR	
FARO	Faro, Yukon	100.26	19	IAMS_20	IAMS_20	21 57	33.1
F21K	Alatna River	100.41	9	IAMS_20	IAMS_20	22 02	39.0
I26K	Coal Creek Min	100.44	14	IAMS_20	IAMS_20	21 55	57.3
G23K	Bananza Creek	100.45	11	IAMS_20	IAMS_20	21 58	20.2
K29M	Barlow Dome	100.47	17	IAMS_20	IAMS_20	21 54	21.4
FNO	Feno	100.60	55	IAMS_20	IAMS_20	21 57	38.6
MAYO	Mayo, Yukon	100.68	18	IAMS_20	IAMS_20	21 54	06.9
NATX	Nacogdoches	100.76	59	IAMS_20	IAMS_20	22 00	12.5
J29N	Klodike Camp	100.81	16	IAMS_20	IAMS_20	21 57	25.3
OK02S	Liberty Lake	100.84	55	IAMS_20	IAMS_20	21 56	07.9
CROK	Carrier	100.84	54	IAMS_20	IAMS_20	21 57	01.9
G24K	Hadweenciz Riv	100.86	12	IAMS_20	IAMS_20	21 56	06.2
CBKS	Cedar Bluff	100.87	51	IAMS_20	IAMS_20	21 56	29.3
C18K	Utukok River	100.89	6	IAMS_20	IAMS_20	21 56	09.6
COLD	Coldfoot	100.89	11	IAMS_20	IAMS_20	21 56	58.9
D19K	Kuna River	101.05	7	IAMS_20	IAMS_20	21 59	39.2
FYU	Fort Yukon	101.15	13	IAMS_20	IAMS_20	21 56	02.8
MMPY	Sheldon Lake	101.17	20	IAMS_20	IAMS_20	21 58	13.1
LAO	LASA Array	101.19	42	IAMS_20	IAMS_20	21 58	16.6
I28M	Miner Creek	101.25	15	IAMS_20	IAMS_20	22 01	58.9
441A	DeRidder	101.34	61	IAMS_20			



Table with columns: Call Sign, Frequency, Power, Band, and other technical details. Includes stations like P43A Skaggs, Pawnee, 4V8A Smith Brothers, etc.

Table with columns: Call Sign, Frequency, Power, Band, and other technical details. Includes stations like KPKS Saty, SATY Saty, 4V8A Smith Brothers, etc.

Table with columns: Call Sign, Frequency, Power, Band, and other technical details. Includes stations like NCK Moscow, MOS Moscow, SPMM Marine on St., etc.



IDC 16 21:12:45.4+1.2,31.73S:177.78W,h0km,mb4.2/4, mbmp4.2/5,ML3.5/1,Error ellipse: s-maj=45.8km s-min=31.0km az=141.0

NEIC 16 21:12:47.5+1.4,31.76S:0.10:177.9W,0.2,h10km,1km, mb4.6/17,Error ellipse: s-maj=27.0km s-min=16.7km az=88.0

ISC 16 21:12:49.2+0.6,31.84S:0.08:177.9W,0.1,h24km,n34, c077/34,mb4.5/13,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like RAO Raoul Island, URZ Urewera, RTZ Ruatuhuna, etc.

0.2nm,0.5s,baz=42,slow=2.1,SNR=3.9

IDC 16 21:53:01.7+3.6,9.62S:-112.52E,h0km,mb3.3/4, mbmp3.3/4,Error ellipse: s-maj=177.7km s-min=24.7km az=50.0,South of Jawa

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, SONMI Songoing Arr, etc.

IDC 16 21:55:59.7+0.9,30.35S:177.96W,h0km,mb4.3/7, mbmp4.3/7,MS3.7/3,Error ellipse: s-maj=29.4km s-min=24.5km az=51.0

NEIC 16 21:56:05.8+1.3,30.64S:0.10:178.0W,0.2,h35km,2km, mb5.0/21,Error ellipse: s-maj=25.9km s-min=16.3km az=92.0

ISC 16 21:56:06.4+0.5,30.89S:0.06:178.1W,0.1,h46km,n75, c218/86,mb4.8/16,1D,Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, RIZ Raoul Island, etc.

IDC 16 22:01:11.5+0.6,30.92S:177.56W,h0km,mb4.3/12, mbmp4.3/13,ML3.3/1,Error ellipse: s-maj=22.0km s-min=20.9km az=64.0

GCMT 16 22:02:17.6+0.4,31.14S:0.03:177.33W,0.03,h29km,1km, MW5.0/66,Moment Tensor Solution. s30,c33; s66,c81; Duration: 0 Moment tensor: Scale 10^19Nm; Mr2.11±.28; Mw2.16±.21; Mwp-4.27±.18; Mo-1.45±.39; Mo0.09±.13; Mw1.59±.25; Best double couple: Mc4.21000x10^16 Np1.9±.34,0.00000x,847.00000x,1.29.00000x. NP2: 0.32.00000x,0.70.00000x,1.133.00000x. Principal axes: T 3.7650,Plg47.0000,Azm347.0000; N 0.8880,Plg40.0000,Azm194.0000; P -6.6540,Plg14.0000; Nst1.000000; nst1 refers to body waves, cutoff=40s; nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

NEIC 16 22:02:18.6+2.0,30.98S:0.10:177.8W,0.2,h35km,1km, mb4.9/21,Error ellipse: s-maj=29.2km s-min=16.6km az=82.0

ISC 16 22:02:18.9+0.4,31.14S:0.06:177.88W,0.07,h46km,n110,c152/116,mb4.8/28,MS4.9/3,5C-1D,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like RAO Raoul Island, URZ Urewera, BFZ Birch Farm, etc.

IDC 16 21:27:31.1+6.8,31.71S:177.65W,h0km,mb3.4/2, mbmp3.4/2,Error ellipse: s-maj=293.6km s-min=63.2km az=158.0,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

GCG 16 21:31:48.1+0.6,14.34N:91.41W,h77km,17km,MD3.8, ML2.9,MW2.7,Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like STGO El Palmar, QSSA Sabana Grande, etc.

IDC 16 21:45:11.7+3.3,15.44S:66.86E,h0km,mb3.7/3, mbmp3.7/3,MS4.2/2,Error ellipse: s-maj=112.9km s-min=45.7km az=55.0,Mid-Indian Ridge

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like H08S1 Diego Garcia, H08S2 Diego Garcia, H08S3 Diego Garcia, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NB2 NORSAR Subarrat, NOA NORSAR Arr, HFS Hagfors, etc.

IDC 16 22:03:34.5+10.0,20.92S:178.55W,h499km,75km, mb2.4/2,mbmp3.5/3,Error ellipse: s-maj=236.9km s-min=43.8km az=145.0,Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like MSVF Nonsava, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 16 22:06:26.0+3.0,29.66S:177.98W,h0km,mb3.8/4, mbmp3.8/4,Error ellipse: s-maj=82.4km s-min=41.4km

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like STKA Stephens Creek, WRA Warramunga Arr, GSPA South Pole Qui, etc.

IDC 16 22:20:11.5+0.6,30.92S:177.56W,h0km,mb4.3/12, mbmp4.3/13,ML3.3/1,Error ellipse: s-maj=22.0km s-min=20.9km az=64.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like RAO Raoul Island, URZ Urewera, BFZ Birch Farm, etc.

IDC 16 22:02:18.9+0.4,31.14S:0.06:177.88W,0.07,h46km,n110,c152/116,mb4.8/28,MS4.9/3,5C-1D,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like RAO Raoul Island, URZ Urewera, BFZ Birch Farm, etc.













**Tensor Solution.** s3 Moment tensor: Scale 10<sup>16</sup>Nm; M<sub>1</sub>-2.69; M<sub>2</sub>0.69; M<sub>3</sub>2.00; M<sub>4</sub>1.04; M<sub>5</sub>0.16; M<sub>6</sub>-1.23; Fault plane solution: M2.79000x10<sup>16</sup> NP1; 0x194.00000°, 83.30000°, λ-65.00000°. NP2; 0x345.00000°, 86.100000°, λ-105.00000°. IDC 16 23:00:09.3-0.7, 36:57N; 140:53E, h80km, mb4.7/36, mbtmp5.0/40, MS4.0/34 Error ellipse: s-maj=9.7km s-min=8.2km az=76.0

**NEIC 16 23:00:09.6, 36:52N; 140:87E, h80km, Moment Tensor Solution.** Duration: 195 Moment tensor: Scale 10<sup>16</sup>Nm; M<sub>1</sub>-2.67; M<sub>2</sub>0.93; M<sub>3</sub>1.75; M<sub>4</sub>1.01; M<sub>5</sub>0.36; M<sub>6</sub>-0.75; Fault plane solution: M2.69000x10<sup>16</sup> NP1; 0x163.61000°, 83.250000°, λ-74.70000°. NP2; 0x325.62000°, 85.8736000°, λ-99.57000°. Principal axes: T 2.1335, P1g13.0000°, Azm63.0000°, N 0.8898, P1g8.0000°, Azm331.0000°, P -3.0233, P1g74.0000°, Azm210.0000°.

**NEIC 16 23:00:09.9, 1.7, 36:54N; 140:74E; 0:09, h74km, 4km, mb5.0/607, Mww4.9/15 Error ellipse: s-maj=10.4km s-min=7.0km az=109.0**

**JMA 16 23:00:09.5-0.1, 36:5N; 0:2-140:6E; 0:5, h77km, MD5.1/39, MW4.9/39, NORTHERN IBARAKI PREF.**

**JMA Fall IV J1 at NORTHERN IBARAKI PREF.**  
**NEIC 16 23:00:10.0, 0.2, 36:52N; 140:66E; 0:02, h74km, 1km, GCMT 16 23:00:10.0, 0.2, 36:52N; 140:66E; 0:02, h74km, 1km, MW4.9/122, Moment Tensor Solution.** s60, c69; s122, c177; Duration: 0 Moment tensor: Scale 10<sup>16</sup>Nm; M<sub>1</sub>-2.90±.11; M<sub>2</sub>0.23±.10; M<sub>3</sub>2.67±.09; M<sub>4</sub>1.30±.06; M<sub>5</sub>0.56±.09; M<sub>6</sub>-0.96±.07; Best double couple; M3.22200x10<sup>16</sup> NP1; 0x211.00000°, 84.20000°, λ-57.00000°. NP2; 0x350.00000°, 85.60000°, λ-116.00000°. Principal axes: T 2.8810, P1g8.0000°, Azm8.0000°, N 0.6830, P1g21.0000°, Azm5.0000°, P -3.5630, P1g7.0000°, Azm207.0000°, nstai refers to body waves, cutoff=90s. nstaz refers to surface waves, cutoff=60s. Triangular moment-rate function

**BGR 16 23:00:12.6, 37.00N; 140.76E, h75km, 1km, mb5.2**  
**ISC 16 23:00:08.9-0.3, 36.59N; 140:62E; 0:03, h76km, 1km, h76km; p-P, n1645, c1819/1658, mb5.0/461, 51C-90D, Near east coast of eastern Honshu**

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h s	ISC
JHO	Hitachi	0.04	297	Op	23 00 20.6	+0.8
JHO	Hitachi	0.04	297	Pn	23 00 20.8	+1.1
JHO	Hitachi	0.04	297	Sn	23 00 20.8	+1.1
JHYU	Hitachinakayama	0.25	186	Pn	23 00 21.0	+0.6
JHYU	Hitachinakayama	0.25	186	Pn	23 00 21.0	+0.7
JHYU	Hitachinakayama	0.25	186	Sn	23 00 21.0	
JYT	Yasato	0.50	223	P	23 00 22.4	+0.2
JYT	Yasato	0.50	223	S	23 00 22.4	0.0
JYF	Yasato	0.50	223	A	23 00 22.4	
JFFD	Fukushimafurud	0.50	355	A	23 00 23.8	
ONAJ	Iwakimizuishi	0.53	16	A	23 00 24.1	
JIHU	Itakohorinouch	0.63	187	A	23 00 23.5	
JSB	Shioba	0.68	304	A	23 00 25.1	
JFK	Kawauchi	0.80	15	Pn	23 00 26.7	+1.3
JFK	Kawauchi	0.80	15	Sn	23 00 26.7	+2.1
JFK	Kawauchi	0.80	15	A	23 00 26.7	
JAG	Ashikaga	0.95	260	Pn	23 00 27.5	+0.4
JAG	Ashikaga	0.95	260	Sn	23 00 27.5	+0.3
JAG	Ashikaga	0.95	260	A	23 00 27.5	
JSMT	Sammumatsuo	0.96	188	A	23 00 27.1	
JOTO	OTAMA OYAMA	0.99	347	Pn	23 00 29.3	+1.7
JOTO	OTAMA OYAMA	0.99	347	Sn	23 00 29.3	+2.6
JOTO	OTAMA OYAMA	0.99	347	A	23 00 29.3	
JFY	Yanaizu	1.09	318	Pn	23 00 30.3	+1.4
JFY	Yanaizu	1.09	318	A	23 00 30.3	+2.1
JKT	Katashina	1.11	279	P	23 00 30.0	+0.8
JKT	Katashina	1.11	279	Sn	23 00 30.0	+1.5
JKT	Katashina	1.11	279	A	23 00 30.0	
TOK	Tokyo	1.14	218	A	23 00 29.3	
JMST	Mihamasato	1.11	1	A	23 00 31.5	
JMM	Marumori	1.28	6	Pn	23 00 31.7	+0.5
JMM	Marumori	1.28	6	Sn	23 00 31.7	+0.9
JMM	Marumori	1.28	6	P	23 00 32.2	+2.0
JMM	Marumori	1.28	6	P	23 00 32.8	+1.5
JMM	Marumori	1.28	6	Sn	23 00 33.0	+2.0
JMM	Marumori	1.28	6	A	23 00 32.8	
JYAR	Yonezawaaradi	1.37	344	A	23 00 34.2	
JUON	Unuma	1.40	297	Pn	23 00 33.7	+1.0
JUON	Unuma	1.40	297	A	23 00 33.7	
JKUC	kamogawauchi	1.47	194	A	23 00 33.6	
JRY	Ryogami san	1.50	248	Pn	23 00 34.4	+0.4
JRY	Ryogami san	1.50	248	A	23 00 34.4	
JSGW	Sakamiharawaka	1.51	230	A	23 00 34.3	
JYO	Yogakoshi	1.57	210	A	23 00 34.9	
JGK	Kumi	1.59	270	A	23 00 36.0	
JNS	Sasagawa	1.61	320	A	23 00 37.1	
TATJ	Tateyama 2	1.67	201	A	23 00 36.2	
JYS	Shirataka	1.68	345	A	23 00 38.5	
JOU	Okura	1.77	1	A	23 00 39.8	
JIZZ	Izumozaki	1.79	239	A	23 00 39.3	
JOD2	Odawara 2	1.82	224	A	23 00 38.3	
JKHK	Ishinokakibuo	1.84	21	A	23 00 40.8	
MJAR	Matsushiro Arr	1.94	269	Pn	23 00 40.0	+0.1
MJAR	Matsushiro Arr	1.94	269	Sn	23 00 59.7	-3.8
MJAR	Matsushiro Arr	1.94	269	LR	23 01 26.9	
MJAR	Matsushiro Arr	1.94	269	P	23 00 40.0	+0.1
MAJO	Matsushiro	1.94	269	P	23 00 41.2	+1.3
MAJO	Matsushiro	1.94	269	P	23 00 40.8	+0.9
MJB5	Matsushiro Tunnel	1.94	269	Pn	23 00 43.5	+3.6
JIO	Ouri	1.95	17	A	23 00 42.3	
JYN	Shimoda	1.96	238	A	23 00 41.1	
JOFO	Osakifurukawa	2.02	7	A	23 00 43.2	
JJN	Nakama	2.04	285	A	23 00 42.3	
JNG	Nsakai	2.04	266	A	23 00 42.0	
JHTM	Fujishitama	2.09	219	A	23 00 42.1	
JFNN	Fujinakan	2.10	229	A	23 00 42.3	
JIM2	Oshima 3	2.10	208	A	23 00 42.2	
JYA	Atsumi	2.12	341	A	23 00 44.5	
JNT	Takato	2.13	251	A	23 00 43.0	
JAW	Awa shima	2.16	330	A	23 00 44.8	
JKMT	Kesennumamotoy	2.32	17	A	23 00 47.4	

JTHY	Toshimihagashi	2.33	208	A	23 00 45.3	
JYK	Kaneyama	2.33	355	A	23 00 47.5	
JJZS	Izushimoda	2.33	219	A	23 00 45.6	
JSD	Sado	2.37	308	P	23 00 46.8	+1.2
JSD	Sado	2.37	308	Pn	23 00 47.4	
JMK	Ichinoise	2.41	11	A	23 00 48.6	
SHZ3	Shizuoka 3	2.48	233	A	23 00 47.6	
JYJZ	Yamagatayuz	2.48	348	A	23 00 49.5	
JNIO	Nijimaohara	2.48	207	A	23 00 47.5	
JSKK	Shikinejimaki	2.53	207	A	23 00 48.1	
JNY	Yasuok	2.55	242	A	23 00 48.7	
OFUJ	Ofunato	2.62	18	A	23 00 51.6	
JTT	Tateyama	2.64	271	A	23 00 50.5	
JSZ	Suzu	2.74	289	A	23 00 52.2	
JSG	Sagara	2.75	227	Pn	23 00 50.4	-0.4
JSG	Sagara	2.75	227	P	23 00 52.9	+2.1
JSG	Sagara	2.75	227	A	23 00 51.3	
JRG	Rokugo	2.80	250	A	23 00 54.1	
JGF	Kuroka	2.82	250	Pn	23 00 53.3	+1.5
JGF	Kuroka	2.82	250	P	23 00 53.6	+1.8
JGF	Kuroka	2.82	250	A	23 00 52.5	
JMKM	Mikuramatsubo	2.82	250	A	23 00 52.1	
JKKS	Kakegawashinon	2.82	230	A	23 00 52.3	
HMMU	Hamamatsui	2.92	252	A	23 00 53.8	
JOM	Ohasama	2.93	10	A	23 00 55.8	
JYW	Yyuwa	2.96	354	A	23 00 56.3	
JAO	Obara	3.03	245	A	23 00 55.4	
MIJY	Miyakonagasawa	3.13	17	A	23 00 58.6	
JSZI	Iwatehishizukus	3.16	5	A	23 00 59.0	
INU	Inuyama	3.17	248	Pn	23 00 56.8	+0.3
INU	Inuyama	3.17	248	P	23 00 58.2	+1.5
JYTA	Yamatataniai	3.20	254	A	23 00 59.0	
JICN	Ichinomiyachi	3.32	248	A	23 00 59.5	
TKOZ	TOMANAKI O.B.S	3.33	226	A	23 00 59.3	
JJZ	Kuzumaki	3.43	9	A	23 01 02.9	
JAA	Atsumi	3.44	236	A	23 01 01.0	
JTH	Tanohata	3.48	16	A	23 01 03.6	
JHJ2	Mitsune	3.53	191	Pn	23 00 59.6	-1.8
JHJ	Hinai	3.59	0	A	23 01 05.1	
JKEN	Kujiedanarisaw	3.71	13	A	23 01 06.7	
JEG	Eigenji	3.73	248	A	23 01 05.1	
JANG	Nango	3.84	10	A	23 01 08.0	
JIE	Ise	3.87	237	A	23 01 07.0	
JFM	Mihama	3.90	254	A	23 01 07.7	
JTM	Tenabayashi	4.20	5	Pn	23 01 11.8	+1.3
JTM	Tenabayashi	4.20	5	P	23 01 11.8	+1.3
JARK	Aomorirokasho	4.45	4	A	23 01 17.0	
JSI2	Shiura 2	4.46	358	A	23 01 17.2	
JKY	Yasaka	4.57	259	A	23 01 17.0	
JAHJ	Aomorigahashid	4.70	7	A	23 01 20.5	
JOT	Ohata	4.80	4	A	23 01 21.9	
ERM	Erimo	5.76	19	Pn	23 01 30.0	-1.8
ERM	Erimo	5.76	19	P	23 01 30.8	-1.0
JMN	Mnobe	6.21	245	Pn	23 01 37.8	-0.2
JMN	Mnobe	6.21	245	P	23 01 38.4	+0.4
ASAJ	Asahikawa	7.67	11	P	23 01 56.5	-1.3
ASAJ	Asahikawa	7.67	11	Sn	23 03 21.4	-1.7
ASAJ	Asahikawa	7.67	11	Pn	23 01 55.6	-2.2
NMR	Nemuro-Hokkai	7.82	29	Pn	23 01 56.9	-3.0
NMR	Nemuro-Hokkai	7.82	29	P	23 03 19.1	-7.7
GLVR	Golovmino	8.06	26	eS	23 02 00.9	-2.3
GLVR	Golovmino	8.06	26	eS	23 03 26.8	-5.9
GLVR	Golovmino	8.06	26	pmax		
RUSJ	Misachio	8.29	24	eP	23 02 04.9	-1.4
RUSJ	Misachio	8.29	24	Sn	23 03 34.0	-4.3
YUK	Yuzh-Kuril'sk	8.44	27	eS	23 02 06.9	-1.4
YUK	Yuzh-Kuril'sk	8.44	27	Sn	23 03 35.2	-6.8
YUK	Yuzh-Kuril'sk	8.44	27	pmax		
YUK	Yuzh-Kuril'sk	8.44	27	pmax		
SHO	Shikotan	8.68	31	eP	23 02 09.8	-1.8
SHO	Shikotan	8.68	31	Sn	23 03 39.7	-8.1
SHO	Shikotan	8.68	31	pmax		
SHO	Shikotan	8.68	31	pmax		
JNU	Nakatsue	8.72	249	Pn	23 02 12.1	-0.2
JNU	Nakatsue	8.72	249	P	23 02 13.0	+0.7
JNU	Nakatsue	8.72	249	LR	23 05 50.9	
JNU	Nakatsue	8.72	249	P	23 02 14.2	+1.9
TEY	Telnei	8.97	341	eP	23 02 15.9	+0.4
TEY	Telnei	8.97	341	pmax		
TEY	Telnei	8.97	341	pmax		
TEY	Telnei	8.97	341	pmax		
MSHR	Mys Shulitsa	9.44	112	P	23 02 21.9	0.0
JCJ	Chichijima	9.56	172	Pn	23 02 19.4	-4.3
JCJ	Chichijima	9.56	172	P	23 02 18.4	-5.3
JCJ	Chichijima	9.56	172	S	23 03 56.4	-1.3
JCJ	Chichijima	9.56	172	P	23 02 27.0	+3.3
PSTR	Posyda	9.69	312	P	23 02 25.3	-0.1
USA0B	Ussuriysk Arra	10.05	322	Pn	23 02 31.5	+1.2
USA0B	Ussuriysk Arra	10.05	322	P	23 02 30.1	-0.2
USRK	Ussuriysk Arr	10.05	322	P	23 02 31.3	+1.0
USRK	Ussuriysk Arr	10.05	322	LR	23 06 07.4	
KSRS	Korea Array	10.19	279	Pn	23 02 37.8	+1.5
KSRS	Korea Array	10.19	279	P	23 06 17.1	
KSAR	Wonju Array	10.22	279	Pn	23 02 32.6	0.0
KSAR	Wonju Array	10.22	279	P	23 02 32.7	0.0
KUR	Kuril'sk	10.22	30	eP	23 02 30.6	-

Table with columns: Station Name, Frequency, Power, Modulation, and Time/Offset. Includes stations like Petropavlovsk, Suanglung, Yuli, and various others.

Table with columns: Station Name, Frequency, Power, Modulation, and Time/Offset. Includes stations like Songino Array, WAKE ISLAND, Lanzhou, and various others.

Table with columns: Station Name, Frequency, Power, Modulation, and Time/Offset. Includes stations like Mekoryuk, MSAI, APSI, TNA, and various others.

E18K	baz=263,SNR=8.3	44.88	28	P	P	23 08 17.1 +1.7
E18K	comp=Z,17nm,0.8s				Iamb	23 08 38.0
E18K	Tukpalearik C	44.88	28	P	P	23 08 15.2 -0.2
B18K	comp=Z,17nm,0.8s					23 08 15.8 0.0
O16K	Kokwok River B	44.95	39	P	P	23 08 16.3 +0.3
O16K	baz=254,SNR=8.3	44.95	39	P	P	23 08 15.4 -0.7
C18K	Utukok River	44.96	26	P	P	23 08 17.6 +1.5
C18K	baz=253,SNR=9.8	44.96	26	P	P	23 08 16.3 +0.2
P16K	Nushagak River	44.99	40	P	P	23 08 16.1 -0.2
L17K	Donlin	45.03	36	P	P	23 08 16.8 +0.2
BNSI	baz=265,SNR=13	45.06	210	P	P	23 08 17.0 -0.4
F18K	Selawik	45.08	29	P	P	23 08 17.1 +0.1
K17K	baz=259,SNR=6.1	45.08	35	P	P	23 08 18.8 +1.8
K17K	lditarod			Iamb	Iamb	23 08 26.5
K17K	lditarod	45.08	35	P	P	23 08 17.2 +0.2
BBSI	baz=264,SNR=16	45.14	206	P	P	23 08 18.3 +0.3
R16K	Pilot Point	45.18	42	P	P	23 08 17.5 -0.4
STKI	Sintang	45.28	233	P	P	23 08 18.8 -0.4
G18K	Tagagayak	45.25	30	P	P	23 08 20.7 +0.1
G18K	comp=Z,16nm,1.0s			Iamb	Iamb	23 08 27.8
G18K	Tagagayak	45.35	30	P	P	23 08 19.1 -0.1
H18K	Honhosa River	45.36	31	P	P	23 08 20.2 +1.0
H18K	Holitna River	45.38	37	P	P	23 08 19.6 +0.4
H18K	comp=Z,14nm,0.8s					23 08 41.8
M17K	Holitna River	45.38	37	P	P	23 08 21.4 +2.0
M17K	comp=Z,22nm,0.8s			Iamb	Iamb	23 08 42.6
M17K	Holitna River	45.38	37	P	P	23 08 19.2 -0.2
A19K	Wainwright	45.41	24	P	P	23 08 19.5 0.0
N17K	Nushagak Hills	45.45	38	P	P	23 08 20.6 +0.6
N17K	comp=Z,18nm,1.0s			Iamb	Iamb	23 08 43.4
N17K	Nushagak Hills	45.45	38	P	P	23 08 20.1 +0.1
O17K	Koliganek Bris	45.47	39	P	P	23 08 20.1 0.0
C19K	Lookout Ridge	45.63	26	P	P	23 08 23.3 +1.9
C19K	comp=Z,31nm,0.9s			Iamb	Iamb	23 08 43.8
C19K	Lookout Ridge	45.63	26	P	P	23 08 21.5 +0.1
KURK	Kurchatov	45.70	308	P	P	23 08 22.1 -0.1
KURK	Kurchatov	45.70	308	eP	eP	23 08 21.6 -0.5
KURK	comp=Z,91nm,1.3s					
KURK	Kurchatov	45.70	308	P	P	23 08 21.7 -0.4
KURK	comp=Z,91nm,1.3s			pP	pP	23 08 40.0 -0.8
KURK	Kurchatov	45.76	210	P	P	23 08 49.5 -0.1
KAPI	Kappang	45.76	210	P	P	23 08 22.1 -0.8
KAPI	Kappang	45.76	210	P	P	23 08 23.2 +0.3
KAPI	Kappang	45.76	210	iP	iP	23 08 22.7 -0.2
KAPI	Kappang	45.76	210	P	P	23 08 22.7 -0.2
KURBB	Kurchatov Arra	45.77	308	P	P	23 08 22.1 -0.5
KURBB	comp=Z,52nm,0.6s,slow=7.8,SNR=21.2					23 09 58.4 -0.7
KURBB	comp=Z,3.4nm,0.6s,slow=89,slow=7.5,SNR=0.5			S	S	23 14 60.0 -0.5
KURBB	comp=Z,2.1nm,1.0s,slow=85,slow=12,SNR=4.2			LR	LR	23 28 05.2
L18K	Granite Mounta	45.79	36	P	P	23 08 23.7 +1.1
L18K	Granite Mounta	45.79	36	P	P	23 08 22.7 0.0
P17K	Kvichak River	45.79	40	P	P	23 08 22.2 -0.5
EVN	Everest	45.79	275	P	P	23 08 24.0 +0.1
F19K	Shaleruckik Mo	45.85	29	P	P	23 08 23.2 +0.1
J18K	Innoko River	45.87	34	P	P	23 08 24.8 +1.5
J18K	Innoko River	45.87	34	P	P	23 08 22.8 -0.5
GCSA	Galena City Sc	45.93	32	P	P	23 08 23.3 -0.4
G19K	Purcell Mounta	46.02	30	P	P	23 08 25.2 +0.8
G19K	comp=Z,11nm,0.8s			Iamb	Iamb	23 10 02.5
G19K	Purcell Mounta	46.02	30	P	P	23 08 24.5 0.0
D19K	Kuna River	46.02	27	P	P	23 08 25.9 +1.5
D19K	Kuna River	46.02	27	P	P	23 08 24.4 0.0
Q17K	Contact Creek	46.08	41	P	P	23 08 24.6 -0.5
N18K	Kilae Creek	46.10	38	P	P	23 08 26.2 +1.1
N18K	comp=Z,16nm,0.8s			Iamb	Iamb	23 08 48.5
N18K	Kilae Creek	46.10	38	P	P	23 08 24.9 -0.2
M18K	Stony River	46.16	37	P	P	23 08 25.4 -0.1
PMG	Port Moresby	46.16	171	P	P	23 08 24.9 -1.1
PMG	comp=Z,34nm,1.2s			Iamb	Iamb	23 08 58.3
PMG	Port Moresby	46.16	171	P	P	23 08 24.9 -1.1
E19K	Redstone River	46.16	28	P	P	23 08 26.7 +1.2
E19K	comp=Z,23nm,0.8s			Iamb	Iamb	23 08 34.6
E19K	Redstone River	46.16	28	P	P	23 08 25.8 +0.3
H19K	Roundabout Mou	46.20	31	P	P	23 08 26.9 +1.1
H19K	comp=Z,16nm,0.7s			Iamb	Iamb	23 08 48.3
H19K	Roundabout Mou	46.20	31	P	P	23 08 26.1 +0.3
CHIR	Chirikof Islan	46.31	44	P	P	23 08 26.5 -0.3
AHA	Angle Creek He	46.38	41	P	P	23 08 28.3 +0.9
J19K	Poorman	46.40	33	P	P	23 08 28.4 +1.0
J19K	comp=Z,14nm,0.8s			Iamb	Iamb	23 08 36.0
J19K	Poorman	46.40	33	P	P	23 08 27.1 -0.4
P18K	Big Mountain,	46.41	39	P	P	23 08 27.8 +0.2
P18K	comp=Z,34nm,1.2s			Iamb	Iamb	23 08 58.3
P18K	Big Mountain,	46.41	39	P	P	23 08 27.4 -0.2
O18K	Koktuh Hills	46.42	39	P	P	23 08 28.3 +0.7
O18K	Koktuh Hills	46.42	39	P	P	23 08 27.1 -0.5
SRIT	Nakonsritamara	46.48	244	P	P	23 08 28.8 +0.2
SHLS	Nakonsritamara	46.48	298	eP	eP	23 08 29.2 +0.6
SHLS	Shalkode	46.48	298	eP	eP	23 08 25.4 -3.1
SHLS	comp=Z,11nm,0.7s					23 08 25.5 -3.1
Q18K	Katmai Hardscr	46.53	41	P	P	23 08 28.5 -0.1
D20K	Etiyvluk River	46.61	27	P	P	23 08 29.9 +0.9
D20K	comp=Z,20nm,0.9s			Iamb	Iamb	23 08 52.2
D20K	Etiyvluk River	46.61	27	P	P	23 08 29.7 +0.7
L19K	White Mountain	46.64	36	P	P	23 08 30.8 +1.5
L19K	White Mountain	46.64	36	P	P	23 08 29.9 +0.5
B20K	Meade River	46.66	25	P	P	23 08 31.0 +1.6
B20K	Meade River	46.66	25	P	P	23 08 30.3 +1.0
F20K	Avarant Lake	46.68	29	P	P	23 08 30.9 +1.3
F20K	Avarant Lake	46.68	29	P	P	23 08 29.8 +0.2

E20K	Nigu River	46.68	27	P	P	23 08 29.9 +0.2
N19K	Bonanza Creek	46.79	38	P	P	23 08 31.5 +0.9
N19K	Bonanza Creek	46.79	38	P	P	23 08 30.2 -0.4
UZB	Uzynbulak	46.79	298	eP	eP	23 08 30.2 -0.8
UZB	comp=Z,11nm,0.8s			pmax	pmax	
UZB	Uzynbulak	46.79	298	eP	eP	23 08 30.2 -0.8
TDK	Taldyqorghan	46.81	301	eP	eP	23 08 30.3 -0.6
TDK	comp=Z,8.0nm,0.5s			pmax	pmax	
TDK	Taldyqorghan	46.81	301	eP	eP	23 08 30.4 -0.6
H20K	Anotlenegga Mo	46.85	31	P	P	23 08 31.0 +0.1
M19K	Big River Lodg	46.85	36	P	P	23 08 32.0 +1.0
M19K	Big River Lodg	46.85	36	P	P	23 08 30.4 -0.6
R18K	Kariuk	46.86	42	P	P	23 08 30.8 -0.3
O19K	Port Aisworth	46.87	38	P	P	23 08 30.8 -0.3
O19K	comp=Z,18nm,0.8s			Iamb	Iamb	23 09 10.1
O19K	Port Aisworth	46.87	38	P	P	23 08 30.6 -0.5
KPKS	Kokpek	46.96	298	eP	eP	23 08 31.6 -0.6
KPKS	Kokpek	46.96	298	eP	eP	23 08 31.6 -0.6
I20K	Naaghedeneel	46.96	32	P	P	23 08 30.9 -0.8
I20K	comp=Z,20nm,0.9s			Iamb	Iamb	23 08 55.9
I20K	Naaghedeneel	46.96	32	P	P	23 08 31.3 -0.4
K20K	Telida	47.05	34	P	P	23 08 33.2 +0.7
K20K	comp=Z,14nm,0.8s			Iamb	Iamb	23 08 55.0
K20K	Telida	47.05	34	P	P	23 08 32.2 -0.3
J20K	Nowinta River	47.06	33	P	P	23 08 33.2 +0.6
J20K	Nowinta River	47.06	33	P	P	23 08 32.9 +0.3
SII	Sitkinak Islan	47.06	43	P	P	23 08 32.0 -0.8
L20K	Farewell, AK	47.11	35	P	P	23 08 33.5 +0.5
Q19K	Cape Douglas,	47.24	40	P	P	23 08 35.0 +0.9
Q19K	Cape Douglas,	47.24	40	P	P	23 08 33.7 -0.4
SATY	Saty	47.25	298	eP	eP	23 08 33.8 -0.7
SATY	Saty	47.25	298	eP	eP	23 08 33.8 -0.7
C21K	Knifeblade Rid	47.33	26	P	P	23 08 34.9 +0.3
IMAR	Indian Mountai	47.36	30	P	P	23 08 36.7 +1.8
ARXS	Arharly	47.38	300	iP	iP	23 08 34.8 -0.7
PRZ	Przheval'sk	47.40	297	P	P	23 08 37.2 +1.4
PRZ	Przheval'sk	47.40	297	P	P	23 08 37.2 +1.4
P19K	Oil Pt	47.42	39	P	P	23 08 34.7 -0.8
M20K	Styx River	47.45	36	P	P	23 08 37.4 +1.6
M20K	Styx River	47.45	36	P	P	23 08 35.6 -0.1
B21K	Ikpkpkuk River	47.46	25	P	P	23 08 37.3 +1.7
B21K	Ikpkpkuk River	47.46	25	P	P	23 08 36.4 +0.8
G21K	Allakaket	47.50	30	P	P	23 08 37.4 +1.4
G21K	Allakaket	47.50	30	P	P	23 08 37.0 +1.0
OHAK	Old Harbor	47.51	42	P	P	23 08 35.6 -0.6
E21K	Killik River	47.52	27	P	P	23 08 37.3 +1.2
E21K	comp=Z,16nm,0.8s			Iamb	Iamb	23 08 40.0
E21K	Killik River	47.52	27	P	P	23 08 36.9 +0.7
A22K	Sinclair Lake	47.57	24	P	P	23 08 37.4 +1.0
F21K	Alatna River	47.57	29	P	P	23 08 37.5 +1.0
F21K	Alatna River	47.57	29	P	P	23 08 37.1 +0.6
O20K	Slope Mountain	47.72	39	P	P	23 08 37.7 -0.2
H21K	Melozitna Rive	47.72	31	P	P	23 08 38.4 +0.7
H21K	Melozitna Rive	47.72	31	P	P	23 08 38.1 +0.4
KDAK	Kodiak Island	47.85	42	P	P	23 08 40.0 +1.2
KDAK	Kodiak Island	47.85	42	P	P	23 08 40.0 +1.2
KDAK	comp=Z,33nm,0.8s			pmax	pmax	
KDAK	Kodiak Island	47.85	42	P	P	23 08 38.7 -0.1
KDAK	Kodiak Island	47.85	42	P	P	23 08 40.5 +1.7
PPLA	Purkeypile	47.90	35	P	P	23 08 59.2 +1.7
PPLA	Purkeypile	47.90	35	P	P	23 08 41.0 +1.8
PPLA	comp=Z,58nm,1.8s			Iamb	Iamb	23 09 05.7
PPLA	Purkeypile	47.90	35	P	P	23 08 38.7 -0.5
SPCR	Spurr Chakacha	47.90	37	P	P	23 08 38.9 -0.3
N20K	Mount Spurr	47.90	37	P	P	23 08 39.4 +0.2
Q20K	Shuyak Island	47.90	40	P	P	23 08 38.8 -0.3
CAST	Castle Rocks	47.95	34	P	P	23 08 40.5 +1.0
CAST	Castle Rocks	47.95	34	P	P	23 08 39.6 +0.1
SPU	Mount Spurr	47.97	37	P	P	23 08 40.7 +0.9
B22K	Teshepkuk Lake	47.98	25	P	P	23 08 40.7 +1.2
B22K	comp=Z,32nm,1.2s			Iamb	Iamb	23 09 24.7
B22K	Teshepkuk Lake	47.98	25	P	P	23 08 40.3 +0.7
D22K	Aiyikyak River	48.05	27	P	P	23 08 42.1 +1.9
D22K	comp=Z,21nm,0.8s			Iamb	Iamb	23 08 44.1
D22K	Aiyikyak River	48.05	27	P	P	23 08 40.9 +0.7
STLK	Strandline Lak	48.07	37	P	P	23 08 42.2 +1.7
F22K	John River	48.10	28	P	P	23 08 41.5 -0.9
MMRI	Maumere	48.19	205	P	P	23 08 40.9 -0.9
SKT	Skwentna	48.20	36	P	P	23 08 43.1 +1.6
SKT	Skwentna	48.20	36	P	P	23 08 42.1 +0.6
HOM	Homer	48.23	39	P	P	23 08 41.7 0.0
AAA	Alma-Ata	48.27	299	eP	eP	23 0

WAT6	Susitna Watana baz=274	49.95	35	P	P	23 08 56.1 +1.1
POKR	Poker Plat Res baz=274	49.96	32	P	P	23 08 56.9 +2.1
POKR	Poker Plat Res baz=274,SNR=50	49.96	32	P	P	23 08 56.1 +1.3
MTN	Manton Dam	49.98	192	P	P	23 08 55.2 -0.2
MTN	Manton Dam	49.98	192	P	P	23 08 55.7 +0.3
KSH	Kashi	50.00	294	S	S	23 08 59.4 +3.7
KSH				S	S	23 16 08.4 +7.5
KSH	comp=Z,23nm,0.9s			pmax	pmax	
KSH	comp=Z,170nm,15.1s			LR	LR	
KSH	comp=Z,220nm,16.2s			LR	LR	
M23K	Glacier View baz=274	50.01	36	P	P	23 08 56.0 +0.7
PLAY	Plampang	50.02	210	P	P	23 08 55.3 -0.5
DHY	Denali Highway	50.09	34	P	P	23 08 58.0 +2.0
DHY				IAMB	IAMB	23 10 18.8
DHY	comp=Z,11nm,0.8s			IAMB	IAMB	
DHY	Denali Highway baz=274	50.09	34	P	P	23 08 56.3 +0.3
AAK	Ala-Archla	50.14	298	LR	LR	23 31 19.0
HDA	Harding Lake comp=Z,377nm,18.9s	50.20	33	P	P	23 08 57.4 +0.8
HDA				IAMB	IAMB	23 09 04.4
HDA	comp=Z,17nm,0.8s			IAMB	IAMB	
HDA	Harding Lake baz=273,SNR=10	50.20	33	P	P	23 08 57.4 +0.8
SCM	Sheep Creek Mo	50.20	36	P	P	23 08 58.2 +1.5
SCM				pp	pp	23 09 13.8 -1.8
SCM				IAMB	IAMB	23 09 47.8
SCM	comp=Z,18nm,0.9s			IAMB	IAMB	
IL31		50.21	32	P	P	23 08 57.5 +0.8
IL31				IAMB	IAMB	23 09 18.8
ILAR	comp=Z,16nm,0.8s			IAMB	IAMB	
ILAR	Eielson Array	50.21	32	P	P	23 08 57.7 +1.0
ILAR	Eielson Array	50.21	32	P	P	23 08 57.3 +0.6
ILAR	comp=Z,12nm,0.8s			IAMB	IAMB	
ILAR	Eielson Array comp=Z,12nm,0.8s	50.21	32	P	P	23 08 57.7 +1.0
D25K	Kavik River	50.33	26	P	P	23 08 59.0 +1.4
D25K				IAMB	IAMB	23 09 01.0
D25K	comp=Z,15nm,0.7s			IAMB	IAMB	
D25K	Kavik River baz=269,SNR=27	50.33	26	P	P	23 08 58.5 +0.9
COEN	Coen	50.33	177	P	P	23 08 57.9 -0.2
COEN	Coen	50.33	177	P	P	23 08 59.1 +1.0
PL3K	Montague Islan baz=278	50.34	38	P	P	23 08 58.2 +0.5
G2JK	Garling Island	50.40	37	P	P	23 08 58.3 +0.1
BVAR	Borovoye Array baz=276	50.40	312	P	P	23 08 57.6 -0.8
BVAR				PcP	PcP	23 10 15.9 +0.2
BVAR	comp=Z,11nm,0.7s			S	S	23 16 06.0 +0.2
BVAR	comp=Z,1.2nm,0.7s			LR	LR	23 31 05.0
BVAR	comp=Z,198nm,18.2s			LR	LR	23 31 05.0
BVAR	comp=Z,3.4nm,0.3s			LR	LR	23 31 05.0
BRVK	Borovoye	50.45	313	IAMB	IAMB	23 08 58.7 0.0
BRVK				IAMB	IAMB	23 09 33.3
BRVK	Borovoye	50.45	313	ceP	pmax	23 08 58.0 -0.7
BRVK				pmax	pmax	
BRVK	Borovoye	50.45	313	ceP	pmax	23 08 58.0 -0.7
BRVK				pmax	pmax	
G25K	Bearman Lake baz=272	50.46	30	P	P	23 08 58.8 +0.1
H25L	Birch Creek baz=272,SNR=7.9	50.59	30	P	P	23 09 00.4 +0.9
F25K	Christian River	50.61	28	P	P	23 09 01.5 +1.8
F25K				IAMB	IAMB	23 09 04.1
F25K	comp=Z,9.2nm,0.8s			IAMB	IAMB	
F25K	Christian River baz=271,SNR=14	50.61	28	P	P	23 09 01.0 +1.3
E25K	Arctic Village	50.63	28	P	P	23 09 01.8 +2.0
E25K				IAMB	IAMB	23 09 56.2
E25K	comp=Z,12nm,1.1s			IAMB	IAMB	
E25K	Arctic Village baz=271,SNR=10.0	50.63	28	P	P	23 09 00.8 +1.0
M24K	Tolsona, Glenn baz=275	50.72	36	P	P	23 09 00.2 -0.5
PRP	Porcupine Dome	50.74	31	P	P	23 09 02.5 +1.6
PRP				IAMB	IAMB	23 09 04.9
PRP	comp=Z,10nm,0.8s			IAMB	IAMB	
PRP	Porcupine Dome baz=273,SNR=10.0	50.74	31	P	P	23 09 01.4 +0.5
K24K	Donnelly Dome	50.75	33	P	P	23 09 02.0 +1.1
K24K	Donnelly Dome	50.75	33	P	P	23 09 01.3 +0.5
FYU	Fort Yukon	50.81	30	P	P	23 09 02.1 +1.0
FYU				IAMB	IAMB	23 09 48.5
C26K	Camden Bay baz=270	50.84	25	P	P	23 09 01.8 +0.4
J25K	Salcha River	50.87	32	P	P	23 09 02.6 +0.8
J25K	Salcha River	50.87	32	P	P	23 09 02.2 +0.5
KLU	Klutina	50.90	36	P	P	23 09 03.1 +1.0
KLU				IAMB	IAMB	23 09 10.8
KLU	comp=Z,12nm,0.8s			IAMB	IAMB	
KLU	Klutina baz=276	50.90	36	P	P	23 09 01.9 -0.2
Q23K	Middleton Isla	50.94	39	P	P	23 09 01.8 -0.4
PAX	Paxson	50.96	34	P	P	23 09 03.8 +1.3
PAX				IAMB	IAMB	23 10 20.3
PAX	comp=Z,9.8nm,0.7s			IAMB	IAMB	
PAX	Paxson	50.96	34	P	P	23 09 03.8 +1.3
PAX				pmax	pmax	
PAX	comp=Z,10.0nm,0.7s			pmax	pmax	
PSI	Prapat	51.02	239	P	P	23 09 03.6 0.0
PSI	Prapat	51.02	239	P	P	23 09 02.6 -1.0
PSI				pmax	pmax	
PSI	comp=Z,28nm,0.7s			pmax	pmax	
BMAR	Burnt Mountain	51.03	29	P	P	23 09 04.7 +1.8
EYAK	Cordova Ski Ar baz=277	51.09	38	P	P	23 09 02.5 -0.9
RPSI	Rantau Prapat	51.09	239	P	P	23 09 02.6 -1.4
HARP	HARP baz=276	51.16	35	P	P	23 09 03.4 -0.5
RIDG	Independent Ri	51.17	33	P	P	23 09 04.4 +0.4
RIDG				IAMB	IAMB	23 10 20.5
RIDG	comp=Z,10nm,1.0s			IAMB	IAMB	
RIDG	Independent Ri baz=275	51.17	33	P	P	23 09 03.3 -0.7
F26K	Sheenjek River	51.18	28	P	P	23 09 05.4 +1.4
F26K				IAMB	IAMB	23 09 51.1
F26K	comp=Z,18nm,0.9s			IAMB	IAMB	
F26K	Sheenjek River baz=273,SNR=24	51.18	28	P	P	23 09 04.1 0.0
JAGI	Jajag, Banyuwa	51.25	214	P	P	23 09 05.1 -1.0
C27K	Jago River	51.27	26	P	P	23 09 05.6 +1.0
C27K				IAMB	IAMB	23 09 26.8
C27K	comp=Z,9.1nm,0.7s			IAMB	IAMB	
C27K	Jago River baz=271,SNR=11	51.27	26	P	P	23 09 05.5 +1.0
G26K	Porcupine River	51.36	29	P	P	23 09 07.3 +2.0
G26K				IAMB	IAMB	23 10 02.1
G26K	comp=Z,13nm,1.1s			IAMB	IAMB	
G26K	Porcupine River baz=274	51.36	29	P	P	23 09 04.8 -0.5
BKNI	Bangkinang	51.42	235	P	P	23 09 05.9 -0.5
BKNI	Bangkinang	51.42	235	P	P	23 09 07.5 +1.1
N25K	Chitina, Valde	51.52	36	P	P	23 09 06.5 -0.2
N25K	Chitina, Valde	51.52	36	P	P	23 09 05.9 -0.8
N25K				IAMB	IAMB	23 09 07.9 +1.2
DOT	Dot Lake	51.53	33	P	P	23 09 07.9 +1.2
DOT				IAMB	IAMB	23 09 14.9
DOT	comp=Z,12nm,0.6s			IAMB	IAMB	
SCRK	Sand Creek	51.53	33	P	P	23 09 07.8 +1.0
SCRK				IAMB	IAMB	23 09 14.8
SCRK	comp=Z,11nm,0.7s			IAMB	IAMB	
SCRK	Sand Creek baz=276,SNR=17	51.53	33	P	P	23 09 07.1 +0.4
BMRM	Bremner River	51.60	37	P	P	23 09 08.0 +0.7
BMRM				IAMB	IAMB	23 09 43.9
BMRM	comp=Z,14nm,0.8s			IAMB	IAMB	

BMRM	Bremner River baz=278	51.60	37	P	P	23 09 07.0 -0.2
J26L	Joseph Creek	51.66	32	P	P	23 09 08.5 +0.8
J26L	Joseph Creek	51.66	32	P	P	23 09 08.2 +0.6
I26K	Coal Creek Min	51.75	31	P	P	23 09 08.9 +0.7
I26K	Coal Creek Min	51.75	31	P	P	23 09 07.8 -0.4
MENT	Mentasta	51.76	34	P	P	23 09 10.4 +2.0
MENT	Mentasta	51.76	34	P	P	23 09 09.5 +1.1
KAIM	Kayak Island	51.84	38	P	P	23 09 08.6 -0.4
KAIM				IAMB	IAMB	23 09 11.8 +0.8
L26K	Log Cabin Wild	51.92	34	P	P	23 09 11.5 +1.9
L26K	Log Cabin Wild	51.92	34	P	P	23 09 10.5 +0.9
E27K	Coleen River	52.11	28	P	P	23 09 12.2 +1.2
E27K				IAMB	IAMB	23 09 17.4
E27K	comp=Z,9.6nm,0.7s			IAMB	IAMB	
E27K	Coleen River baz=274,SNR=16	52.11	28	P	P	23 09 11.8 +0.8
BERG	Berg Lake	52.12	38	P	P	23 09 12.2 +1.1
BERG				IAMB	IAMB	23 10 07.6
BERG	comp=Z,26nm,1.0s			IAMB	IAMB	
M26K	Nabesna, AK	52.16	35	P	P	23 09 11.7 +0.3
M26K				IAMB	IAMB	23 09 35.8
M26K	comp=Z,24nm,1.4s			IAMB	IAMB	
M26K	Nabesna, AK baz=278	52.16	35	P	P	23 09 10.9 -0.5
G27K	Devon Strip	52.21	29	P	P	23 09 13.2 +1.5
G27K	Doyon Strip	52.21	29	P	P	23 09 12.7 +1.0
D27M	Malcolm River	52.26	26	P	P	23 09 13.4 +1.4
D27M	Malcolm River	52.26	26	P	P	23 09 12.4 +0.4
MCARA	McCarthy VSAT	52.30	36	P	P	23 09 13.5 +1.1
MCARA				IAMB	IAMB	23 10 03.1
MCARA	comp=Z,24nm,1.0s			IAMB	IAMB	
MCARA	McCarthy VSAT baz=274,SNR=5.2	52.30	36	P	P	23 09 12.3 0.0
H27K	Steamboat Moun	52.32	30	P	P	23 09 14.0 +1.5
H27K				IAMB	IAMB	23 09 37.5
H27K	comp=Z,10nm,0.9s			IAMB	IAMB	
H27K	Steamboat Moun baz=276,SNR=16	52.32	30	P	P	23 09 13.6 +1.1
CRQM	Cirque	52.34	37	P	P	23 09 13.9 +1.0
CRQM				IAMB	IAMB	23 10 04.0
CRQM	comp=Z,28nm,1.1s			IAMB	IAMB	
K27K	Chicken	52.36	33	P	P	23 09 14.8 +2.0
K27K				IAMB	IAMB	23 09 21.6
K27K	comp=Z,20nm,0.8s			IAMB	IAMB	
K27K	Chicken baz=277	52.36	33	P	P	23 09 13.3 +0.5
I27K	Kank River	52.36	31	P	P	23 09 13.2 +0.4
CRQE	Cirque	52.36	37	P	P	23 09 13.4 +0.4
CRQE				IAMB	IAMB	23 09 13.6 +0.7
BGLC	Bering Glacier	52.37	38	P	P	23 09 13.





Table with columns for station call letters, frequency, power, and other technical details. Includes stations like MFID, FFC, FFF, FFC, FFF, NC602, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like CCAC, BIR, PRAR, SPR3, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like RUE, LANS, LANS, LANS, etc.





16d 23h

Table with columns for station name, frequency, power, and other technical details. Includes stations like PPT2, TOO, CMSA, QLP, ARPS, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like SNA4, VNA3, VNA2, VNA1, etc.

918

Table with columns for station name, frequency, power, and other technical details. Includes stations like W13A, MDJ, SHPR, TUC, etc.



Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WESE, ISLZ, SSLS, SSHA, ISNN, WEBT, FALS, AKUT, AHB, AKBA, ZRO, AKGG, LVA, HAG, UNV, PSAA, MTBL, PS1A, MREP, MGOD, MAPS, SDPT, CNBA, O14K, O15K, O16K, M13K, N15K, M14K, L14K, N17K, O18K, M16K, M17K, K15K, J16K.

IDC 16:23:45:03.6:2.0,32.21Sx178.95W,h0km,mb3.7/4, mbtmp3.7/4, Error ellipse: s-maj=63.2km s-min=33.1km az=46.0, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ASAR, WRA, QSPA, SNA, FINES.

IDC 16:23:48:26.2:5.2,29.73Sx178.00W,h0km,mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=285.8km s-min=76.0km az=166.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ASAR, WRA, FINES.

IDC 17:00:03:06.1:3.3,31.75Sx177.56W,h0km,mb3.8/2, mbtmp3.9/3,ML3.8/1, Error ellipse: s-maj=77.0km s-min=37.6km az=115.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, ASAR, WRA, FINES.

CATAC 17:00:08:27.7:0.8,11.1N x 8.87W, h26km,11km, M3.1/20, MLV3.1/20, Error ellipse: s-maj=8.4km s-min=5.6km az=54.2, confirmed, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like COPN, SAPS, UNAN, SABB, MAS3, MAS3, MASN, MOMM, CNGA, CNGN, TEL3, WILN, MOM2, QUEN, HOYN, HERN, ILCN, PKGN, POLN, JAPAN.

Table with columns: JAPN, MORN, BOAB, BOAC, BOAD, BOAN, ACOM, ACON, SCLA. Includes time and resource data.

IDC 17:00:10:56.0:0.6,31.03Sx177.70W,h0km,mb4.4/13, mbtmp4.4/16,ML4.5/3,MS4.2/41, Error ellipse: s-maj=22.4km s-min=17.4km az=93.0

NEIC 17:00:11:02.0:1.1,30.80Sx177.77W,0.2,h35km,2km, mb4.9/27, Error ellipse: s-maj=22.2km s-min=15.0km az=92.7

GCMT 17:00:11:03:0.0:3.31:11Sx177.46W,0.02,h22km, MW5.0/87, Moment Tensor Solution. s48,c65; s87,c114; Durations: 0 Moment tensor: Scale 101eNm; Mr3.68t;19; Mw0.36t;13; Mw0.40t;12; Mw0.21t;27; Mw0.03t;10; Mw1.88t;19; Best double couple: M4.29900x1016 NP1=377.00000, s32.00000, s85.00000. NP2= 0.30000, s58.00000, s93.00000. Principal axes: T 4.1240, P1g77.0000, Azm283.0000; N 0.3500, P1g3.0000, Azm182.0000; P -4.4750, P1g13.0000, Azm91.0000; nstai1 refers to body waves, cutoff=40s. nstai2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 17:00:10:59.8:0.3,31.15Sx177.67W,0.07,h27km, n176,e2813/170,mb4.8/34,MS4.3/41.8C,Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GLKZ, RAO, RIZ, MXZ, WMGZ, PKGZ, HAZ, PUKZ, RUGZ, TWGZ, CNGZ, TKGZ, MWZ, WUZ, URZ.

IDC 16:23:45:03.6:2.0,32.21Sx178.95W,h0km,mb3.7/4, mbtmp3.7/4, Error ellipse: s-maj=63.2km s-min=33.1km az=46.0, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, RAGZ, MUGZ, SNGZ, MHGZ, BFZ, MSWZ, MSVZ, RPZ.

IDC 16:23:48:26.2:5.2,29.73Sx178.00W,h0km,mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=285.8km s-min=76.0km az=166.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like DZM, RAR, TBI, PPT2, PPT1, PPT.

IDC 17:00:03:06.1:3.3,31.75Sx177.56W,h0km,mb3.8/2, mbtmp3.9/3,ML3.8/1, Error ellipse: s-maj=77.0km s-min=37.6km az=115.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TBI, PPT2, PPT1, PPT, CTAO, STKA, STKA, TAEO.

IDC 17:00:08:27.7:0.8,11.1N x 8.87W, h26km,11km, M3.1/20, MLV3.1/20, Error ellipse: s-maj=8.4km s-min=5.6km az=54.2, confirmed, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AS31, DRV, WRR, WRAB, WRA, WRA, WRA, WRA, WBO.

Table with columns: WBO, FORT, SBA, SBA, SBA, VANDA, VANDA, JAY, CCD, CCD, FITZ, NWA0, CASY, CASY, CASY, GUM0, GUM0, BATI, QSPA, QSPA, QSPA, QSPA, MAW, MAW, LEM, SYLO, TROLL, JOW, SNA, SNA, SNA, SNA, VNA3, VNA2, COYC, VNA1, JUNU, PLCA, SHEM, LPIG, KRSR, PSI, PFO, PETK, PETK, NJ2, CMB, GSC, GSC, USRK, YBH, NVAR, NVAR, TPNV, V12A, V12A, X16A, X16A, X16A, CN2, CN2, U15A, WUAZ, WUAZ, KDAK, BNX, BNX, TXAR, TXAR, NNA, TPB01, PECS, TPB10, BBB, ANMO, TPB16, TPB04, CMAR, TPB06, HLD, ATAH, MNHN, MNHN.





EIDS	Eidsvold	29.78	250	P	P	00 59 29.6	+0.1
EIDS	Eidsvold	29.78	250	P	P	00 59 29.4	-0.1
ARMA	Armidale	30.41	240	P	P	00 59 35.4	+0.5
ARMA	Armidale	30.41	240	P	P	00 59 35.0	+0.5
CNB	Canberra Magne	33.85	233	P	P	01 00 04.3	+0.5
CTAC	Charters Tower	33.99	261	P	P	01 00 04.9	-0.3
CTAO	Charters Tower	33.99	261	P	P	01 00 05.0	0.0
CAN	Canberra	34.13	233	P	P	01 00 06.1	+0.1
CAN	Canberra	34.13	233	P	P	01 00 06.5	+0.5
PMG	Port Moresby	35.02	279	P	P	01 00 14.5	+1.0
PMG	Port Moresby	35.02	279	P	P	01 00 14.2	+0.7
43nm,0.8s	43nm,0.8s,slow=5.5,SNR=10						
43nm,0.8s	43nm,0.8s						
CMSA	Cobar Meteorol	35.62	241	P	P	01 00 18.5	+0.2
MTSU	Mount Surprise	37.66	270	P	P	01 00 21.3	0.0
CLP	Quilpie	36.04	249	P	P	01 00 27.2	+0.6
TOO	Toolangi	37.58	231	I	I	01 00 34.5	+0.3
TOO	Toolangi	37.58	231	I	I	01 00 35.4	
comp=Z,9.4nm,1.0s	comp=Z,9.4nm,1.0s						
MANU	Manus Island	37.63	291	P	P	01 00 36.1	+1.2
COEN	Coen	37.66	270	P	P	01 00 36.0	+0.9
COEN	Coen	37.66	270	P	P	01 00 36.2	+1.1
STKA	Stephens Creek	39.10	241	P	P	01 00 46.8	+0.4
STKA	Stephens Creek	39.10	241	P	P	01 00 46.8	+0.4
comp=Z,17nm,0.8s,baz=77,slow=8.8,SNR=27	comp=Z,17nm,0.8s						
comp=Z,17nm,0.8s	comp=Z,17nm,0.8s						
QIS	Mount Isa	40.20	259	P	P	01 00 55.7	+0.4
HIT	Hallett	41.61	240	P	P	01 01 05.7	-0.6
BBOO	Bucklebo	43.88	241	P	P	01 01 23.9	+0.1
BBOO	Bucklebo	43.88	241	P	P	01 01 23.7	-0.1
WRB	Warramunga Arr	45.02	259	I	I	01 01 32.3	-0.3
WRB	Warramunga Arr	45.02	259	I	I	01 01 33.6	
comp=Z,10nm,0.8s	comp=Z,10nm,0.8s						
WB0	Warramunga Arr	45.14	260	P	P	01 01 33.3	-0.4
WRA	Warramunga Arr	45.17	259	P	P	01 01 33.2	-0.6
WRA	Warramunga Arr	45.17	259	P	P	01 01 33.5	-0.3
comp=Z,15nm,0.6s,baz=94,slow=7.4,SNR=197	comp=Z,15nm,0.6s						
WRA	Warramunga Arr			PcP	PcP	01 03 00.6	+0.9
comp=Z,1.2nm,0.5s,baz=87,slow=3.5,SNR=4.4	comp=Z,1.2nm,0.5s						
WRA	Warramunga Arr			ScP	ScP	01 05 54.7	+3.0
comp=Z,1.3nm,0.8s,baz=92,slow=4.4,SNR=5.5	comp=Z,1.3nm,0.8s						
AS01	Alice Springs	45.28	254	P	P	01 01 34.1	-0.5
ASAR	Alice Springs	45.32	254	P	P	01 01 35.0	0.0
ASAR	Alice Springs	45.32	254	P	P	01 01 34.8	-0.1
comp=Z,50nm,0.8s,baz=86,slow=8.5,SNR=337	comp=Z,50nm,0.8s						
ASAR	Alice Springs			PcP	PcP	01 03 01.1	+0.9
comp=Z,2.6nm,0.6s,baz=100,slow=3.4,SNR=5.1	comp=Z,2.6nm,0.6s						
ASAR	Alice Springs			ScP	ScP	01 05 55.7	+3.5
comp=Z,1.2nm,0.6s,baz=96,slow=4.1,SNR=5.5	comp=Z,1.2nm,0.6s						
MTN	Mannton Dam	49.36	268	P	P	01 02 04.7	-0.2
FORT	Forrest	50.50	245	P	P	01 02 12.5	-0.5
FORT	Forrest	50.50	245	P	P	01 02 12.9	-0.1
KNRA	Kununurra	51.04	264	I	I	01 02 17.2	+0.1
KNRA	Kununurra	51.04	264	I	I	01 02 17.3	
comp=Z,22nm,0.8s	comp=Z,22nm,0.8s						
FAKI	Fak Fak	51.13	281	P	P	01 02 18.0	+0.2
FAKI	Fak Fak	51.13	281	I	I	01 02 54.9	
comp=Z,35nm,1.3s	comp=Z,35nm,1.3s						
FAKI	Fak Fak	51.13	281	P	P	01 02 17.8	-0.1
SOEI	Soe	56.63	270	P	P	01 02 56.4	0.0
PSA00	Pilbara Seismi	58.44	255	P	P	01 03 08.3	-0.1
PSA00	Pilbara Seismi	58.44	255	I	I	01 03 08.9	
comp=Z,2.1nm,0.8s	comp=Z,2.1nm,0.8s						
PSA00	Pilbara Seismi	58.44	255	P	P	01 03 08.3	-0.1
PSA00	Pilbara Seismi	58.44	255	I	I	01 03 48.4	
comp=Z,18nm,1.4s	comp=Z,18nm,1.4s						
MBWA	Marble Bar	58.61	256	P	P	01 03 09.4	-0.1
MBWA	Marble Bar	58.61	256	I	I	01 03 37.3	
comp=Z,42nm,1.4s	comp=Z,42nm,1.4s						
NWA0	Narrogen (SRO)	59.69	242	P	P	01 03 16.7	+0.2
SBA	Scott Base	60.42	184	P	P	01 03 20.3	+2.6
VNDA	Vanda	60.46	185	P	P	01 03 22.4	+1.7
comp=Z,2.1nm,0.8s,baz=94,slow=7.4,SNR=5.3	comp=Z,2.1nm,0.8s						
TOLZ	Toititoli	63.27	281	P	P	01 03 40.2	+0.3
TOLZ	Toititoli	63.27	281	I	I	01 03 41.1	
comp=Z,1.1nm,0.8s	comp=Z,1.1nm,0.8s						
MJAR	Matsushiro Arr	68.27	323	P	P	01 04 11.2	+0.8
comp=Z,8.0nm,0.7s,baz=156,slow=5.7,SNR=13	comp=Z,8.0nm,0.7s						
KIWB	Kanaga Island	69.50	0	P	P	01 04 18.4	+1.1
UJG	Unalaska Valle	70.20	268	P	P	01 04 20.2	+0.2
NIKH	Nikolski High	71.05	6	P	P	01 04 27.7	+1.3
comp=Z,189	comp=Z,189						
QSPA	South Pole Qui	72.11	180	P	P	01 04 33.7	+1.1
QSPA	South Pole Qui	72.11	180	I	I	01 04 34.6	
comp=Z,1.1nm,0.8s	comp=Z,1.1nm,0.8s						
QSPA	South Pole Qui	72.11	180	P	P	01 04 33.9	+1.3
comp=Z,8.6nm,0.6s,baz=324,slow=0.6,SNR=81	comp=Z,8.6nm,0.6s						
UNV	Unalaska Valle	72.16	7	P	P	01 04 33.2	+0.5
UNV	Unalaska Valle	72.16	7	P	P	01 04 34.1	+1.4
AKUT	Akutan	72.53	7	P	P	01 04 35.9	+1.1
SSLB	Suangleung	72.72	303	P	P	01 04 36.8	+0.1
TPUB	Ta-pu	72.75	302	P	P	01 04 36.9	0.0
FALS	False Pass	73.54	9	P	P	01 04 41.7	+1.1
comp=Z,194	comp=Z,194						
PETK	Petrovlovsk-	73.86	345	P	P	01 04 42.7	+0.2
comp=Z,13nm,0.8s,baz=110,slow=7.8,SNR=19	comp=Z,13nm,0.8s						
PETK	Petrovlovsk-			S	S	01 13 26.6	+3.2
comp=Z,1.4nm,0.5s,baz=231,slow=4.1,SNR=5.3	comp=Z,1.4nm,0.5s						
CHNA	Chernabura Isl	74.14	11	P	P	01 04 45.0	+1.1
SDPT	Sand Point	74.48	10	P	P	01 04 46.9	+1.1
comp=Z,197	comp=Z,197						
S12K	Black Hills	74.56	9	P	P	01 04 46.8	+0.5
S12K	Black Hills	74.56	9	P	P	01 04 47.0	+0.7
comp=Z,199	comp=Z,199						
P08K	Saint George I	74.58	5	P	P	01 04 47.5	+1.1
comp=Z,188	comp=Z,188						
KSRS	Korea Array	75.10	318	P	P	01 04 51.6	+1.9
comp=Z,1.4nm,0.7s,baz=127,slow=5.7,SNR=3.6	comp=Z,1.4nm,0.7s						
SPIA	Saint Paul Isl	75.10	4	P	P	01 04 50.6	+1.4
comp=Z,187	comp=Z,187						
S14K	Fog Glacier	75.53	10	P	P	01 04 52.5	+0.7
comp=Z,198	comp=Z,198						
CHIR	Chirikof Island	75.84	13	P	P	01 04 54.2	+0.9
SIJ	Sitkinak Island	76.53	13	P	P	01 05 00.1	+1.3
OHAK	Old Harbor	77.64	13	P	P	01 05 04.5	+1.4
comp=Z,204	comp=Z,204						
R18K	Karluk	77.70	13	P	P	01 05 05.0	+1.6
comp=Z,203	comp=Z,203						
Q17K	Contact Creek	78.07	12	P	P	01 05 06.4	+0.9
comp=Z,201	comp=Z,201						
Q14K	Tiguykaiuvet M	78.11	9	P	P	01 05 06.5	+1.0
comp=Z,196	comp=Z,196						
Q15K	Ungalikthiuk R	78.25	9	P	P	01 05 07.2	+0.9
comp=Z,197	comp=Z,197						
KDAK	Kodiak Island	78.31	13	P	P	01 05 07.4	+0.8
comp=Z,204	comp=Z,204						
Q16K	King Salmon	78.31	11	P	P	01 05 08.1	+1.5
P16K	Nushagak River	78.41	10	P	P	01 05 08.2	+1.1
comp=Z,199	comp=Z,199						
Q18K	Katmai Hardscr	78.59	12	P	P	01 05 09.3	+1.0
comp=Z,202	comp=Z,202						
M11K	Mekoryuk	78.62	6	P	P	01 05 09.8	+1.7
comp=Z,191	comp=Z,191						
N14K	Kuskokwak Cree	78.69	8	P	P	01 05 10.4	+1.9
N14K	Kuskokwak Cree	78.69	8	P	P	01 05 10.0	+1.4
comp=Z,195,SNR=5.6	comp=Z,195,SNR=5.6						
P17K	Kvichak River	78.83	11	P	P	01 05 10.5	+1.1
comp=Z,201	comp=Z,201						
Q16K	Kokwok River B	78.92	10	P	P	01 05 10.5	+0.6
Q16K	Kokwok River B	78.92	10	P	P	01 05 10.6	+0.7
comp=Z,199	comp=Z,199						
M13K	Dall Lake	78.96	7	P	P	01 05 11.3	+1.4
comp=Z,194	comp=Z,194						
I03D	Drain, OR	79.02	37	P	P	01 05 13.4	+2.7
I03D	Drain, OR	79.02	37	I	I	01 05 42.6	
comp=Z,18nm,1.4s	comp=Z,18nm,1.4s						
NVAR	Mina Array Bea	79.06	44	P	P	01 05 14.2	+2.8
NVAR	Mina Array Bea	79.06	44	P	P	01 05 14.1	+2.7
comp=Z,2.0nm,0.7s,baz=223,slow=8.6,SNR=13	comp=Z,2.0nm,0.7s						
Q20K	Shuyak Island	79.13	12	P	P	01 05 12.2	+1.4
comp=Z,204	comp=Z,204						
Q19K	Cape Douglas,	79.13	12	P	P	01 05 12.6	+1.6
comp=Z,203	comp=Z,203						

N15K	Kwethluk River	79.16	9	P	P	01 05 13.0	+1.9
N15K	Kwethluk River	79.16	9	P	P	01 05 12.7	+1.7
comp=Z,197	comp=Z,197						
P18K	Big Mountain,	79.24	12	P	P	01 05 12.7	+1.1
P18K	Big Mountain,	79.24	12	I	I	01 05 13.4	
comp=Z,11nm,0.8s	comp=Z,11nm,0.8s						
P18K	Big Mountain,	79.24	12	P	P	01 05 12.5	+0.9
comp=Z,202	comp=Z,202						
O17K	Kolliganek Bris	79.26	11	P	P	01 05 12.8	+1.2
M14K	Bethel	79.46	8	P	P	01 05 13.9	+1.3
comp=Z,195	comp=Z,195						
M15K	Kasigluk River	79.58	8	P	P	01 05 14.9	+1.7
comp=Z,185	comp=Z,185						
N16K	Nishlik Lake	79.65	9	P	P	01 05 15.3	+1.6
comp=Z,198	comp=Z,198						
O18K	Koktuh Hills	79.68	11	I	I	01 05 15.2	+1.4
O18K	Koktuh Hills	79.68	11	I	I	01 05 15.9	
comp=Z,21nm,0.9s	comp=Z,21nm,0.9s						
O18K	Koktuh Hills	79.68	11	P	P	01 05 15.1	+1.2
comp=Z,202	comp=Z,202						
P19K	Oil Pt	79.88	12	I	I	01 05 16.2	+1.3
P19K	Oil Pt	79.88	12	I	I	01 05 17.8	
comp=Z,12nm,0.9s	comp=Z,12nm,0.9s						
P19K	Oil Pt	79.88	12	P	P	01 05 16.7	+1.8
comp=Z,204	comp=Z,204						
L14K	Kuka Creek	79.94	7	P	P	01 05 17.9	+2.8
L14K	Kuka Creek	79.94	7	P	P	01 05 17.0	+1









Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like Limnos Island, Balikesir, Bur, BUHA, etc.

ISK 17 03:10:27.4, 35:30N, 24:28E, h10km, ML2.0/7
ATH 17 03:10:27.2, 35:20N, 24:26E, h8km, 1km, ML2.8/7, Manual
Solution by S.Liakopoulos First location: 2010/06/17
03:11:21, This location: 2020/10/27 08:50:47 ML
Amplitudes are expressed in micrometers. All distances
are expressed in degrees Latitude uncertainty: 1 km;
Longitude uncertainty: 0 km

THE 17 03:10:28.2, 35:15N, 24:30E, h0km, 2km, M2.5/8,
MLh2.5/8
ISC 17 03:10:27.8, 0.9, 35:30N, 0:03, 24:30E, 0:02, h10km, 8km,
n31, c078/49, Crete

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like Prines Rethymn, Souda, Chania, etc.

ISC 17 03:20:39.9, 0.8, 15:26S, 67:06E, h0km, mb3.9/12,
mbtmp3.9/12, MS3.6/6, Error ellipse: s-maj=27.6km
s-min=21.2km az=50.0

ISC 17 03:20:42.2, 0.8, 15:3S, 0:2, 67:1E, 0:2, h14km, n30,
c089/15, mb4.0/12, MS3.6/6, Mid-Indian Ridge

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like Diego Garcia, Souda, Chania, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like PSI, LSZ, LBTB, BOS, etc.

IDC 17 03:30:22.1, 1.1, 59:70S, 28:63W, h0km, mb3.7/4,
mbtmp3.7/5, ML3.7/1, MS3.7/3, Error ellipse: s-maj=37.6km
s-min=27.0km az=54.0

ISC 17 03:30:23.8, 0.8, 59:7S, 0:1, 28:6W, 0:2, h10km, n18,
c098/13, mb3.7/4, 5C, South Sandwich Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like VNA1, VNA3, VNA2, etc.

ISC 17 03:37:02.9, 1.3, 34:35N, 44:69E, h15km, 31km, ML2.9
TEH 17 03:37:02.9, 34:36N, 44:73E, h8km, 23km
ISC 17 03:37:03.8, 1.6, 34:39N, 0:05, 44:67E, 0:06, h11km, 14km,
n17, c069/12, Iraq

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like IKRK, IKRF, etc.

IDC 17 03:41:20.5, 1.0, 31:03S, 177:53W, h0km, mb3.9/5,
mbtmp3.9/5, MS3.4/4, Error ellipse: s-maj=36.5km
s-min=32.2km az=23.0

ISC 17 03:41:25.1, 1.0, 31:3S, 0:1, 177:7W, 0:2, h26km, n24,
c137/15, mb4.0/5, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like URZ, MSVF, DZM, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like H03S2, H03S1, H03S3, etc.

CATAC 17 03:44:14.0, 0.8, 11:14N, 8:87W, h26km, 9km, M3.3/25,
ML3.3/25, 13C-3D, Error ellipse: s-maj=9.2km
s-min=5.1km az=38.8, confirmed, Near coast of
Nicaragua

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like CRUN, EOP, SABS, etc.

IDC 17 03:45:03.0, 2.1, 31:27S, 177:17W, h0km, mb3.6/4,
mbtmp3.6/4, MS3.6/1, Error ellipse: s-maj=67.2km
s-min=36.8km az=45.0

ISC 17 03:45:04.1, 5.3, 31:3S, 0:2, 177:3W, 0:2, h35km, n7,
c131/61, mb3.6/4, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like URZ, ASAR, WRA, etc.

BUI 17 04:01:47.2, 7:01S, 129:42E, h185km, mb4.8/20, mb4.8/69
DJA 17 04:01:50.4, 0.1, 7:1S, 1:12E, h175km, 2km, M5.1/103,
mb5.3/03, mb5.6/55, MLV5.9/18, Mw(mb)5.0/55,
MwMwp4.7/1, Mwps.0/7

IDC 17 04:01:50.9, 0.5, 6:76S, 129:25E, h183km, mb4.5/29,
mbtmp5.0/33, MS3.7/15, Error ellipse: s-maj=12.8km
s-min=7.6km az=80.0

NEIC 17 04:01:50.4, 1.6, 6:79S, 0:06, 129:26E, 0:04, h172km, 3km,
mb5.0/99, Error ellipse: s-maj=9.6km s-min=6.2km
az=166.0

MOS 17 04:01:51.0, 0.9, 6:76S, 129:23E, h197km, mb5.1/45, Error
ellipse: s-maj=10.2km s-min=5.5km az=124.2
GCMT 17 04:01:52.4, 0.2, 6:86S, 0:0, 129:32E, 0:02, h182km, 2km,
Mw5.1/12, Mw2.0, Moment Tensor Solution - s37.043;
t112.163; Duration: 0 Moment tensor: Scale 10^16Nm;
Mn: 1.48, 1.2; Mw: 4.46; 1.3; Mw2.99; 1.4; Mw1.02; 1.0;
Mw5.1.92; 1.5; Mw2.57; 1.1; Best double couple:
Mw5.16500x10^16 NP1.323.00000, 863.00000,
lambda.156.00000, NP2.36.04.0000, 869.00000, lambda.29.00000,
Principal axes: T 5.3770, P1g35.0000, Azm285.0000; N
-0.4240, P1g55.0000, Azm97.0000; R -4.9530,
P1g4.0000, Azm192.0000; nstata refers to body waves,
cutoff=40s. nstata refers to surface waves, cutoff=50s.

Triangular moment-ratio function
ISC 17 04:01:51.1, 0.3, 6:89S, 0:0, 129:28E, 0:04, h180km, 2km,
h190km, pp-P, n543, c19362/594, mb4.9/155, 15C-5D, Banda
Sea

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SAUI, BNDI, etc.



Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other technical details. Includes stations like MTN Manton Dam, BATI Baunata, and various other locations.

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other technical details. Includes stations like MTSU Mount Surprise, STKI Sintang, and various other locations.

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other technical details. Includes stations like MLSI Meulaboh, MILA Mila, and various other locations.

17d 4h

Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like XLT, ASAJ, JKA, etc.

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Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like AAA, TDK, TDK, etc.

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Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like AB31, AB31, AB31, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like I28M Miner Creek, DAWY Dawson, MMAI Mount Meron Ar, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like NNC 17 04:14:06.2.6.2, 36.64Nk, 70.57E, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MATAL Matagalpa, CNCH Conchagua, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KARB, ERIK, LIA, CAVK, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SELS, TPGR, BRTR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WZC, RAGZ, RIGZ, etc.

IDC 17 04:49:40.2, 0.6, 31.855; 177.98W, h0km, mb4, 4/11, mtbpm4, 4/11, MS3.8/10, Error ellipse: s-maj=21.7km az=106.0

WEL 17 04:49:41.8, 0.8, 32.515; 177.8W, h1.5, h33km, M4, 7/15, mB4.97, ML5.1/17, MLV5.2/15, Mw(mB)4.2/7, Error ellipse: s-maj=20.5km s-min=3.1km az=104.9, confirmed

NEIC 17 04:49:43.1, 2.3, 31.95; 0.1x178.1W, 0.2, h10km, 1km, mb4, 8/21, Error ellipse: s-maj=25.8km s-min=17.8km az=110.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like MKAR Makanchi Array, ZALV Zalesovo Beam, KURBB Kurchatov Ara, etc.

IDC 17 05:18:52.41.4.23:03S:66.41W, h209km, 13km, mb3.6/10, bmtmp4.2/15, MS3.7/1, Error ellipse: s-maj=1.6, 7km, s-min=10.2km az=82.0

NEIC 17 05:18:53.2.1.8.23:08S:0.06:66.44W:0.08, h214km, 6km, mb4.3/70, ML4.4(GUC), Error ellipse: s-maj=10.9km, s-min=9.2km az=75.0

GUC 17 05:18:54.6.0.23:03S:66.85W, h263km, 9km, ML4.6 VAO 17 05:18:54.4.0.5.23:03S:66.46W, h240km, 6km, mb4.3 SJA 17 05:18:54.5.0.9.23:11S:66.67W, h225km, 7km, ML2.0, MW4.0

ISC 17 05:18:53.0.0.6.23:07S:0.04:66.51W:0.05, h220km, 6km, n226.1s21/252, mb4.3/39, 11C, Jujuy Province

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like SALTA, AF01, PB09, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like AC02 Maricunga, AC01 Pao de Azucar, AC06 Mina Casimiro, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like W50A, TKL Tuckaleechee C, SWET Sewanee, etc.

IDC 17 05:22:43.41.5.9:97S:117.72E, h0km, mb4.0/7, bmtmp3.9/10, ML3.6/3, Error ellipse: s-maj=52.6km, s-min=20.1km az=56.0

DJA 17 05:22:49.4.0.3.10:54.11E:1.1, h10km, M4.3/13, mb4.6/2, MLV4.2/13

ISC 17 05:22:47.2.0.8.9:76S:0.06:118.22E:0.04, h10km, n28.2s201/31, mb4.2/6, Sumbawa region









NIKH	Nikolski High baz=247	84.17	34	P	P	05 55 49.7	+0.4
KIBK	Kibwezi SNR=8.3	84.66	268	P	P	05 55 54.0	+1.1
AKT	Akhty	84.92	313	eP	pP	05 55 53.4	-0.1
AKT				ePP	pP	05 56 22.0	-1.4
AKT				eS		05 59 10.1	
AKT				eS	SKS	06 00 07.2	-0.4
POHA	comp=Z,270nm,0.9s			pmax			
POHA	Pohakulua	85.00	69	P	P	05 55 56.0	+1.4
SPIA	Saint Paul Isl	85.12	30	P	P	05 55 54.3	+0.3
PUH	Pauhi	85.22	70	P	P	05 55 57.0	+1.4
PO8K	Saint George I	85.23	31	P	P	05 55 55.2	+0.6
KNHH	Kane Nui o Ham	85.27	70	P	P	05 55 57.1	+1.4
MAK	Makhachkala	85.49	315	dIP	pP	05 55 55.9	-0.3
MAK				ePP	pp	05 56 21.1	-5.0
MAK				eSP	pP	05 56 32.6	-5.8
MAK				e		05 59 13.6	
MAK				ePPP	PPP	06 01 08.4	
MAK				eSS	SS	06 11 57.8	+1.3
MAK				eSSS	SSS	06 15 32.4	
MAK	comp=Z,91nm,0.8s			pmax			
MAK				MLR	MLR		
MAK	comp=Z,808nm,14.0s						
KMBO	Kilima Mbogo	85.63	270	P	P	05 55 59.1	+1.2
KMBO	Kilima Mbogo	85.63	270	iP	P	05 55 58.8	+0.9
UNV	Unalaska Valle	85.80	34	IAMB	IAMB	05 56 08.5	
UNV	Unalaska Valle	85.80	34	P	P	05 55 57.5	0.0
GNI	Garni	86.75	311	P	P	05 56 03.7	+1.0
GNI				IAMB	IAMB	05 56 49.8	
GNI	comp=Z,54nm,0.8s					05 56 03.4	+0.6
GNI	Garni	86.75	311	P	P	05 56 03.3	+0.6
GNI	Garni	86.75	311	iP	P	05 56 03.9	+1.2
GNI				pmax	pmax		
GAMB	Gambell	87.28	24	P	P	05 56 05.4	+0.9
GAMB	Gambell	87.28	24	P	P	05 56 04.8	+0.4
GAMB				baz=244			
TRLG	Trialeti	87.56	312	P	P	05 56 07.6	+1.0
FALS	False Pass	87.84	34	P	P	05 56 07.5	+0.2
BELG	Belogoroye	88.11	324	iP	P	05 56 08.5	-0.2
BELG				comp=Z,107nm,1.0s,baz=99,slow=0.8,SNR=26	SKS	06 06 26.4	-0.1
BELG	comp=Z,3.6nm,0.7s,baz=236,slow=3.2,SNR=1.3						
BELG	Belogoroye	88.11	324	dIP	P	05 56 08.3	-0.4
BELG				pmax			
BELG	comp=Z,8.0nm,1.0s						
LODK	Lodwar	88.19	274	P	P	05 56 10.3	+0.3
M11K	Mekoryuk	88.30	28	P	P	05 56 09.0	-0.3
NCK	Nalchik	88.39	314	iP	P	05 56 11.8	+1.5
NCK				pmax	pmax		
S12K	Black Hills	88.84	33	IAMB	IAMB	05 56 15.4	
S12K	Black Hills	88.84	33	P	P	05 56 12.0	-0.1
KBZ	Khabaz	88.94	314	P	P	05 56 12.6	-0.1
KBZ				comp=Z,21nm,0.9s,baz=149,slow=3.5,SNR=32	SKS	06 06 32.4	+0.6
KBZ	comp=Z,0.7nm,0.4s,baz=41,slow=11,SNR=1.7						
KBZ	Khabaz	88.94	314	ceP	P	05 56 12.2	-0.6
KIRV	Kirov	89.03	330	S	SKS	06 06 31.0	-0.7
KIRV	comp=Z,16nm,0.4s,baz=86,slow=19,SNR=5.6						
KIRV	Kirov	89.03	330	ceP	P	05 56 13.0	+0.2
SHA1	Shidzhatmaz	89.11	314	eP	P	05 56 12.6	-1.3
KVAR	Kislovatsk Arr	89.13	315	e	P	05 56 16.7	+2.9
KIV	Kislovodsk	89.14	315	P	P	05 56 13.9	0.0
KIV				IAMB	IAMB	05 56 20.6	
KIV	comp=Z,37nm,1.0s					05 56 14.7	+0.8
KIV	Kislovodsk	89.14	315	P	P	05 56 13.7	+0.2
KIV	Kislovodsk	89.14	315	eP	P	05 59 44.9	
KIV				e		06 06 32.7	
KIV	comp=Z,22nm,3.5s			pmax	pmax		
KIV	comp=Z,28nm,1.1s			pmax	pmax		
GOF	Gofitskoye	89.14	316	ceP	P	05 56 13.5	-0.2
MARD	Mardin	89.14	308	IAMB	IAMB	05 56 22.2	
TNA	Tin City	89.50	23	P	P	05 56 15.5	+0.6
K13K	Kusilvak Mount	89.54	27	IAMB	IAMB	05 56 20.0	
K13K	Kusilvak Mount	89.54	27	P	P	05 56 15.3	+0.1
SDPT	Sand Point	89.60	34	P	P	05 56 15.0	-0.6
SDPT	Sand Point	89.60	34	P	P	05 56 15.4	-0.2
M13K	Dall Lake	89.64	28	P	P	05 56 16.0	+0.3
M13K				IAMB	IAMB	05 56 21.0	
M13K	comp=Z,37nm,0.8s					05 56 15.9	+0.2
M13K	Dall Lake	89.64	28	P	P	05 56 15.9	+0.2
KOPT	Kop Dag	89.90	310	IAMB	IAMB	05 56 23.7	
CHNA	Chernabura Isl	89.95	34	P	P	05 56 17.2	0.0
F14K	Arctic Creek	90.08	23	P	P	05 56 18.4	+0.8
ANN	Nome	90.14	24	P	P	05 56 18.9	+0.9
L14K	Kuka Creek	90.24	28	P	P	05 56 19.0	+0.6
L14K	Kuka Creek	90.24	28	P	P	05 56 19.6	+1.1
N14K	Kuskokwak Cree	90.29	29	P	P	05 56 19.3	+0.6
O14K	Tiguykaiuet M	90.30	30	IAMB	IAMB	05 56 23.1	
O14K	Tiguykaiuet M	90.30	30	P	P	05 56 19.7	+0.9
J14K	Nanvaranac Lak	90.30	26	P	P	05 56 19.1	+0.5
S14K	Fog Glaciier	90.36	33	P	P	05 56 18.8	-0.5
M14K	Bethel	90.40	28	IAMB	IAMB	05 56 24.1	
M14K	Bethel	90.40	28	P	P	05 56 19.0	-0.2
TROLL	Troll, Antarti	90.65	196	iP	P	05 56 22.5	+2.0
LABN	Labinsk	90.66	315	eP	pP	05 56 19.9	-0.9
LABN				ePP	pP	05 56 48.6	-2.2
LABN				pmax	pmax		
F15K	North Star Dit	90.82	23	P	P	05 56 21.6	+0.5
G15K	Niukluk	90.82	24	P	P	05 56 21.1	0.0
L15K	Ungalak Mounta	90.89	28	P	P	05 56 21.5	0.0
VSLR	Vesolyoye	90.92	314	iP	pmax	05 56 23.5	+1.4
VSLR				pmax			
M15K	Kasigluk River	90.98	29	P	P	05 56 22.0	+1.0
O15K	Ungalikthiuk R	90.99	30	P	P	05 56 21.0	-0.1
O15K	Ungalikthiuk R	90.99	30	P	P	05 56 21.5	-0.5
ERBR	Yeremizino-Bor	91.04	316	eP	pP	05 56 21.8	-0.8
ERBR				ePP	pP	05 56 50.7	-1.9
ERBR				e		06 06 43.5	
ERBR				pmax	pmax		
K15K	Wolf Creek Mou	91.05	27	P	P	05 56 22.6	+0.3
K15K	Wolf Creek Mou	91.05	27	P	P	05 56 21.8	-0.4
N15K	Kwethluk River	91.12	29	IAMB	IAMB	05 56 27.1	
N15K	Kwethluk River	91.12	29	P	P	05 56 22.1	-0.5

SOCC	baz=254,SNR=5.9	91.17	314	eP	P	05 56 21.5	-1.7
SOC	Sochi			e		05 59 57.9	
SOC				eS	SKS	06 06 42.7	-2.1
SOC				eSS	SS	06 13 16.2	-2.8
SOC				eSSS	SSS	06 16 55.2	
SOC				pmax	pmax		
ASF	comp=Z,15nm,0.8s					05 56 24.8	+0.3
ASF	Jabal al Asfar	91.35	302	P	P	05 56 24.8	+0.3
ASF	comp=Z,14nm,0.9s,baz=187,slow=2.1,SNR=8.4						
VRH	Novokhopovsk	91.36	322	eP	P	05 56 21.9	-2.0
VRH				pmax	pmax		
C16K	comp=Z,15nm,1.4s					05 56 24.0	+0.1
C16K	Listrne Hills	91.44	21	P	P	05 56 24.0	+0.1
C16K	baz=250						
H16K	Elim	91.44	25	P	P	05 56 23.7	-0.2
G16K	Koyuk River	91.62	24	IAMB	IAMB	05 56 29.0	
G16K	Koyuk River	91.62	24	P	P	05 56 24.6	-0.2
G16K	comp=Z,27nm,0.8s						
R16K	Pilot Point	91.73	32	P	P	05 56 24.3	-1.1
R16K	baz=252,SNR=16						
J16K	Anvik River	91.74	26	IAMB	IAMB	05 56 29.9	
J16K	Anvik River	91.74	26	P	P	05 56 24.1	-1.3
J16K	comp=Z,254					05 56 28.0	+1.5
MREMI	Moremi	91.75	247	P	P	05 56 26.0	+0.2
L16K	Owhat River	91.82	28	P	P	05 56 29.9	
L16K				IAMB	IAMB		
L16K	comp=Z,22nm,0.8s					05 56 25.2	-0.6
L16K	Owhat River	91.82	28	P	P	05 56 25.2	-0.6
L16K	baz=255,SNR=7.8						
N16K	Nishlik Lake	91.84	29	P	P	05 56 24.8	-1.1
P16K	Nushagak River	91.86	31	IAMB	IAMB	05 56 30.8	
P16K	Nushagak River	91.86	31	P	P	05 56 24.9	-1.1
I17K	Unalakleet	91.87	25	P	P	05 56 24.7	-1.3
I17K							
M16K	Timber Creek	91.89	28	IAMB	IAMB	05 56 30.9	
M16K	Timber Creek	91.89	28	P	P	05 56 24.8	-1.3
M16K	comp=Z,30nm,1.0s						
O16K	Kokwok River B	91.95	30	IAMB	IAMB	05 56 31.6	
O16K	Kokwok River B	91.95	30	P	P	05 56 25.5	-1.0
O16K	comp=Z,22nm,0.9s						
D17K	Nook River	92.06	22	P	P	05 56 25.2	-1.5
D17K	Nook River	92.06	22	P	P	05 56 25.2	-1.5
D17K	baz=252,SNR=30						
MBAR	Mbarara	92.14	269	P	P	05 56 29.0	+0.4
MBAR	Mbarara	92.14	269	P	P	05 56 31.4	+2.8
RDOG	Red Dog Mine	92.23	21	P	P	05 56 25.1	-2.5
SNA4	Sanae	92.24	195	iP	P	05 56 29.3	+1.6
SNA4	comp=Z,322nm,0.6s						
SNA4	Sanae	92.24	195	P	P	05 56 29.4	+1.6
SNA4				IAMB	IAMB	05 56 30.6	
SNA4	comp=Z,16nm,0.7s					05 56 29.3	+1.6
SNA4	Sanae	92.24	195	P	P	05 56	

Table with columns: SKT, Skwentna, 95.57, 28, P, P, 05 56 41.1, -1.9. Includes entries like BRLL Bradley Lake, CAPN Capota Cook N, BRSE Bradley Lake S, etc.

Table with columns: APA, Elson Arroyo, 97.94, 26, P, P, 05 56 52.1, -1.6. Includes entries like ILAR Elson Arroyo, ILAR Elson Arroyo, ILAR Elson Arroyo, etc.

Table with columns: NACGM Naroch, 100.71, 324, eP, Pdif, 05 57 07.3, +1.1. Includes entries like YUK3 Moose Creek, F28M Old Crow, ARCES ARCES Array B 100.81, etc.







Table with columns for station call letters, name, frequency, and various signal quality metrics. Includes stations like INU, JGF, JGJ, MAJO, etc.

Table with columns for station call letters, name, frequency, and various signal quality metrics. Includes stations like SRIG, KSRS, TJX, KSAR, etc.

Table with columns for station call letters, name, frequency, and various signal quality metrics. Includes stations like PETK, PETK, CO06, etc.

17d 6h

Table with columns for station name, elevation, frequency, and other technical details. Includes stations like Nakonsritamara, Chirikof Island, Corbel Fontan, etc.

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Table with columns for station name, elevation, frequency, and other technical details. Includes stations like J05D, HEBO, H04D, UNM, etc.

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Table with columns for station name, elevation, frequency, and other technical details. Includes stations like KLR, N15K, MVU, etc.

E08A	Dider Farm, El	93.36	36	IAMS_20	IAMS_20	06 53 46.2
SRU	San Rafael Swe	93.40	46	P	P	06 15 18.4 -0.5
SRU	comp=Z,44nm,1.4s			IAMS_20	IAMS_20	06 52 16.8
SRU	comp=Z,8um,19.0s			IAMS_20	IAMS_20	06 52 16.8
SRU	San Rafael Swe	93.40	46	P	P	06 15 18.4 -0.5
SRU	comp=Z,44nm,1.4s			pmax	pmax	
TA01	Diego Arcena	93.42	116	IAMS_20	IAMS_20	06 48 14.5
PB09	IPOC Station P	93.44	118	P	P	06 15 18.1 -1.5
M17K	Hollita rve	93.46	9	P	P	06 15 19.0 +0.7
M17K	comp=Z,38nm,1.4s			IAMB	IAMB	06 15 30.6
MVCO	Mesa Verde	93.53	48	P	P	06 15 20.1 +0.5
ANMO	Albuquerque	93.53	51	P	P	06 15 19.4 -0.2
ANMO	Albuquerque	93.53	51	P	P	06 15 19.4 -0.2
ANMO	Albuquerque	93.53	51	P	P	06 15 19.2 -0.4
ANMO	comp=Z,24nm,1.4s			IAMS_20	IAMS_20	06 54 40.7
ANMO	Albuquerque	93.53	51	S	SKS	06 25 54.2 +0.5
ANMO	comp=Z,0.3nm,0.3s,baz=190,slow=6.6,SNR=1.6			ScS	ScS	06 26 30.4 +1.2
ANMO	comp=Z,0.4nm,0.6s,baz=76,slow=15,SNR=1.5			LR	LR	06 53 32.2
ANMO	Albuquerque	93.53	51	P	P	06 15 19.4 -0.2
ANMO	comp=Z,22nm,1.4s			pmax	pmax	
SEW	Seward	93.61	14	IAMS_20	IAMS_20	06 55 23.3
TA02	Huaquique	93.63	116	IAMS_20	IAMS_20	06 50 07.0
CTU	Camp Tracy	93.63	44	IAMS_20	IAMS_20	06 57 47.7
CTU	comp=Z,19um,18.0s			IAMS_20	IAMS_20	06 57 47.7
Q23K	Middleton Isla	93.66	15	IAMS_20	IAMS_20	06 55 02.8
PV05	Paradox Valley	93.66	47	P	P	06 15 20.1 -0.1
BJI	Beijing	93.68	315	P	P	06 15 20.9 +0.9
BJI	comp=Z,750nm,9.8s			SS	SS	06 32 44.3 -2.8
BJI	comp=Z,1um,21.1s			pmax	pmax	
BJI	comp=Z,1um,19.1s			LR	LR	
BJI	comp=Z,3um,19.3s			LR	LR	
PB01	IPOC Station P	93.68	117	IAMS_20	IAMS_20	06 50 11.4
HVU	Hansel Valley	93.70	43	IAMB	IAMB	06 15 26.5
SAND	Sanderson	93.73	57	P	P	06 15 20.2 -0.3
JLU	Jordanella	93.75	44	IAMB	IAMB	06 15 51.0
K15K	Wolf Creek Mook	93.81	7	IAMB	IAMB	06 15 26.1
K15K	comp=Z,54nm,1.6s			IAMS_20	IAMS_20	06 58 44.2
D08A	Wollman Farm,	93.82	36	IAMB	IAMB	06 15 26.0
SLKM	Skilak Lake	93.83	13	P	P	06 15 19.3 -0.8
SLKM	comp=Z,40nm,1.2s			IAMB	IAMB	06 15 31.4
SLKM	comp=Z,10um,19.0s			IAMS_20	IAMS_20	06 55 45.1
E09A	Wood Farm, Sta	93.84	37	IAMB	IAMB	06 15 26.4
E09A	comp=Z,58nm,1.4s			IAMS_20	IAMS_20	06 54 10.9
PV17	East Wray Mesa	93.87	47	P	P	06 15 20.2 -0.9
PV19	Morning Glory	93.87	47	P	P	06 15 20.2 -0.9
PV19	comp=Z,55nm,1.4s			IAMB	IAMB	06 15 27.2
PV10	Paradox Valley	93.88	47	P	P	06 15 20.4 -0.8
PV10	comp=Z,29nm,1.3s			IAMB	IAMB	06 15 26.2
PV18	Skein Mesa, Pa	93.88	47	P	P	06 15 20.7 -0.5
PV18	comp=Z,48nm,1.5s			IAMB	IAMB	06 15 45.2
P18A	Preston Nutter	93.88	46	IAMS_20	IAMS_20	06 57 54.6
CAPN	Captain Cook N	93.89	13	IAMS_20	IAMS_20	06 55 42.7
HLID	Halley	93.90	40	IAMS_20	IAMS_20	06 57 03.7
HLID	comp=Z,15um,18.0s			IAMS_20	IAMS_20	06 57 03.7
O22K	Cooper Landing	93.90	13	IAMS_20	IAMS_20	06 55 46.0
PV20	West Nyswonger	93.90	47	P	P	06 15 20.5 -0.7
PV20	comp=Z,42nm,1.3s			IAMB	IAMB	06 15 27.3
PV16	Nyswonger Mesa	93.92	47	P	P	06 15 20.1 -1.3
PV11	David Mesa, Pa	93.94	47	IAMB	IAMB	06 15 45.4
P23K	Montague Islan	93.94	15	IAMS_20	IAMS_20	06 55 19.1
MA2	Magadan	93.97	344	IAMS_20	IAMS_20	06 53 14.1
MA2	comp=Z,8um,20.0s			LR	LR	06 52 43.6
PV02	Paradox Valley	93.97	47	IAMB	IAMB	06 15 49.9
PV12	Saucer Basin,	93.99	47	IAMB	IAMB	06 15 27.8
PLID	Pearl Lake	94.02	39	IAMB	IAMB	06 15 27.5
PLID	comp=Z,53nm,1.3s			IAMB	IAMB	06 15 27.5
ATAH	Atahualpa	94.04	101	LR	LR	06 48 50.6
J14K	Nanvaranak Lak	94.05	6	IAMS_20	IAMS_20	06 55 09.5
CMAR	Chiang Mai Arr	94.06	289	P	P	06 15 21.5 -0.7
CMAR	comp=Z,0.8nm,0.3s,baz=126,slow=4.7,SNR=6.7			PP	PP	06 19 23.4 +1.3
CMAR	comp=Z,1.5nm,0.3s,baz=120,slow=6.9,SNR=6.5			PP	PP	06 19 07.1 -1.7
CMAR	comp=Z,1.1nm,0.3s,baz=344,slow=20,SNR=2.2			SKS	SKS	06 25 58.8 +1.9
CMAR	comp=Z,3um,19.3s,baz=130,slow=38			LR	LR	07 00 53.1
CMAR	Chiang Mai Arr	94.06	289	P	P	06 15 21.5 -0.7
TCUT	Toone Canyon	94.09	44	IAMB	IAMB	06 15 46.4
TCUT	comp=Z,12um,19.0s			IAMS_20	IAMS_20	06 55 20.0
BSUT	Blindstream Ca	94.12	45	P	P	06 15 21.6 -0.8
BSUT	comp=Z,11um,18.0s			IAMS_20	IAMS_20	06 58 34.9
PV22	Blue Mesa, Par	94.13	47	P	P	06 15 20.5 -1.8
PV07	Paradox Valley	94.16	47	P	P	06 15 19.9 -2.5
PB11	IPOC Station P	94.28	116	IAMB	IAMB	06 15 23.2 -0.3
PB11	comp=Z,34nm,0.9s			IAMS_20	IAMS_20	06 50 55.4
HWUT	Hardware Ranch	94.30	43	P	P	06 15 21.8 -1.2
HWUT	comp=Z,19um,19.0s			IAMS_20	IAMS_20	06 53 58.5
M19K	Big River Lodg	94.39	11	IAMS_20	IAMS_20	06 58 34.9
HEH	HeiHe	94.45	328	eP	eP	06 15 24.3 +1.1
HEH	comp=Z,13nm,0.7s			pp	pp	06 15 32.3 -1.1
HEH	comp=Z,2um,9.7s			SKS	SKS	06 25 57.0 -0.5
HEH	comp=Z,5um,19.0s			ScS	ScS	06 26 38.0 +2.3
HEH	comp=Z,2um,16.4s			pmax	pmax	
HEH	comp=Z,9um,18.6s			pmax	pmax	
PB08	IPOC Station P	94.45	116	IAMS_20	IAMS_20	06 49 17.8
V35K	Ketchikan	94.46	24	IAMS_20	IAMS_20	06 54 18.5
HIN	Hinchinbrook I	94.50	15	IAMS_20	IAMS_20	06 55 33.8
KMI	Kunming	94.53	296	P	P	06 15 23.3 -1.1
KMI	comp=Z,12um,20.0s			PP	PP	06 19 13.3 +0.7
KMI	comp=Z,2um,19.8s			S	S	06 26 33.8 -3.1

KMI	SS	SS	06 33 00.6 +0.4			
KMI	SS	SS	06 33 00.6 +0.4			
KMI	comp=Z,1um,11.0s	LR	LR			
KMI	comp=Z,5um,19.5s	LR	LR			
KMI	comp=Z,6um,17.9s	LR	LR			
PWL	Port Wells	94.53	14	IAMS_20	IAMS_20	06 55 50.5
KAIM	Kayak Island	94.55	16	IAMS_20	IAMS_20	06 55 28.3
L19K	White Mountain	94.58	10	IAMS_20	IAMS_20	06 58 48.9
K17K	Iditarod	94.60	9	IAMS_20	IAMS_20	06 57 18.3
SUA	Susitna One	94.61	12	IAMS_20	IAMS_20	06 56 06.7
TIY	Taiyuan	94.62	312	P	P	06 15 23.8 -0.6
TIY	comp=Z,1um,11.0s	P	SKS	SKS	06 25 58.5 -0.7	
TIY	comp=Z,3um,22.7s	LR	LR	LR	LR	
TIY	comp=Z,4um,19.2s	LR	LR	LR	LR	
CO9A	Chrisman Ranch	94.65	35	P	P	06 15 23.8 -0.4
GO01	Chusmiza	94.69	116	IAMS_20	IAMS_20	06 51 00.2
EYAK	Cordova Ski Ar	94.80	15	IAMS_20	IAMS_20	06 55 40.8
GLI	Glacier Island	94.80	14	IAMS_20	IAMS_20	06 55 46.9
FID	Port Fidalgo	94.82	15	IAMS_20	IAMS_20	06 55 34.1
SUCK	Suckling Hills	94.83	16	IAMS_20	IAMS_20	06 55 28.8
XAN	Xi'an	94.85	307	P	P	06 15 25.5 0.0
XAN	comp=Z,13nm,1.4s	P	SKS	SKS	06 26 19.9 +0.3	
XAN	comp=Z,2um,6.4s	S	S	S	06 26 39.3 +0.3	
XAN	comp=Z,2um,17.0s	pmax	pmax	pmax	pmax	
XAN	comp=Z,6um,18.0s	LR	LR	LR	LR	
LLBL	Lillooet	94.86	32	IAMS_20	IAMS_20	06 56 06.5
J16K	Anvik River	94.87	8	IAMS_20	IAMS_20	06 59 17.5
SKT	Skwentna	94.95	12	IAMS_20	IAMS_20	06 58 29.6
M22K	Pelican	95.00	13	IAMS_20	IAMS_20	06 56 17.9
S31K	Willow	95.08	21	IAMS_20	IAMS_20	06 58 23.4
J17K	VABM Dome	95.16	8	IAMS_20	IAMS_20	06 55 56.1
PB16	IPOC Station P	95.21	115	P	P	06 15 27.6 -0.7
PB16	comp=Z,59nm,1.6s	IAMB	IAMB	IAMS_20	IAMS_20	06 50 46.9
PB16	comp=Z,8um,19.0s	IAMS_20	IAMS_20	IAMS_20	IAMS_20	06 57 41.4
DIV	Divide	95.32	15	IAMS_20	IAMS_20	06 57 41.4
MESA	MESA	95.38	17	IAMS_20	IAMS_20	06 55 34.1
WAX	Waxell Ridge	95.39	16	IAMS_20	IAMS_20	06 55 26.4
YK2U	Yakutat	95.39	18	IAMS_20	IAMS_20	06 53 16.7
BMRM	Bremner River	95.43	15	IAMS_20	IAMS_20	06 56 09.6
I17K	Unalakleet	95.45	7	IAMS_20	IAMS_20	06 59 34.7
MSTX	Muleshoe	95.49	54	IAMS_20	IAMS_20	06 54 41.6
U35K	Hyder	95.49	25	IAMS_20	IAMS_20	06 54 49.5
NEW	Newport	95.53	36	LR	LR	06 51 43.9
KV7X	Kingsville	95.55	61	IAMS_20	IAMS_20	06 57 14.8
CUT	Chulitna	95.57	12	IAMS_20	IAMS_20	06 56 28.1
MCMT	McKenzie Canyo	95.57	40	P	P	06 15 29.3 +0.5
YAH	Yahstse	95.59	17	IAMS_20	IAMS_20	06 55 41.6
KLU	Klutina	95.61	15	IAMS_20	IAMS_20	06 56 01.2
ISLE	Juniper Island	95.65	17	IAMS_20	IAMS_20	06 55 44.3
PB18	Visviri	95.65	114	IAMS_20	IAMS_20	06 54 29.8
TGL	Tana Glacier	95.66	16	IAMS_20	IAMS_20	06 56 04.6
ANM	Nome	95.68	5	IAMS_20	IAMS_20	06 56 00.6
PPLA	Purkayville	95.69	11	IAMS_20	IAMS_20	06 59 17.1
PCA	Pinnacle	95.74	18	IAMS_20	IAMS_20	06 53 10.8
SDCO	Great Sand Dun	95.77	49	IAMS_20	IAMS_20	06 56 41.9
BCPM	Bancas Point	95.78	18	IAMS_20	IAMS_20	06 54 45.8
TABL	Table Mountain	95.81	17	IAMS_20	IAMS_20	06 55 39.5
K20K	Telida	95.82	10	IAMB	IAMB	06 15 43.7
TPAW	Teton Pass	95.82	42	IAMB	IAMB	06 15 35.6
GRNC	Granite Creek	95.90	17	IAMS_20	IAMS_20	06 55 42.1
SNOW	Snow King Moun	95.92	42	P	P	06 15 30.4 0.0
SNOW	comp=Z,23nm,1.1s	IAMB	IAMB	IAMS_20	IAMS_20	06 15 54.7
VRDI	Verde Repeater	95.93	16	IAMS_20	IAMS_20	06 56 24.7
N25K	Chitina, Valde	9				

Table with columns for station ID, name, elevation, and various forecast metrics (LR, P, Pdif, S, SKS, SCS, Ss, pmax, etc.) for stations like TNCH, BOAB, NEA2, BTO, etc.

Table with columns for station ID, name, elevation, and various forecast metrics (LR, P, Pdif, S, SKS, SCS, Ss, pmax, etc.) for stations like MMPY, I28M, LAO, J30M, etc.

Table with columns for station ID, name, elevation, and various forecast metrics (LR, P, Pdif, S, SKS, SCS, Ss, pmax, etc.) for stations like FFC, N41A, Y49A, C36M, etc.

MAKZ	Makanchi	118.73 310	PKIKP	PKPdf	06 20 49.9	-1.5	RAYN	Ar Rayn	141.32 270	IAMS_20	IAMS_20	07 24 27.9	EIL	Elat	152.08 276	PKP	PKPdf	06 21 52.8	+0.3	
MAKZ	comp=Z,5um,21.0s		MLR	MLR			KLMM	Klimovskoe	141.49 332	ePKIKP	PKPdf	06 21 32.7	-1.1	EIL	comp=Z,2.5nm,0.6s,baz=90,slow=1.6,SNR=6.1	PKPbc	PKPbc	06 21 59.0	-0.1	
ZAAO	Zalesovo Array	118.79 318	PKPdf	PKIKP	06 20 52.4	+1.1	KLMM	Klimovskoe		SS	SS	06 43 09.7	+3.1	MMAI	comp=Z,2.1nm,0.7s,baz=340,slow=3.4,SNR=21	PKPbc	PKIKP	06 22 00.1	+0.5	
ZALV	Zalesovo Beam	118.79 318	PKPdf	PKPdf	06 20 51.0	-0.2	KLMM	Klimovskoe		SSS	SSS	06 48 23.6		HOMB	comp=Z,9.9nm,0.5s,baz=67,slow=2.8,SNR=14	PKPbc	PKIKP	06 21 53.6	+1.6	
ZBVO	Williamsburg	119.27 53	IAMS_20	IAMS_20	07 09 36.0		KLMM	comp=Z,5.3nm,1.1s		MLR	MLR			BORU	152.39 343	iP	PKPdf	06 21 51.5	-0.6	
N62A	comp=Z,1.1um,18.0s	119.40 58	IAMS_20	IAMS_20	07 09 04.0		AKT	Akty	142.47 299	ePKHKP	PKPpre	06 21 29.4		SUU	152.60 333	ePKP	PKPdf	06 21 51.7	-0.7	
SHLS	Shalkode	119.45 305	ePKIKP	PKPdf	06 20 51.9	-1.1	AKT			ePPP	PPP	06 24 38.8		SUU		eSS	SS	06 45 16.8	+4.7	
SHLS	Shalkode	119.45 305	ePKP	PKPdf	06 20 52.0	-1.1	AKT			pmax	pmax	06 27 50.5		SUU	comp=Z,6um,24.5s	eL	L	07 24 24.4		
UZB	Uzlynbulak	119.76 305	ePKIKP	PKPdf	06 20 53.2	-0.4	MAK	MAK	142.58 301	ePKHKP	PKPpre	06 21 31.4		SUU	152.60 333	PKPbc	PKIKP	06 22 00.3	+0.6	
UZB	Uzlynbulak	119.76 305	ePKP	PKPdf	06 20 53.2	-0.4	MAK	Makhachkala		ePPP	PPP	06 27 51.7		SUU	comp=Z,6um,19.0s	IAMS_20	IAMS_20	07 36 50.3		
ILAM	Iz Lapin Mar	120.07 90	IAMS_20	IAMS_20	07 12 37.4		MAK			eSS	SS	06 28 47.6		ONAU	152.79 349	iP	PKPdf	06 21 51.7	-0.9	
TRQ	Mont Tremblant	120.08 51	IAMS_20	IAMS_20	07 09 59.2		MAK			eSSS	SSS	06 43 10.2	-1.1	BLEU	153.01 344	iP	PKPdf	06 21 51.8	-1.1	
PKPS	Kokpek	120.08 305	ePKIKP	PKPdf	06 20 53.7	-0.5	MAK			eSSS	SSS	06 48 32.2		FALKEN	153.03 348	iP	PKPdf	06 21 51.7	-1.3	
PKPS	Kokpek	120.08 305	ePKP	PKPdf	06 20 53.7	-0.5	MAK			pmax	pmax			KIRS	153.19 286	iP	PKIKP	06 22 01.9	+0.4	
SATY	Saty	120.17 305	ePKIKP	PKPdf	06 20 53.9	-0.5	GNI	Garni	144.78 297	PKPdf	PKPab	06 21 39.4	-0.1	DEL	153.30 346	iP	PKPdf	06 21 52.6	-0.8	
SATY	Saty	120.17 305	ePKP	PKPdf	06 20 54.0	-0.5	GNI	Garni	144.78 297	PKPdf	PKPab	06 21 39.6	+0.2	BRTR	153.21 298	PKPbc	PKPbc	06 22 01.7	-0.1	
FRNY	Flat Rock	120.38 53	IAMS_20	IAMS_20	07 13 45.5		GNI	Garni	144.78 297	ePKIKP	PKPab	06 21 39.0	-0.5	BRTR	153.31 298	PKPbc	PKPbc	06 22 01.9	+0.1	
MNTQ	Montreal, Queb	120.53 52	IAMS_20	IAMS_20	07 07 33.22		GNI	Novokhopovskoy	144.80 316	ePKIKP	PKPab	06 21 38.1	-0.8	ANTO	153.93 298	IAMS_20	IAMS_20	06 22 03.9	+0.9	
ILON	Ilgoolik, Nuna	120.55 24	PKIKP	PKPdf	06 20 55.1	+0.9	VRH	VRH		pmax	pmax			ANTO	153.93 298	IAMS_20	IAMS_20	07 33 07.9		
ILON	comp=Z,10um,18.0s		IAMS_20	IAMS_20	07 14 29.1		MOS	Moscow	145.08 325	iPKIKP	PKPab	06 21 37.6	-2.1	ANTO	comp=Z,4um,20.0s					
TDK	Taldyqorghan	120.67 307	ePKIKP	PKPdf	06 20 54.9	-0.3	MOS			pmax	pmax			SORM	153.94 281	iP	PKIKP	06 22 06.6	+3.6	
TDK	Taldyqorghan	120.67 307	ePKP	PKPdf	06 20 54.9	-0.3	MOS	comp=Z,91nm,1.0s		MLR	MLR			CSS	153.95 287	IAMS_20	IAMS_20	07 34 52.6		
SEM	Semipalatinsk	120.72 313	ePKIKP	PKPdf	06 20 54.9	-0.4	MOS	comp=Z,8um,21.0s		MLR	MLR			LUNU	154.17 346	iP	PKPdf	06 21 53.6	-1.0	
SEM	Arhtary	120.87 306	ePKP	PKPdf	06 20 54.9	-0.4	GOF	Golitskoye	145.53 306	ePKIKP	PKPdf	06 21 40.5	-0.9	KIS	154.21 316	iPKP	PKPdf	06 21 52.0	-3.1	
KSH	Kashi	120.96 300	PKP	PKIKP	06 20 58.4	+2.2	KBZ	Khabaz	145.84 303	PKPbc	PKPbc	06 21 42.2	+0.2	KIS	154.24 316	iP	PKP	06 25 44.0	-8.3	
KSH			PP	PP	06 22 27.5	+1.8	KBZ	Khabaz	145.84 303	ePKP2	PKPdf	06 21 42.4	+0.4	KIS		eL	LQM	07 34 49.0		
KSH	comp=Z,730nm,17.2s		LR	LR			KBZ	comp=Z,26nm,0.9s,baz=82,slow=4.0,SNR=26		pmax	pmax			KIS	comp=Z,1um,20.5s		LRM	MLR	07 37 05.0	
KSH	comp=Z,4um,19.2s		LR	LR			FINES	FINES Array B	145.84 340	PKPbc	PKPdf	06 21 40.9	-0.5	KIS	comp=Z,2um,18.0s		LRM	MLR	06 21 52.0	-3.1
KSH	comp=Z,2um,22.0s		LR	LR			FINES	FINES Array B	145.84 340	PKPbc	PKPdf	06 21 41.0	-0.4	KIS	154.24 316	iPKP	PKPdf	06 21 53.0	-2.1	
KSH	comp=Z,4um,20.3s		LR	LR			FINES	FINES Array B	145.84 340	PKP2	PKPdf	06 21 40.9	-0.5	MILM	154.28 316	ePKP	PKPdf	06 25 43.0	-1.0	
MDOK	Medeo	121.15 305	ePKIKP	PKPdf	06 20 55.4	-0.9	FINES	FINES Array B	145.84 340	PKP2	PKPdf	06 21 41.5	-0.2	MILM	154.28 316	ePKP	PKPdf	06 32 40.0		
MDOK	Medeo	121.15 305	ePKP	PKPdf	06 20 55.5	-0.9	LPSR	Galich Yara	145.87 320	ePKP2	PKPdf	06 21 41.5	-0.2	MILM		eL	L	07 21 08.0		
KURK	Kurchatov	121.80 313	PKP	PKIKP	06 20 56.3	-0.8	LPSR	comp=Z,100nm,0.8s		MLR	MLR			MILM		LRM	MLR	07 34 18.0		
KURK	Kurchatov	121.80 313	ePKIKP	PKPdf	06 20 56.8	-0.3	LPSR	comp=Z,4um,19.0s		MLR	MLR			MILM	154.28 316	iPKP	PKPab	06 22 15.7	-1.7	
KURK	comp=Z,23nm,1.7s		pmax	pmax			OBN	Obninsk	145.92 325	IAMS_20	IAMS_20	06 21 41.8	+0.1	MILM	154.28 316	ePKIKP	PKPdf	06 21 53.0	-2.1	
KUU	Kurty	121.83 305	ePKIKP	PKPdf	06 20 57.0	-0.4	OBN	Obninsk	145.92 325	PKPbc	PKPdf	06 21 41.7	0.0	MILM	154.32 347	iP	PKPdf	06 21 55.1	+0.2	
KUU	Kurty	121.83 305	ePKP	PKPdf	06 20 57.0	-0.4	OBN	Obninsk	145.92 325	PKPbc	PKPdf	06 21 41.7	0.0	ACRG	154.68 173	IAMS_20	IAMS_20	07 32 55.3		
KURBB	Kurchatov Arra	121.84 313	PKP	PKPdf	06 20 56.0	-1.2	OBN	Obninsk	145.92 325	ePKP2	PKPdf	06 21 41.7	0.0	DBIC	154.85 162	PKPbc	PKPbc	06 22 04.4	-1.2	
KURBB	comp=Z,4.0nm,0.7s,baz=81,slow=1.9,SNR=62		PKP	PKPdf	06 20 56.0	-1.2	OBN	Obninsk	145.92 325	ePKP2	PKPdf	06 21 41.7	0.0	DBIC	154.85 162	PKP	PKPbc	06 21 56.1	-0.8	
KDWAN	Kaudwene	121.97 204	PKP	PKPdf	06 20 57.6	-1.0	OBN	comp=Z,152nm,1.0s		pmax	pmax			DBIC	comp=Z,7.4nm,1.0s,baz=159,slow=1.9,SNR=4.0	PKPbc	PKPbc	06 22 08.3	-0.6	
POIN	Pond Inlet	122.05 20	PKIKP	PKP	06 20 59.5	+2.4	KVAR	Kislovodsk Arra	145.95 304	PKPbc	PKPdf	06 21 42.4	0.0	SSRD	154.85 162	PKP	PKPbc	06 21 56.1	-0.8	
AAK	Ala-Archa	122.84 303	PKIKP	PKIKP	06 21 00.4	+0.6	KVAR	Kislovodsk	145.95 304	PKPbc	PKPdf	06 21 42.7	+0.4	RGN	155.20 345	IAMS_20	IAMS_20	07 40 57.4		
AAK	Ala-Archa	122.84 303	ePKIKP	PKPab	06 21 00.4	+0.6	KIV	Kislovodsk	145.96 304	PKP2	PKPab	06 21 40.5	0.5	RGN	155.20 345	ePKP	PKP	06 25 53.0	-3.8	
AAK	comp=Z,14nm,1.3s		pmax	pmax			KIV	Kislovodsk	145.96 304	iP	PKPab	06 21 44.2	+0.6	VLDR	155.24 314	iPKP	PKPab	06 22 20.7	-0.9	
SGDS	Sogindya	122.94 304	ePKP	PKPdf	06 20 59.1	-0.5	KIV	Kislovodsk	145.96 304	ePKP2	PKPab	06 24 59.3	+0.2	GKP	155.30 339	ePKP	PKPdf	06 21 55.8	-0.5	
LMQD	La Malbaie	123.20 51	IAMS_20	IAMS_20	07 18 53.7		KIV	Kislovodsk	145.96 304	eSS	SS	06 43 50.9	-8.9	GKP		ePP	PP	06 25 52.8	-4.8	
PKME	Peaks Kenny Pk	123.44 54	IAMS_20	IAMS_20	07 12 08.5		KARS	Kars	146.03 298	PKPbc	PKPdf	06 21 42.7	+0.1	EKA	155.30 339	PKPbc	PKPab	06 22 21.0	-0.4	
E62A	Clayton Lake	123.56 52	IAMS_20	IAMS_20	07 12 25.4		KARS	Kars	146.03 298	PKP2	PKPdf	06 21 42.7	+0.1	EKA	155.30 339	PKPbc	PKPab	06 22 21.0	-0.4	
BTL5	Baital	123.69 306	ePKIKP	PKPdf	06 21 00.7	-0.2	VORR	Voronozh	146.09 318	ePKIKP	PKPdf	06 21 41.2	-0.9	EKA	155.31 318	IAMS_20	IAMS_20	07 41 02.4		
BTL5	Baital	123.69 306	ePKP	PKPdf	06 21 00.7	-0.2	GEVA	Gevaz	146.11 294	PKPbc	PKPdf	06 21 43.8	-0.1	TPGR	155.47 312	iP	PKPab	06 22 19.4	-3.3	
D62A	Allapoint, All	123.96 51	IAMS_20	IAMS_20	07 13 32.0		VSR	Storozhevoye	146.29 318	ePKIKP	PKPdf	06 21 40.9	-1.6	CFR	155.51 313	iPKP	PKPab	06 22 10.2	-1.3	
TULEG	Thule	124.18 16	IAMS_20	IAMS_20	07 17 18.3		VSR	comp=Z,100nm,0.8s		pmax	pmax			MBO	155.63 128	IAMS_20	IAMS_20	07 43 43.2		
G65A	Princeton	124.63 54	IAMS_20	IAMS_20	07 13 29.9		VORR	comp=Z,80nm,0.9s		pmax	pmax			BORA	155.69 299	IAMS_20	IAMS_20	07 34 13.4		
KBU	Kabul Universi	124.83 293	PKP	PKPdf	06 21 03.1	-0.6	VORD	Divnogoye	146.31 317	ePKP2	PKPdf	06 21 42.4	-0.1	TESR	155.78 317	iPKP	PKPab	06 22 11.2	-1.3	
KBL	Kabul	124.90 293	PKIKP	PKP	06 21 03.9	0.0	VORD	comp=Z,60nm,0.8s		pmax	pmax			HARR	155.86 312	iPKP	PKPab	06 22 20.7	-3.5	
GRTL	Ghazni	124.99 201	PKIKP	PKP	06 21 05.1	+0.3	ERBR	Yeremizino-Bor	147.16 307	iPKP2	PKPdf	06 21 44.8	+0.6	KWP	155.98 327	ePKP	PKPdf	06 21 55.7	-1.7	
GARM	Garm	125.07 298	IAMS_20	IAMS_20	07 24 30.1		ERBR	comp=E,45nm,0.8s		pmax	pmax			KWP		ePP	PP	06 26 05.2	+3.5	
DZA	Taraz	125.17 303	ePKIKP	PKPdf	06 21 03.5	-0.4	ERBR	comp=Z,315nm,1.1s		pmax	pmax			KWP		ePP	PP	06 29 35.6		
DZA	Taraz	125.17 303	ePKP	PKPdf	06 21 03.5	-0.4	ERBR	comp=Z,92nm,1.1s		pmax	pmax			KWP	comp=Z,6um,23.8s					
KUZQ	Kuujuaa	125.61 38	IAMS_20	IAMS_20	07 14 22.2		LABN	Labinsk	147.23 305	iPKP2	PKPab	06 21 48.0	-0.4	BURAR	155.98 320	IAMS_20	IAMS_20	06 21 57.7	+0.1	
KK31	Karatay Array	125.80 303	iPKIKP	PKPdf	06 21 04.0	-1.1	LABN	Labinsk	147.23 305	iPKP2	PKPab	06 25 19.7		ISP	156.01 294	IAMS_20	IAMS_20	07 38 32.6		
KKAR	Karatay Array	125.80 303	PKP	PKPdf	06 21 04.2	-0.9	LABN	comp=Z,21nm,0.9s		pmax	pmax			VRI	156.06 315	iPKP	PKPab	06 22 13.7	-1.1	
KKAR	Karatay Array	125.80 303	PKIKP	PKPdf	06 21 04.2	-0.9	LABN	comp=Z,71nm,1.0s		pmax	pmax			PLOR	156.11 315	iPKP	PKPab	06 22 14.1	-1.1	
IUC	Iuzhny	125.97 302	ePKIKP	PKPdf	06 21 05.0	-0.5	LABN	comp=Z,15nm,0.4s		pmax	pmax			BSEG	156.37 349	ePKP	PKP	06 26 00.7	-2.6	
IUC	Iuzhny	125.97 302	ePKP	PKPdf	06 21 05.0	-0.5	LABN	comp=Z,15nm,0.4s		pmax	pmax			HLG	156.48					







17d 8h

Table of seismic events with columns for station name, time, magnitude, and location. Includes events like ASCENSION HYDR66.11 342 T, Paso Flores 46.53 257 P, and Scott Base 48.20 177 P.

IDC 17 07:21:28.2.3.5, 54.28N-87.04E, h0km, mbmt2.7/2, ML2.2/2, Error ellipse: s-maj=32.2km s-min=2.0, 4km

ASRS 17 07:21:25.0.0.7, 54.24N-87.04E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for H46RU Zalesovo Beam and ZALV Zalesovo Beam.

2019 JUN

Main table of seismic events for June 2019. Columns include station name, time, magnitude, and location. Includes events like Kurchatov Arra 122.88 312 PKP, Borovoye Array 128.214 2.2 PKP, and Kurchatov Arra 6.34 239 Pn.

IDC 17 07:37:02.0.3.0, 32.94S-178.45W, h0km, mb4.3/3, mbtmp3.5/3, Error ellipse: s-maj=35.8km s-min=25.8km

WEL 17 07:37:03.4.0.8, 33.1S-178.1W, 1.5, h33km, mB4.9/7, ML5.0/14, MLv4.8/13, Mw(mB)4.2/7, Error ellipse: s-maj=20.5km s-min=3.6km s=109.2 confirmed

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for GLKZ Green Lake, RAO Raoul Island, and RIZ Raoul Island.

946

Table of seismic events for June 2019, continuing from the previous page. Includes events like Kurchatov Arra 122.88 312 PKP, Borovoye Array 128.214 2.2 PKP, and Kurchatov Arra 6.34 239 Pn.

IDC 17 07:37:24.2.9.3, 17.67S-172.19W, h0km, mb3.9/3, mbtmp3.6/3, Error ellipse: s-maj=41.0km s-min=40.3km az=140.0, Tonga Islands region

ASRS 17 08:02:59.0.0.7, 54.21N-86.43E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for WRA Warramunga Arr, URZ Urewera, and URZ Urewera.

JMA 17 08:11:34.6.0.3, 25.1N-122.1E, 0.7, h84km, m3.3km, MW2.1/9, TAIWAN REGION

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for EGS Santiao Chiao, TWB1 Santiao Chiao, and TIPB Shuangxi.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like VYHB, NSK, EOS4, NNSB, etc.

IDC 17 08:30:37.0-0.6,54:105x:1.79W,h0km,mb4.2/14, mbtmp4.2/15,ML4.3/1,MS4.5/28,Error ellipse: s-maj=21.2km s-min=15.9km az=65.0

NEIC 17 08:30:39.4-1.6,54:09S:0.09:1.9W:0.2, h10km,1km, mb4.9/48, Error ellipse: s-maj=18.4km s-min=13.4km az=45.0

GCMT 17 08:30:41.4-0.3,54:17S:0.102:1.69W:0.03,h20km,1km, MW5.1/105, Moment Tensor Solution. s16,c17: s105,c140; Duration: 0 Moment tensor: Scale 1016Nm; Mn=0.88z.25; Mbb3.13z.23; Mbb2.25z.21; Mw=4.14z.15; Mw=0.57z.39; Best double couple: Ms5.11900x1016 NP1.3z.343.000000, d75.000000, lambda=6.000000. NP2.3z.74.000000, b84.000000, lambda=165.000000

Principal axes: T 5.4610, P1g7.0000, Azm208.0000; N -0.6800, P1g73.0000; Azm95.0000; P -4.7700, P1g15.0000; Azm30.0000; nsta1 refers to body waves, cutoff=40s, nsta2 refers to surface waves, cutoff=50s.

Triangular moment-rate function

ISC 17 08:30:38.7-0.4,54:105:0.07:1.82W:0.09,h10km,n114, 0:088/81,mb4.8/32,MS4.6/28,6C-1D,Bouvet Island region

Table with columns: Code, Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like VNA1, VNA2, VNA3, SNA4, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like GRTL, TSUM, TSMU, GONG, PHOH, MATP, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like BRTR, PSI, BZH, PVAR, etc.

CATAC 17 08:30:21.0-2.0,10N:2.8'W:2.8',h20km,4km,M3.0/10, ML3.0/12,2C-2D,Error ellipse: s-maj=6.8km s-min=3.6km az=54.0,confirmed,Costa Rica

Table with columns: Code, Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like CMARA, INDI, CARN, etc.

ASRS 17 08:33:26.0-2.5,53:75N:91.07E,h0km,M3.2,The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 17 08:33:30.1-3.3,53:69N:90.92E,h0km,mbtmp3.4/2, ML3.1/2, Error ellipse: s-maj=28.0km s-min=23.1km az=51.0

NNC 17 08:33:31.9-3.8,53:72N:90.73E,h0km,mb3.5,mpv3.5, Error ellipse: s-maj=27.4km s-min=19.7km az=57.0, Suspected Mining explosion.

ISC 17 08:33:31.7-4.1,53:7N:0.1:90.8E:0.2,h0km,n10, 0:158/13,7C-6D,Southwestern Siberia

Table with columns: Code, Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like I46RU, ZAAO, ZAAZ, ZALV, etc.

ASRS 17 08:50:44.0-1.3,54:15N:87.22E,h0km,M2.7,The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 17 08:50:54.5-3.0,54:21N:87.27E,h0km,mbtmp2.7/2, ML2.7/2, Error ellipse: s-maj=25.5km s-min=18.5km az=53.0,Southwestern Siberia

Table with columns: Code, Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like I46RU, ZALV, ZALV, etc.

IDC 17 08:50:59.0-2.8,8:04N:104.40W,h0km,mb3.7/5, mbtmp3.7/5,MS4.1/17, Error ellipse: s-maj=121.9km s-min=21.8km az=61.0

NEIC 17 08:51:05.6:1.7,8.5N:0.1:103.7W:0.2,h10km,2km, mb4.2/27, Error ellipse: s-maj=27.7km s-min=18.4km az=249.0

ISC 17 08:51:03.0:1.1,8.4N:0.1:103.8W:0.2,h10km,n51, 0:098/35,mb4.1/17,MS4.0/16,Northern East Pacific Rise

Table with columns: Code, Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like TLIG, ZALG, MTO3, etc.







17d 9h

Table with columns: Station Name, Az, Phase ID, Time, Res. Includes stations like HPAH Hawaii Prepara, MHA Mahukona, HLE Haleakala, etc.

IDC 17 09:57:19.1-0.5, 31.105x177.67W, h0km, mb4.5/15, mbmp4.5/16, ML6.6/1, MS4.3/21, Error ellipse: s-maj=19.8km s-min=16.3km az=87.0

NEIC 17 09:57:19.2-1.6, 31.108S, 0.06:177.7W, 0.2, h10km, 1km, mb4.9/56, Error ellipse: s-maj=23.0km s-min=10.5km az=83.0

GCMT 17 09:57:23.2-0.4, 31.18S, 0.04:177.36W, 0.02, h24km, MW5.0/70, Moment tensor: Scale 1016Nm, M3, 86z: 24;

ISC 17 09:57:21.7-0.3, 31.22S, 0.05:177.79W, 0.07, h35km, n216, s196/217, mb4.9/35, MS4.3/20, 15C-30, Kermadec Islands region

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists numerous stations like GLKZ Green Lake, RAO Raoul Island, etc.

Continuation of station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like OXZ Oxford, RPZ Rata Peaks, etc.

2019 JUN

Main event list table with columns: STKA, Time, Res, Az, Phase ID, Time, Res. Lists events like Stephens Creek, HTT Hallett, MTSU Mount Surprise, etc.

950

Main event list table with columns: KLR, Time, Res, Az, Phase ID, Time, Res. Lists events like Kul'dur, N15K Jewell Creek, O18K Kottuh Hills, etc.

IDC 17 09:59:09.0-1.4, 21.0:93S, 179.09W, h605km, 56km, mb3.5/8, mbmp4.4/8, Error ellipse: s-maj=82.5km s-min=23.2km az=155.0

ISC 17 09:59:10.0-1.4, 21.0:05S, 179.17W, 0.3, h619km, n21, s094/21, mb4.0/8, Fiji Islands region



2019 JUN

Table with columns: STKA, Stephens Creek, 36.67 245 P, P, 10 05 26.4 -0.2, etc. Includes various station codes and coordinates.

Table with columns: H10N3 ASCENSION HYDR87, 86 155 T, T, 12 55 22.9, etc. Includes station codes and coordinates.

Table with columns: YSS, comp=Z, 60nm, 0, 3s, AMB, AMB, 10 10 13.2, etc. Includes station codes and coordinates.

17d 10h

IDC 17 10:01:46.1, 0.8, 30.845s, 177.55W, h0km, mb4.2/7, mbmp4.1/7, Error ellipse: s-maj=36.0km s-min=24.0km az=176.0

NEIC 17 10:01:47.0, 0.6, 31.135s, 0.03s, 177.4W, 0.2, h10km, 2km, mb4.6/13, Error ellipse: s-maj=26.7km s-min=3.3km az=95.0

ISC 17 10:01:49.6, 0.6, 31.285s, 0.05s, 177.6W, 0.1, h26km, n58, z=201/62, mb4.4/12, 3C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, etc. Lists various stations and their details.

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, etc. Lists various stations and their details.

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, etc. Lists various stations and their details.





*Fault plane solution: M<sub>3</sub>45000×10<sup>16</sup> NP1:  
 0.31,05000°, 8.31,13000°, 1.05,28000°. NP2:  
 0.15,35000°, 6.09,00000°, 1.80,96000°. Principal axes: T  
 3.5990, Plg73.0000°, Azm3,0000°, N -0.3317, Plg8.0000°,  
 Azm120.0000°, P -3.2673, Plg15.0000°, Azm212.0000°;  
 NEIC 17 11:04:02.4, 0.3335, 98.99E, h46km  
 IDC 17 11:04:03.2, 1.6, 0.26S, 99.10E, h56km, 12km, mb4.6/29,  
 mbtmp4.9/33, MS4, 1/36, Error ellipse: s-maj=15.1km  
 s-min=8.9km az=64.0*

*GCMT 17 11:04:03.2, 0.2, 0.46S, 0.02, 98.92E, 0.02, h51km, 1km,  
 MW5, 0.69, Moment Tensor, Scale: 1.016Nm, M<sub>3</sub>1.62, 1.5;  
 Duration: 0 Moment tensor; Scale: 1.016Nm; M<sub>3</sub>1.62, 1.5;  
 M<sub>2</sub>2.64, 1.0; M<sub>1</sub>0.53, 1.2; M<sub>1</sub>1.58, 0.8; M<sub>1</sub>1.97, 0.7;  
 M<sub>2</sub>0.47, 0.9; Best double couple: M<sub>3</sub>3.87500×10<sup>16</sup>  
 NP1=30.10,0000°, 8.33,0000°, 1.03,0000°. NP2:  
 0.15,0000°, 6.58,0000°, 1.81,0000°. Principal axes: T  
 3.5810, Plg76.0000°, Azm358.0000°, N 0.5970,  
 Plg7.0000°, Azm118.0000°, P -4.1690, Plg12.0000°.  
 Azm210.0000°; nst1 refers to body waves, cutoff=40s.  
 nst2 refers to surface waves, cutoff=50s. Triangular  
 moment-rate function*

*NEIC 17 11:04:04.2, 1.9, 0.30S, 0.08, 99.03E, 0.08, h59km, 5km,  
 mb5.3/19, Mw5, 0.10 Error ellipse: s-maj=13.3km  
 s-min=8.1km az=23.0*

*BGR 17 11:04:05.9, 0.28S, 97.27E, h33km, mb5.0, Ms4.5  
 ISC 17 11:04:03.1-0.4, 0.39S, 0.03, 99.00E, 0.04, h59km, 2km,  
 h59km; p-P, n813, c195784, m5.2/202, MS4, 2/54,  
 28C-15D, Southern Sumatara*

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
PBSI	Pulau Batu	0.79	295	Op	ISC	h m s ISC
PBSI				P	Pn	11 04 16.4 -2.0
SISI	Saibi	0.94	175	P	Sn	11 04 27.3 -2.4
MNSI	Mandailing Nat	1.31	26	P	Pn	11 04 19.4 -0.9
PPI	Padang Panjang	1.40	93	P	Pn	11 04 23.3 -1.9
SBSI	Sibolga	1.93	357	P	Pn	11 04 25.4 -1.0
BKNI	Bangkinang	2.16	71	P	Pn	11 04 30.5 -3.1
BKNI	Bangkinang	2.16	71	P	Pn	11 04 35.3 -0.4
BKNI	Bangkinang	2.16	71	P	Pn	11 04 37.1 +0.4
GSI	Gunungsitoli	2.20	320	P	Pn	11 04 35.7 -1.0
GSI	Gunungsitoli	2.20	320	P	Pn	11 04 36.7 -0.6
GSI	Gunungsitoli	2.20	320	P	Pn	11 04 35.7 -1.6
GSI	Gunungsitoli	2.20	320	P	Sn	11 05 02.7 -0.7
GSI	Gunungsitoli	2.20	320	P	Pn	11 04 36.1 -1.2
RPSI	Rantau Prapat	3.06	359	P	Sn	11 04 47.0 -2.1
RPSI	Rantau Prapat	3.06	359	P	Sn	11 05 23.2 -1.3
RPSI	Rantau Prapat	3.06	359	P	Sn	11 04 47.8 -1.3
PSI	Prapat	3.17	359	P	Sn	11 04 47.0 -3.6
PSI	163nm, 0.4s, baz=168, slow=13, SNR=5.6			S	Sn	11 05 23.2 -4.1
PSI	163nm, 0.4s, baz=138, slow=18, SNR=5.6			LR	LR	11 06 14.7
PSI	comp-Z, 8μm, 20.5s, baz=140, slow=45			P	Pn	11 04 48.7 -1.9
PSI	Prapat	3.17	359	P	Pn	11 05 01.1 +0.8
TSI	Tuntungan	3.88	354	P	Pn	11 05 12.9 -0.6
KSI	Kapahiang	4.84	332	P	Pn	11 05 18.5 -1.2
MLSI	Meulaboh, Aceh	5.00	331	P	Pn	11 05 23.8 +1.2
MNAI	Manna	5.59	135	P	Pn	11 05 24.9 +1.2
MNAI	Manna	5.59	135	P	Pn	11 05 23.8 +1.0
KULM	Kulim	5.87	16	P	Pn	11 05 27.0 -0.6
KULM	Kulim	5.87	16	P	Pn	11 05 27.8 +0.2
LHMI	Lhok Sumawe	5.94	340	P	Pn	11 05 27.9 -0.7
LHMI	Lhok Sumawe	5.94	340	P	Pn	11 05 30.1 +1.6
LHMI	Lhok Sumawe	5.94	340	P	Pn	11 05 27.8 -0.7
MDSI	Maura Dua	6.58	128	P	Pn	11 05 37.8 +0.5
LWLI	Lwiwa	6.83	132	P	Pn	11 05 41.3 +0.4
BSI	Banda Aceh	6.92	328	P	Pn	11 05 39.5 -2.4
PPBI	Panimbang	7.35	104	P	Pn	11 05 48.9 +1.1
SRIT	Nakansritamara	8.94	4	P	Pn	11 06 08.5 -1.1
TPI	Tanjungpandan	8.96	105	P	Pn	11 06 10.4 +0.4
CGJI	Cibinong	9.10	133	P	Pn	11 06 09.0 -2.8
CNJI	Cibinong	10.63	130	P	Pn	11 06 29.2 -3.5
LEMJ	Lembahaja	10.72	123	P	Pn	11 06 33.4 -0.6
LEM	12nm, 0.4s, baz=311, slow=19, SNR=1.9			LR	LR	11 11 07.2
UGM	Wanagama	13.71	123	Pn	Pn	11 07 13.0 -1.7
UGM	Wanagama	13.71	123	Pn	Pn	11 07 16.2 +1.5
UGM	Wanagama	13.71	123	Pn	Pn	11 07 12.9 -1.8
PCJI	Pacitan	14.40	123	P	Pn	11 07 20.8 -3.1
DLV	Lat	15.45	37	P	Pn	11 07 38.0 +0.2
KMMI	Kalianing	16.33	114	P	Pn	11 07 49.7 -1.0
GMJI	Gumukmas	16.39	119	P	Pn	11 07 47.3 -2.1
JAGI	Jajag, Banyuwangi	17.10	118	P	Pn	11 07 56.6 -1.7
KKM	Kota Kinabalu	18.33	69	P	Pn	11 08 14.1 +0.6
KKM	Kota Kinabalu	18.33	69	P	Pn	11 08 15.2 +1.7
CM31	Chiang Mai Arr	18.73	360	P	Pn	11 08 16.8 -0.3
CMAR	Chiang Mai Arr	18.73	360	P	Pn	11 08 16.2 -0.9
CMAR	Chiang Mai Arr	18.73	360	P	Pn	11 08 15.7 -1.4
CMAR	1.9nm, 0.6s, baz=213, slow=2.8, SNR=5.7			PcP	PcP	11 12 44.6 +1.5
CMAR	comp-Z, 1μm, 18.1s, baz=180, slow=39			LR	LR	11 16 06.3
CMAR	Chiang Mai Arr	18.73	360	iP	iP	11 08 16.2 -0.9
CHTO	Chiang Mai	19.08	360	P	P	11 08 20.2 -0.8
CHTO	Chiang Mai	19.08	360	P	P	11 08 21.4 +0.4
CHTO	Chiang Mai	19.08	360	P	P	11 08 20.2 -0.8
CHTO	comp-Z, 14nm, 0.8s			pmax	pmax	
TWSI	Taliwang, Sumb	19.65	115	P	Pn	11 08 25.3 -1.9
PALK	Pallekele	19.77	293	P	Pn	11 08 31.1 +0.5
PALK	comp-Z, 21nm, 0.9s, baz=94, slow=12, SNR=5.6			S	S	11 11 56.6 -1.2
PALK	comp-Z, 11nm, 0.7s, baz=189, slow=4, SNR=5.2			LR	LR	11 15 02.8
MYLDM	Lahad Datu	20.25	74	P	Pn	11 08 35.1 -1.0
MYLDM	comp-Z, 87nm, 1.0s			IAMB	IAMB	11 08 40.7
MYLDM	Lahad Datu	20.25	74	P	Pn	11 08 35.8 -0.3
PLAI	Plampang	20.49	115	P	P	11 08 33.5 -2.9
MPSI	Mapaga	20.91	88	P	P	11 08 42.1 +1.2
SPSI	Sidrap Palu	21.05	100	P	P	11 08 43.8 +1.3
KAPI	Kappang	21.23	103	P	P	11 08 47.6 +3.4
KAPI	Kappang	21.23	103	P	P	11 08 46.9 +2.6
KAPI	comp-Z, 261nm, 19.7s, baz=276, slow=36			LR	LR	11 16 52.1
KAPI	Kappang	21.23	103	P	P	11 08 47.2 +2.9
KAPI	Kappang	21.23	103	P	P	11 08 47.7 +3.4
BNSI	Bone	21.46	101	P	P	11 08 48.5 +1.7
TOLIZ	Tolitoli	21.83	86	P	P	11 08 50.3 -0.4
TOLIZ	Tolitoli	21.83	86	P	P	11 08 50.4 -0.4
QIZ	Qiongzong	22.02	28	sP	sP	11 09 10.5 -2.9
QIZ				S	S	11 12 57.9 +5.1
QIZ	comp-Z, 34nm, 1.5s			LR	LR	
QIZ	comp-Z, 280nm, 9.6s			LR	LR	
QIZ	comp-Z, 650nm, 19.2s			LR	LR	
SLVN	Son La	22.11	12	P	P	11 08 54.0 +0.3
BSSI	Batu Bau, Bunt	22.20	105	P	P	11 08 54.8 +0.1
APSI	Ampana	22.65	91	P	P	11 09 01.8 +2.2
MRSI	Mariisa	22.92	98	P	P	11 09 02.6 -0.2
LWSI	Luwuk	23.78	92	P	P	11 09 11.2 +0.7
LWUI	comp-Z, 142nm, 0.9s			IAMB	IAMB	11 09 25.8
LWUI	Luwuk	23.78	92	P	P	11 09 12.4 +1.8

LWUI	Luwuk	23.78	92	P	P	11 09 11.1 +0.5
KDI	Kendari	23.86	99	P	P	11 09 11.8 +0.5
BRDH	Bariadhala	24.02	343	LR	LR	11 21 08.2
BBSI	Bau Bau	24.07	103	P	P	11 09 13.9 +0.7
TNCH	TengChong	25.27	359	P	P	11 09 27.1 +2.9
TNCH				S	S	11 13 48.1 +2.0
TNCH	comp-Z, 89nm, 0.6s			pmax	pmax	
TNCH	comp-Z, 190nm, 3.4s			pmax	pmax	
TNCH	comp-Z, 800nm, 15.6s			LR	LR	
TNCH	comp-Z, 470nm, 6.7s			LR	LR	
TNCH	comp-Z, 1μm, 16.9s			LR	LR	
IMP	Imphal	25.54	349	eP	IAMB	11 09 24.6 -2.0
IMP				IAMB	IAMB	11 09 28.4
KMI	Kumming	25.62	8	↑P	P	11 09 28.3 +0.9
KMI				S	S	11 13 50.1 -1.5
KMI	comp-Z, 53nm, 1.1s			pmax	pmax	
KMI	comp-Z, 610nm, 19.6s			LR	LR	
KMI	comp-Z, 280nm, 16.5s			LR	LR	
KMI	comp-Z, 800nm, 24.4s			LR	LR	
KOHI	KOHIMA	26.38	350	eP	IAMB	11 09 33.0 -1.2
KOHI				IAMB	IAMB	11 09 36.8
HYB	Hyderabad	26.80	312	eP	P	11 09 39.1 +1.1
HYB				eP	P	11 09 53.0 +0.5
HYB				eS	P	11 14 11.4 +1.2
PZH	PanZhiHua	26.86	5	S	S	11 09 38.8 +0.3
PZH				S	S	11 14 22.4 +1.1
PZH	comp-Z, 20nm, 0.8s			pmax	pmax	
PZH	comp-Z, 430nm, 23.0s			LR	LR	
PZH	comp-Z, 430nm, 19.6s			LR	LR	
PZH	comp-Z, 650nm, 23.5s			LR	LR	
H0S2	Diego Garcia H	27.39	254	T	T	11 37 41.3
H0S3	Diego Garcia H	27.39	254	T	T	11 37 40.8
H0S1	Diego Garcia H	27.41	254	T	T	11 37 41.8
TEZP	TEZPUR	27.50	348	eP	IAMB	11 09 43.0 -1.1
TEZP				IAMB	IAMB	11 09 48.4
BLSP	Bilasapur	27.77	325	eP	P	11 09 46.8 +0.2
NLAI	Namlea	28.23	96	P	P	11 09 52.8 +2.1
MBWA	Marble Bar	28.91	137	P	P	11 09 58.5 +1.7
PSA00	Pilbara Seismi	29.27	137	P	IAMB	11 10 01.9 +1.9
LSA	Lhasa	30.84	347	IAMB	IAMB	11 10 16.2
LSA	Lhasa	30.84	347	P	P	11 10 14.8 +0.6
CD2	Chengdu	31.45	8	pP	pP	11 10 28.9 0.0
CD2				S	S	11 10 19.3 +0.2
CD2	comp-Z, 70nm, 1.1s			pmax	pmax	11 15 28.1 +5.1
CD2	comp-Z, 160nm, 12.0s			pmax	pmax	
CD2	comp-Z, 350nm, 24.1s			LR	LR	
CD2	comp-Z, 850nm, 18.8s			LR	LR	
FITZ	Fitzroy Crossi	31.55	125	LR	LR	11 10 19.4 -0.7
FITZ	Fitzroy Crossi	31.55	125	LR	LR	11 24 19.8
FITZ	Fitzroy Crossi	31.55	125	LR	LR	11 10 20.0 -0.1
FITZ	Fitzroy Crossi	31.55	125	LR	LR	11 10 23.8 -0.9
ENSH	Enshi	32.08	17	P	IAMB	11 10 24.3
ENSH	Enshi	32.08	17	P	P	11 10 23.7 -0.9
ENSH	Enshi	32.08	17	pP	pP	11 10 37.5 -1.9
GUNA	GUNA	32.56	321	eP	IAMB	11 10 29.4 +0.5
GUNA	comp-Z, 76nm, 0.8s			IAMB	IAMB	11 10 30.7
MORW	Morawa	32.84	152	P	P	11 10 31.9 +0.6
FAKI	Fak Fak	33.33	95	P	P	11 10 36.9 +1.1
BLDU	Ballidu	34.45	152	P	P	11 10 46.4 +1.1
PTH	Pithoragarh	34.75	331	eP	IAMB	11 10 48.8 +0.7
PTH				IAMB	IAMB	11 10 50.4
MUN	Mundaring	35.38	154	P	P	11 10 53.9 +0.6
XAN	Xi'an	35.49	14	S	S	11 10 53.1 -1.1
XAN				S	S	11 16 23.9 -1.6
XAN	comp-Z, 59nm, 0.6s			pmax	pmax	
XAN	comp-Z, 290nm, 4.5s			pmax	pmax	
XAN	comp-Z, 870nm, 14.9s			LR	LR	
XAN	comp-Z, 440nm, 13.9s			LR	LR	
XAN	comp-Z, 1μm, 17.7s			P	P	11 10 53.1 -1.1
XAN	Xi'an	35.49	14	P	P	11 10 55.0 +0.1
AJM	Ajmer	35.56	321	eP	IAMB	11 10 55.9
KUDL	Kundali	35.65	325	eP	IAMB	11 10 52.6 -2.9
KUDL				IAMB	IAMB	11 10 56.2
JOSI	Joshimath	35.90	331	eP	IAMB	11 10 57.9 -0.1
JOSI				IAMB	IAMB	11 10 58.8
LZH	Lanzhou	36.57	7	eP	P	11 11 03.6 +0.1
LZH						



MNK	Minsk	79.44 326	iLR	LR	11 51 52.1	
MNK			iP	P	11 57.3	-5.7
MNK			iSS	SSS	11 25 56.2	-3.3
MNK			pmax	pmax	11 34 25.5	
MNK	comp=E,14nm,0.6s					
MNK	comp=Z,15nm,0.7s		pmax	pmax		
MNK	comp=N,18nm,0.7s					
HOWZ	Holdsworth Sta	79.56 131	P	P	11 16 05.3	+1.3
MRZ	Mangatainika R	79.58 131	P	P	11 16 04.6	+0.5
MTW	Mouti Morrison	79.59 132	P	P	11 16 05.3	+1.1
PRWZ	Pori Road	79.86 131	P	P	11 16 06.6	+1.0
PNHZ	Pukenui	79.94 130	P	P	11 16 07.6	+1.4
BKZ	Black Stump Fm	80.06 130	P	P	11 16 07.0	+0.2
BKZ	Black Stump Fm	80.06 130	P	P	11 16 07.2	+0.4
BFZ	Birch Farm	80.08 131	P	P	11 16 07.4	+0.6
BFZ	Birch Farm	80.08 131	P	P	11 16 07.6	+0.8
NACGM	Naroch	81.16 326	eP	P	11 16 04.7	-2.2
MTHZ	Maungataniwha	80.29 129	P	P	11 16 08.6	+0.6
RTZ	Ruatahuna	80.37 129	P	P	11 16 09.4	+0.9
URZ	Urewera	80.43 129	P	P	11 16 09.3	+0.6
GZR	Gura Zlata	80.62 316	iP	P	11 16 10.5	+0.8
MTAW	Matawai	80.76 129	P	P	11 16 10.7	+0.1
HMZ	Te Kahia	80.80 128	P	P	11 16 11.4	+0.4
DRGR		80.91 317	iP	P	11 16 11.9	+0.7
BOVS	Bovan	81.08 314	P	P	11 16 12.1	+0.1
BUVU	Vasula	81.12 330	eP	P	11 16 09.9	-2.0
VSU			pmax	pmax		
PUZ	Puketitii	81.30 128	P	P	11 16 13.9	+0.5
KWP	Kalwaria Pacla	81.43 320	eP	P	11 16 14.1	+0.2
BZS	Buzias	81.46 316	iP	P	11 16 14.6	+0.6
KOLS	Kolonické sedl	81.58 320	eP	P	11 16 15.7	+1.1
KOLS	comp=Z,21nm,1.0s		pmax	pmax		
KOLS	Kolonické sedl	81.58 320	eP	P	11 16 15.7	+1.1
TSMU	Tsumeb	81.77 251	LR	LR	11 16 15.7	+1.1
PABE	Paberze	81.87 322	Iamb	Iamb	11 16 17.4	
SUV	Suwalki	82.00 325	eP	P	11 16 16.2	-0.4
BILL	Bilibino	82.00 211	eP	P	11 16 14.5	-1.9
BIALL	comp=Z,5.0nm,1.4s		pmax	pmax		
FIA1	FINES Array B	82.23 332	P	P	11 16 18.2	+0.5
FIA1			Iamb	Iamb	11 16 19.1	
FINES	comp=Z,5.0nm,1.1s					
FINES	FINES Array B	82.23 332	P	P	11 16 18.3	+0.6
FINES	FINES Array B	82.23 332	P	P	11 16 17.8	+0.1
FINES	comp=Z,3.5nm,0.5s,baz=113,slow=6.1,SNR=24					
FINES	FINES Array B	82.23 332	iP	P	11 16 18.1	+0.4
FINES			pmax	pmax		
STHS	Stebnicka Huta	82.33 320	eP	P	11 16 19.2	+0.6
KECS	Kecevo	82.67 319	eP	P	11 16 21.0	+0.6
KECS	comp=Z,18nm,0.7s		pmax	pmax		
KECS	Kecevo	82.67 319	eP	P	11 16 21.0	+0.6
NIE	Niedzica	82.94 320	eP	P	11 16 22.4	+0.7
OJC	Ojcow	83.38 321	eP	P	11 16 23.2	-0.8
MORH	Mrgy, Hungar	83.60 316	iP	P	11 16 25.7	+0.6
YVYH	Yyfine	83.76 319	eP	P	11 16 26.3	+0.3
JAVC	Velka Javorina	84.53 319	eP	P	11 16 30.9	+0.7
ARCES	ARCCESS Array B	84.63 340	P	P	11 16 30.5	+0.6
ARCES	ARCCESS Array B	84.63 340	P	P	11 16 30.0	+0.1
ARCES	comp=Z,5.6nm,0.4s,baz=101,slow=5.3,SNR=103					
ARCES	ARCCESS Array B	84.63 340	P	P	11 16 30.5	+0.6
ARCES			pmax	pmax		
MORC	Moravsky Berou	84.77 320	eP	P	11 16 31.3	+0.2
MODS	Modra-Piesok	84.78 319	eP	P	11 16 30.9	-0.2
CEL	Celeste	84.81 308	Iamb	Iamb	11 16 34.0	
CEL	comp=Z,25nm,1.3s					
ACER	Acerenza	84.98 311	P	P	11 16 32.8	+0.4
KRUC	Moravsky	85.43 319	eP	P	11 16 33.9	-0.5
KP	Kisaz	85.68 321	eP	P	11 16 36.0	+0.4
BLEU	Blekinge	86.30 319	eP	P	11 16 40.0	+0.1
ADK	Adak	86.78 38	P	P	11 16 41.0	+0.1
PRED	Cave del Predi	87.12 316	Iamb	Iamb	11 16 44.3	
BRG	Bergliesshubel	87.17 321	eP	P	11 16 43.6	+0.7
BRG	comp=Z,20nm,1.4s					
BRG	Bergliesshubel	87.17 321	eP	P	11 16 43.4	+0.5
BRG			Amp		11 16 44.9	
GERC	comp=Z,4.9nm,1.0s					
GERC	GERESS Array B	87.18 319	eP	P	11 16 43.7	+0.5
GERC	GERESS Array B	87.18 319	P	P	11 16 43.6	+0.5
GERC	comp=Z,12nm,1.2s,baz=93,slow=4.8					
GERC	GERESS Array B	87.18 319	P	P	11 16 43.6	+0.5
GERC	comp=Z,4.1nm,0.3s,baz=122,slow=5.0,SNR=4.6					
KHC	Kasperske Hory	87.28 319	eP	P	11 16 43.6	+0.1
KHC			pmax	pmax		
RUE	Ruedersdorf	87.38 322	eP	P	11 16 44.4	+0.6
DEL	Delary	87.62 326	iP	P	11 16 45.5	+0.7
RJOB	Jochberg	87.72 318	eP	P	11 16 45.4	-0.3
WET	Wetzell	87.74 319	eP	P	11 16 46.3	+0.6
WET	comp=Z,12nm,1.3s,baz=93,slow=4.8					
CLL	Collim	87.79 321	iP	P	11 16 46.2	+0.4
CLL			pmax	pmax		
CLL	comp=Z,11nm,1.2s					
CLL	Collim	87.79 321	eP	P	11 16 46.2	+0.4
CLL	comp=Z,16nm,1.5s,baz=93,slow=4.8					
CLL	Collim	87.79 321	iP	P	11 16 46.2	+0.4
CLL	comp=Z,11nm,1.2s					
CLL	Rugen	87.80 324	ePP	PP	11 20 13.0	+0.8
RGN	comp=Z,19nm,0.8s,baz=93,slow=4.8					
LUNU	Lund	87.80 326	iP	P	11 16 46.5	+0.8
HFS	Hagfors	87.98 330	P	P	11 16 47.2	+0.6
HFS	comp=Z,5.5nm,0.5s,baz=111,slow=6.5,SNR=19					
TANN	Tannenbergssta	88.08 320	eP	P	11 16 47.7	+0.4
TANN	comp=Z,6.8nm,1.1s,baz=93,slow=4.8					
ROTZ	Rotzenmuhle	88.21 320	eP	P	11 16 48.7	+0.8
ROTZ	comp=Z,21nm,1.0s,baz=93,slow=4.8					
FABU	Falkenberg	88.29 327	iP	P	11 16 48.8	+0.8
MANZ	Manzenberg	88.29 320	eP	P	11 16 49.0	+0.7
MANZ	comp=Z,2.2nm,1.0s,baz=93,slow=4.8					
BORU	Boraas	88.30 328	iP	P	11 16 48.3	+0.3
ATKA	Atka Island	88.34 38	P	P	11 16 49.0	+0.6
CTTA	Castel Tesino	88.43 316	Iamb	Iamb	11 16 51.1	
WTI	Wattenberg	88.48 317	iP	P	11 16 49.2	-0.3
WTI	comp=Z,3.7nm,0.5s					
WATA	Waldersee	88.53 317	iP	P	11 16 49.6	-0.1
WATA	comp=Z,2.6nm,0.5s					
NEUB	Neuenburg	88.55 321	eP	P	11 16 49.7	+0.3
MOX	Moxa	88.63 320	eP	P	11 16 50.6	+0.7
MOX	comp=Z,10nm,1.2s,baz=93,slow=4.8					
MOX			L		12 28 25.8	
ONAU	Onsala	88.74 327	iP	P	11 16 50.9	+0.7
FUR	Furstedelbru	88.76 318	eP	P	11 16 49.5	-1.0
FUR	comp=Z,15nm,0.6s,baz=93,slow=4.8					
SQTA	Sankt Quirin	88.78 317	iP	P	11 16 50.5	-0.2
GRF	Grafenberg Arr	88.85 320	eP	P	11 16 51.8	+0.9
GRF	comp=Z,7.6nm,0.7s,baz=93,slow=4.8					
GRF			L		12 25 08.4	
MOTA	Mossalm	88.85 317	iP	P	11 16 51.2	+0.1
MOTA	comp=Z,3.2nm,1.3s					
SPB2	Spitsbergen Ar	88.86 348	Iamb	Iamb	11 16 51.5	
SPB2	comp=Z,17nm,0.7s					
SPITS	Spitsbergen Ar	88.86 348	P	P	11 16 50.4	0.0
SPITS	comp=Z,6.8nm,0.5s,baz=100,slow=8.0,SNR=38					
SPITS			L		12 28 25.8	
GORTI	Trebel	88.91 323	eP	P	11 16 51.6	+0.6
GORTI	comp=Z,7.8nm,0.8s,baz=93,slow=4.8					
FLTG	Flechtingen	88.93 322	eP	P	11 16 51.1	-0.1
FLTG	comp=Z,9.7nm,0.7s,baz=93,slow=4.8					
NORES	NORESS Array B	89.08 331	P	P	11 16 52.8	+1.1
RETA	Reutte	89.09 317	iP	P	11 16 52.4	+0.2
RETA	comp=Z,2.7nm,0.5s					
FETA	Feichten	89.10 317	eP	P	11 16 51.7	-0.7
FETA	comp=Z,4.5nm,1.2s					

NOA	NORSAR Array B	89.26 331	P	P	11 16 53.3	+0.7
NOA	comp=Z,3.2nm,1.0s,baz=93,slow=5.6,SNR=5.9					
ASSE	Asse, Remlinge	89.27 322	eP	P	11 16 53.4	+0.7
ASSE	comp=Z,3.2nm,1.0s					
FUORN	Ofenpass-Fuorn	89.31 316	Iamb	Iamb	11 16 56.1	
FUORN	comp=Z,2.7nm,1.4s					
BSEG	Bad Segeberg	89.53 324	eP	P	11 16 55.1	+1.2
BSEG	comp=Z,12nm,0.8s,baz=93,slow=4.8					
UBR	Ueberlur	89.93 317	eP	P	11 16 54.3	+0.1
UBR	comp=Z,5.6nm,1.0s,baz=93,slow=4.8					
QSPA	South Pole Site	89.57 180	P	P	11 16 55.9	+1.8
QSPA	comp=Z,1.7nm,0.6s,baz=292,slow=1.8,SNR=20					
QSPA	comp=Z,1.7nm,0.6s					
NRDL	Niedersach Rie	89.63 322	eP	P	11 16 55.7	+1.4
NRDL	comp=Z,12nm,1.3s,baz=93,slow=4.8					
URBA	Unterbreizbach	89.66 321	eP	P	11 16 55.3	+0.8
URBA	comp=Z,4.0nm,0.8s,baz=93,slow=4.8					
DAVOX	Davos/Dischmat	89.67 317	P	P	11 16 56.0	+1.0
DAVOX	comp=Z,8.1nm,0.5s,baz=130,slow=4.0,SNR=14					
DAVA	Damuels	89.68 317	iP	P	11 16 55.5	+0.4
DAVA	comp=Z,13nm,0.9s					
GTTG	Gottingen	89.70 321	eP	P	11 16 55.8	+1.0
GTTG	comp=Z,11nm,0.7s,baz=93,slow=4.8					
KEST	Kesra	89.94 306	P	P	11 16 58.0	+1.5
KEST	comp=Z,9.9nm,1.1s,baz=136,slow=5.4,SNR=4.1					
GAMB	Gambel	90.03 26	P	P	11 16 55.5	-0.5
GAMB	comp=Z,9.9nm,1.1s					
TUE	Stuetta	90.04 316	Iamb	Iamb	11 16 59.2	
TUE	comp=Z,16nm,1.6s					
RETH	Rethem/Alter	90.08 323	eP	P	11 16 57.3	+0.8
RETH	comp=Z,11nm,1.3s,baz=93,slow=4.8					
TNS	Tanus Mts	90.65 320	eP	P	11 17 00.2	+0.8
TNS	comp=Z,31nm,1.3s,baz=93,slow=4.8					
KASTM	Kahler Asten	90.67 321	eP	P	11 17 00.3	+0.9
KASTM	comp=Z,12nm,1.1s,baz=93,slow=4.8					
SPIA	Saint Paul Isl	90.73 33	P	P	11 16 59.0	-0.5
SPIA	comp=Z,270					
BFO	Black Forest	90.73 318	P	P	11 16 60.0	+0.2
BFO	comp=Z,18nm,1.3s					
BFO	Black Forest	90.73 318	P	P	11 17 01.2	
BFO	comp=Z,18nm,1.3s					
BFO	Black Forest	90.73 318	eP	P	11 16 59.9	+0.2
BFO	comp=Z,12nm,0.9s,baz=93,slow=4.8					
IBBN	Ibbenburen	91.07 322	eP	P	11 17 01.9	+0.8
IBBN	comp=Z,16nm,1.0s,baz=93,slow=4.8					
P08K	Saint George I	91.12 34	P	P	11 17 00.9	-0.4
P08K	comp=Z,16nm,1.0s,baz=93,slow=4.8					
BUG	Bochum-Univer	91.38 321	eP	P	11 17 03.5	+0.9
BUG	comp=Z,16nm,1.1s,baz=93,slow=4.8					
SENIN	Lac Senin/Sane	91.45 316	Iamb	Iamb	11 17 06.5	
SENIN	comp=Z,12nm,1.1s,baz=93,slow=4.8					
ECH	Echerz	91.52 318	Iamb	Iamb	11 17 05.0	
ECH	comp=Z,8.0nm,1.0s					
NIKH	Nikolski High	91.60 37	P	P	11 17 03.7	+0.1
NIKH	comp=Z,8.0nm,1.0s					
NIKH	Nikolski High	91.60 37	P	P</		



Table with columns: CAST, Iamb, Iamb, 11 17 39.0, etc. Lists various stations and their associated data.

Table with columns: N25K, 102.62, 26, P, Pdif, 11 17 49.4, etc. Lists various stations and their associated data.

Table with columns: ULM, Lac du Bonnet, 128.72, 12, PKP, PKPdf, 11 23 04.0, etc. Lists various stations and their associated data.

Table with columns: GCG 17 11:06:10.6-0.3, 13:69N-91:39W, h88km, 40km, MD3.9, etc. Station information for GCG.

Table with columns: GCG 17 11:18:35.1-0.6, 14:32N-91:18W, h69km, 72km, MD3.6, etc. Station information for GCG.

Table with columns: STR 17 11:24:23.6-1.6, 45°N 5°W, h0km, MLW.0/7, Error ellipse, etc. Station information for STR.

Table with columns: IDC 17 11:28:53.7-1.0, 8:27N, 104:09W, h0km, mb3.9/8, etc. Station information for IDC.

Table with columns: GCMT 17 11:28:59.0-0.1, 8:48N, 0:01W, 104:01W, 0:01h, 12km, etc. Station information for GCMT.

Table with columns: ISC 17 11:28:56.0-0.5, 8:35N, 0:08W, 104:05W, 0:09h, 110km, n154, etc. Station information for ISC.

Table with columns: TLIG, TIapa, 10.60, 30, P, Pn, 11 31 29.6, etc. Station information for TLIG.

Table with columns: PETF, Flores, 16.24, 57, Pn, Iamb, 11 32 46.1, etc. Station information for PETF.

Table with columns: TXAR, Lajas Array, 20.88, 1, P, P, 11 33 39.8, etc. Station information for TXAR.

Table with columns: TX31, Lajas Array, 20.88, 1, P, P, 11 33 40.0, etc. Station information for TX31.

Table with columns: HKT, Hockley, 22.83, 19, P, P, 11 34 00.2, etc. Station information for HKT.

Table with columns: MNTX, Post, 24.88, 19, P, P, 11 34 20.3, etc. Station information for MNTX.

Table with columns: DKN5, Dickens, 25.36, 6, P, P, 11 34 22.9, etc. Station information for DKN5.

17d 11h

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MSTX Muleshoe, ANMO Albuquerque, PFO Pinyon Flats, etc.

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Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BLKN Baker Lake, CPUP Villa Florida, PLCA Paso Flores, etc.

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Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like n115.1811/94.mb4.1/40.Rat Islands, AMKA Amchitka, AMKA AMKA, etc.

Table with columns: I28M, M29M, I29M, F28M, K29M, D27M, KLR, B08A, NEW, MSO, NVAR, SONM, YHL, YHB, YHE, YNE, H17A, HHC, HHC, PDAR, SPITS, ULM, KURBB, MKAR, TXAR, BVAR, SCH0, PZH, NOA, AKASG, AKASG, ASAR, ESDC

IDC 17 12:10:01.3:0.5,30:27S;177:29W,h0km,mb4.3/14, mbmp4.3/17,ML4.3/3,MS4.3/32,Error ellipse: s-maj=20.9km s-min=17.3km az=81.0 NEIC 17 12:03:03.2:1.30:39S;0:08:17:2W;0.1,h10km,1km, mb4.9/40,Error ellipse: s-maj=22.4km s-min=11.2km az=67.0 GCMT 17 12:10:07.7:0.4,30:37S;0:03:176:67W;0.03,h29km,1km, MW5.0/76,Moment Tensor Solution. s34,c36; s76,c36; Duration: 0 Moment tensor: Scale 10^19Nm; Mr3.26±.22; Mw=0.38±.14; Ms=2.88±.13; Mo=10.±.24; Mb=0.44±.10; Mo=2.43±.17; Best double couple: Mc3.94600;10^16 NP1=193.00000;±626.00000;±97.00000; NP2: ±65.00000;±64.00000;±87.00000; Principal axes: T 4,1060,Plg71.0000; Azm266.0000; N -0.3190,Plg3.0000; Azm7.0000; P 3,7850,Plg19.0000; Azm98.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res

Table with columns: ARMA, EIDS, PPT, CAN, STKA, BBOO, AS31, ASAR, ASAR, ASAR, WR8, WR8, WRAB, WRAB, WRA, WRA, WRA, WBO, WND, VND, JAY, KNRA, FITZ, FITZ, CASY, GUMO, MORV, BATI, QSPA, KAPI, DAV, BELA, PMSA, MAW, LEM, JOW, TROLL, SNA, SNA, SNA, SNA, VNA3, MJAR, VNA2, VNA1, PLCA, ASAJ, LPIG, KSR5, KS19, KS19, PFO, PETK, PETK, NJ2, NJ2, AFDM, USRK, YBH, NVAR, NVAR, PRN, X16A, U15A, KNAB, TIA, TIA, CN2, CN2, BNX, ELK, KLR, TXAR, TXAR, G08A, G08A, K13K, MFID, MFID, NNA, SRU

Table with columns: ANMO, HVU, MA2, HLID, NEW, PZH, PDAR, SEY, HHC, HHC, HHC, LPQZ, WMAJ, MKAR, MKAR, KURBB, BVAR, FINES, KBZ, NB2, NOA, HFS, NACSG, KASG, MIAI, BRTR, CLL, CLL, CLL, ESDC

KRNET 17 12:11:12.8:0.1,42:23N;69:25E,mb2.6 SOME 17 12:11:14.7,42:27N;69:30E,h5km ISO 17 12:11:15.4:0.3,41:44N;070:69.3E;0.2,h10km,n7, ±254/14,8C-4D,Cap Zakakhstan Code Station Name Az Az' Phase ID Time Res

IDC 17 12:14:37.1±2.7,20:35S;177:90W,h536km,23km,mb3.3/9, mbmp4.1/10,Error ellipse: s-maj=50.7km s-min=17.9km

ISC 17 12:14:36.7:1.2,20:45S;0:3:177:9W;0.2,h534km,n13, ±887/12,mb3.7/9,Fiji Islands region Code Station Name Az Az' Phase ID Time Res

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res

HEL 17 12:24:16.±0.1,68:17N;32:94E,h0km,ML1.9,Explosion KOLA 17 12:24:16.7,68:10N;33:00E,h0km,ML2.5,Error ellipse: s-maj=2.0km s-min=1.5km az=90.0,Olenegorsk City, Mines

UPP 17 12:24:18.8:2.8,68:10N;32:41E,h0km,ML1.7 IDC 17 12:24:19.9:2.6,68:03N;32:00E,h0km,mbmp2.6/2, ML1.5/2,Error ellipse: s-maj=29.8km s-min=11.7km az=67.0 ISC 17 12:24:15.2:0.8,68:07N;0:03:33.07E;0.03,h0km,n43, ±129/66,Baltic States-Belarus-Northwestern Russia Code Station Name Az Az' Phase ID Time Res

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res





Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like SONM Songio Array, ULN Ulanbator, NO2 NORS Subarra, etc.

IDC 17 13:37:19.9, 1.8, 17.97Sx178.12W, h540km, 20km, mb3.0/6, mbmp3.9/7, Error ellipse: s-maj=29.7km s-min=19.3km az=140.0

NEIC 17 13:37:20.1, 1.2, 17.9S:0.1x178.0W:0.2, h552km, 9km, mb4.0/16, Error ellipse: s-maj=23.9km s-min=18.0km az=90.0

ISC 17 13:37:20.6, 0.7, 18.0S:0.1x178.2W:0.2, h550km, n26, o670/24, mb4.0/13, Fiji Islands region

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like MSVF Nonsavu, NIUE Niue, URZ Urewera, etc.

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like NVAR Mina Array Bea, P18K Big Mountain, N18K Kilae Creek, etc.

ROM 17 13:39:30.6, 0.2, 38.49N:0.004x16.142E:0.006, h9km, 1km, ML1.2/12.2C, Error ellipse: s-maj=0.5km s-min=0.0km az=138.0, Southern Italy

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like JOPP Joppolo, PLAC Placania, CEL Celeste, etc.

ROM 17 13:40:04.0, 4.0, 1.38x492N:0.004x16.150E:0.006, h13km, 2km, ML2.2/23, Error ellipse: s-maj=5km s-min=0.2km az=313.0, Southern Italy

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like PLAC Placania, GMB Garbarie, SCLIA Scilla, etc.

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like GMB GMB, SCLIA Scilla, SOI Samo, etc.

GCG 17 13:47:06.6, 1.1, 13.82N:91.51W, h60km, 33km, MD4.0, ML3.8

SNET 17 13:47:08.0, 0.9, 13.69N:91.32W, h14km, 5km, ML3.7

CATAC 17 13:47:10.6, 0.7, 14.1N:4.9W, h24km, 5km, M3.7/12, ML3.7/12, Error ellipse: s-maj=10.2km s-min=6.5km az=25.1, confirmed

ISC 17 13:47:08.3, 2.4, 13.78N:0.009x124W:0.07, h7km, 11km, n40, o683/49, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Alt, P, Max, Res, and various parameters. Includes stations like STG0 El Palmer, Qui, STG8 El Palmer, Qui, ESSG Sabana Grande, etc.

IDC 17 13:47:45.9, 0.5, 65.48Sx176.62W, h0km, mb4.7/11, mbmp4.7/12, ML4.4/1, MS5.3/37, Error ellipse: s-maj=23.2km s-min=15.6km az=45.0

MOS 17 13:47:47.2, 1.6, 65.72Sx177.04W, h10km, mb5.5/9, Error ellipse: s-maj=34.6km s-min=11.5km az=94.0

NEIC 17 13:47:48.1, 2.6, 65.6S:0.1x176.1W:0.3, h10km, 1km, mb5.4/66, Ms: 20.5, 6/14, MbW5.7/23, MwW5.8/35, Error ellipse: s-maj=23.1km s-min=16.1km az=61.0, Moment tensor solution. Moment tensor: Scale 10^17Nm; Mn:0.69; M0:3.72; Mo:4.41; M0:0.35; M0:1.34; M0:0.30; Fault plane solution: Mo:4.35000x10^17 Np1:0.35.89000x, 883.64000x, 179.02000x. NP2:0.126.00000x, 589.03000x, 1.636000x. Principal axes: T 3.9658, Plg5.0000x, Azm351.0000x, Mo:0.6864, Plg84.0000x, Azm135.0000x; P -4.6522, Plg4.0000x, Azm261.0000x;

BUL 17 13:47:48.0, 65.60S:176.80W, h10km, mb5.5/1, Ms5.3/8, Ms7.5/10

GCMT 17 13:47:50.1, 0.1, 65.54Sx176.38W, h12km, MW5.7/159, Moment Tensor Solution. s139,c266; s159,c463;





17d 13h

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Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like TPNV Topopah Spring, Y22D IRIS PASSCAL I, ORV Crowl Creek, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like O16K Kokkok River B, P18K Big Mountain, N14K Kuskokwim Cree, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like MCK McKinley, H17K Granite Mounta, ULM Lac du Bonnet, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like G65A Princeton, F64A Sherman, 626A Allapont, AI, KURBB Kurchatov Arra, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like SPIG, SPIG, SPIG, SPIG, SPIG, etc.

SNET 17 14:07:59.2 1.1, 13.11N:89.84W, h54km, 16km, ML3.1
CATAC 17 14:07:59.2 0.6, 13.1N:89.84W, h23km, 3km, M3.5/19,
MLV3.5/19, Error ellipse: s-maj=6.5km s-min=3.9km
az=17.2, confirmed
GCG 17 14:08:01.4 0.8, 13.28N:89.86W, h41km, 26km, MD3.7,
ML3.4

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like LALI, LALI, LALI, LALI, LALI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like BOQS, BOQS, BOQS, BOQS, BOQS, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like LOMA, LOMA, LOMA, LOMA, LOMA, etc.

IDC 17 14:36:06.9 2.3, 31.26S:177.06W, h0km, mb3.8/2,
mbTmP3.8/3, ML3.6/1, Error ellipse: s-maj=68.9km
s-min=42.6km az=133.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like URZ, URZ, URZ, URZ, URZ, etc.

FCIAR 17 14:42:17.0, 79.94N:18.76E, h10km, station OMEGA has
magnitude of 3.50
BER 17 14:42:18.8 3.8, 80.16N:20.81E, h15km, 16km, ML2.2,
ML3.1(NAO), Confirmed Earthquake
KOLA 17 14:42:19.1, 79.89N:20.00E, h0km, ML2.3, Error ellipse:
s-maj=22.5km s-min=19.0km az=90.0, Spitsbergen

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like KBS, KBS, KBS, KBS, KBS, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like KBS, KBS, KBS, KBS, SPA0, SPA0, etc.

KRNET 17 14:51:34.6 0.1, 40.91N:74.87E, h12km, mb3.4
NNC 17 14:51:34.5 1.3, 40.80N:74.92E, h0km, mb4.0, mpv3.6,
Error ellipse: s-maj=9.2km s-min=5.9km az=179.0
SOME 17 14:51:36.2 4.1, 03N:74.87E, h10km
KNET 17 14:51:38.0 6.4 0.1, 10N:74.83E, h14km, 10km, ml2.8,
Error ellipse: s-maj=7.8km s-min=3.7km az=0.0
ISC 17 14:51:31.9 1.2, 40.79N:0.03N:74.96E, h0km, 10km,
n66, r192/108, 54C-26D, Kyrgyzstan-Xinjiang border

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, ISC, h, m, s, ISC. Includes stations like Code, Station Name, Az, Az', Phase ID, Op, ISC, etc.

MEX 17 13:52:32.7 0.4, 29.85N:114.06W, h3km, 3km, MD4.2
ECX 17 13:52:34.0 0.3, 29.86N:114.08W, h3km, 5km, ML3.7
ISC 17 13:52:31.9 1.3, 29.90N:0.06E:114.04W, 0.06,
h13km, 14km, n12, r0897/20, 4C-3D, Baja California









ARTI	comp=Z,43nm,0.5s	43.13 324c	i/P	P	15 03 44.6	-0.8
ARTI					15 05 25.8	
ARTI					15 06 01.0	
ARTI					15 10 12.3	+1.5
ARTI					15 14 03.0	
ARTI	comp=Z,385nm,1.8s					
ARTI						
BSY	comp=Z,10um,16.0s	43.20 274	P	P	15 03 46.9	+0.4
BSY	SNR=20				15 03 46.9	+0.4
BSY	SNR=20				15 10 14.0	+1.2
BSY					15 10 14.0	+1.2
SHME	Shamm	43.22 279	P	P	15 03 47.5	+1.0
SHME					15 03 47.5	+1.0
SHME					15 10 15.5	+2.6
SHME					15 10 15.5	+2.6
SHME	Shamm	43.22 279	i/P	P	15 03 47.4	+0.8
SHME	SNR=7.8				15 03 47.4	+0.8
MDH	Madha	43.27 278	P	P	15 03 48.2	+1.2
MDH					15 03 48.2	+1.2
MDH					15 10 15.9	+2.2
MDH					15 10 15.9	+2.2
MDH	Madha	43.27 278	P	P	15 03 46.4	-0.7
MASF	Masafi	43.37 278	P	P	15 03 48.7	+0.8
MASF					15 03 48.7	+0.8
SOHO	SOHO	43.38 276	P	P	15 03 48.3	+0.4
SOHO					15 03 48.3	+0.4
SOHO	SOHO	43.38 276	i/P	P	15 03 46.5	-1.3
SOHO	SNR=13				15 03 46.5	-1.3
UOSS	Minazif	43.45 277	P	P	15 03 48.1	-0.4
UOSS	Minazif	43.45 277	P	P	15 03 49.0	+0.5
UOSS					15 03 49.0	+0.5
UOSS	Minazif	43.45 277	P	P	15 03 48.4	-0.1
HATD	Hatta, Dubai	43.54 277	P	P	15 03 50.0	+0.7
HATD					15 03 50.0	+0.7
HATD	Hatta, Dubai	43.54 277	i/P	P	15 03 49.3	0.0
HATD	SNR=5.1				15 03 49.3	0.0
ARQ	Araqi	43.62 275	P	P	15 03 50.5	+0.6
ARQ	SNR=11				15 03 50.5	+0.6
ARQ					15 03 50.5	+0.6
ASHO	Ashiyah	43.65 277	P	P	15 03 50.4	+0.3
ASHO	SNR=6.2				15 03 50.4	+0.3
ASHO					15 03 50.4	+0.3
ASHO	Ashiyah	43.65 277	i/P	P	15 03 50.9	+0.8
ASHO	SNR=8.2				15 03 50.9	+0.8
DQM	DQM	43.82 270	P	P	15 03 50.9	-0.6
DQM					15 03 50.9	-0.6
NAZ	Nazwa, Dubai	43.91 277	P	P	15 03 53.4	+1.2
NAZ	SNR=8.6				15 03 53.4	+1.2
NAZ					15 03 53.4	+1.2
NAZ	Nazwa, Dubai	43.91 277	i/P	P	15 03 53.0	+0.8
NAZ	SNR=9.1				15 03 53.0	+0.8
MA2	Magadan	44.01 32	P	P	15 03 51.9	-0.6
MA2	Magadan	44.01 32	P	P	15 03 52.8	+0.3
MA2	comp=Z,30nm,0.8s,baz=240,slow=7.1,SNR=20				15 09 28.6	-0.3
MA2	comp=Z,28nm,1.0s,baz=201,slow=6.9,SNR=4.6				15 22 21.9	
MA2	comp=Z,5um,19.1s,baz=244,slow=36					
MA2	comp=Z,30nm,0.8s					
MA2	Magadan	44.01 32	P	P	15 03 53.1	+0.6
MA2	Magadan	44.01 32	i/P	P	15 03 51.1	-1.4
MA2	comp=Z,43nm,0.9s					
FAQ	Al Faqa, Dubai	44.04 277	P	P	15 03 53.8	+0.6
FAQ	SNR=8.5				15 03 53.8	+0.6
FAQ					15 03 53.8	+0.6
FAQ	Al Faqa, Dubai	44.04 277	i/P	P	15 03 53.8	+0.6
FAQ	SNR=8.3				15 03 54.0	+0.4
ALNE	Al Ain	44.09 276	P	P	15 03 54.0	+0.4
ALNE	SNR=12				15 03 54.0	+0.4
ALNE	Al Ain	44.09 276	i/P	P	15 03 54.3	+0.7
ALNE	SNR=12				15 03 48.5	-6.2
SKR	Severo-Kuril's	44.28 45	eP	S	15 10 22.7	-5.0
SKR					15 03 48.5	-6.2
SKR					15 10 22.7	-5.0
SMPI	Sarmi	44.30 127	P	P	15 03 56.9	+1.6
ASUD	Al Ashush, Dub	44.30 277	P	P	15 03 56.1	+0.8
ASUD	SNR=6.9				15 03 56.1	+0.8
ASUD					15 03 56.1	+0.8
ASUD	Al Ashush, Dub	44.30 277	i/P	P	15 03 54.5	-0.8
ASUD	SNR=6.9				15 03 54.5	-0.8
AJN	Ajban	44.62 277	P	P	15 03 57.5	-0.3
AJN	SNR=7.0				15 03 57.5	-0.3
AJN					15 03 57.5	-0.3
AJN	Ajban	44.62 277	i/P	P	15 03 58.2	+0.3
AJN	SNR=8.4				15 03 58.2	+0.3
UMZA	Um Al Zomool	45.00 275	P	P	15 04 01.7	+0.8
UMZA					15 04 01.7	+0.8
TIXI	Tiksi	45.31 10	P	P	15 04 01.4	-1.2
TIXI					15 24 28.5	
TIXI	comp=Z,12um,19.0s	45.31 10	i/P	P	15 04 01.8	-0.8
TIXI					15 04 01.8	-0.8
TIXI	comp=Z,180nm,1.3s					
TIXI						
TIXI	comp=Z,11um,16.0s					
PETK	Petrovavlovsk-	45.70 42	P	P	15 04 06.2	+0.1
PETK	Petrovavlovsk-	45.70 42	P	P	15 04 05.8	-0.3
PETK	comp=Z,9.6nm,0.9s,baz=230,slow=8.2,SNR=11				15 25 41.7	
PETK					15 25 41.7	
PETK	comp=Z,14um,18.6s,baz=257,slow=39					
PETK	Petrovavlovsk-	45.70 42	P	P	15 04 06.2	+0.1
GENI	Geniyem	45.75 126	P	P	15 04 08.5	+1.5
MZWR	Madinat Zayed	45.81 276	P	P	15 04 07.3	-0.1
MZWR					15 04 07.3	-0.1
JAY	Jayapura	46.08 126	P	P	15 04 09.8	+0.2
JAY	comp=Z,6.1nm,0.9s,baz=281,slow=6.4,SNR=20				15 04 09.8	+0.2
JAY					15 04 09.8	+0.2
JAY	comp=Z,2.6nm,0.7s,baz=121,slow=22,SNR=0.9				15 20 55.3	+0.7
JAY					15 20 55.3	+0.7
JAY	comp=Z,2um,21.9s,baz=336,slow=33					
JAY	comp=Z,6.1nm,0.9s	46.08 126	P	P	15 04 11.8	+2.3
JAY	Jayapura	46.08 126	P	P	15 04 11.8	+2.3
JAY	comp=Z,104nm,0.9s				15 04 15.8	+0.5
JAY					15 04 15.8	+0.5
SEY	Seymchan	46.15 28	P	P	15 04 10.0	+0.6
SEY	comp=Z,36nm,0.7s,baz=245,slow=7.7,SNR=46				15 09 38.5	+0.8
SEY					15 09 38.5	+0.8
SEY	comp=Z,20nm,1.1s,baz=278,slow=7.8,SNR=4.5				15 10 52.4	-2.1
SEY					15 10 52.4	-2.1
SEY	comp=Z,3.4nm,0.9s,baz=255,slow=23,SNR=1.4				15 24 30.2	
SEY					15 24 30.2	
SEY	comp=Z,14um,19.3s,baz=242,slow=37					
SEY	comp=Z,36nm,0.7s	46.15 28	i/P	P	15 04 10.1	+0.6
SEY	Seymchan	46.15 28	i/P	P	15 04 10.1	+0.6
SEY	comp=Z,32nm,0.6s					
SEY						
PET	Petrovavlovsk	46.25 42	IAMS_20	IAMS_20	15 25 48.7	
PET	Petrovavlovsk	46.25 42	eP	P	15 04 05.7	-4.7
PET					15 10 54.3	-1.8
PET					15 14 14.8	-6.5
PET	comp=Z,53nm,1.9s					
PET						
PET	comp=Z,20um,16.0s					
JRN	Qarnain Island	46.38 278	P	P	15 04 10.4	-1.4
JRN	SNR=5.3				15 04 10.4	-1.4
JRN					15 04 10.4	-1.4
MZR	Muzera	46.39 276	P	P	15 04 11.1	-0.9
MZR	SNR=16				15 04 11.1	-0.9
MZR					15 04 11.1	-0.9

Muzera	SNR=27	46.39 276	i/P	P	15 04 11.8	-0.1
GHWR	Ruwais	46.63 277	P	P	15 04 13.9	+0.2
GHWR					15 04 13.9	+0.2
DMTO	DOK	46.91 268	P	P	15 04 15.0	-0.6
DOK	Doka	47.30 270	P	P	15 04 18.0	-1.0
DOK					15 04 18.0	-1.0
SLWR	Sila	47.64 278	P	P	15 04 20.9	-0.7
RBK	Rabkut	47.65 268	P	P	15 04 21.4	-0.4
SHMA	Al-Shehemyia	47.77 280	P	P	15 04 21.5	-1.1
SHMA					15 04 26.0	-2.3
TRNA	Turayna	47.86 279	P	P	15 04 23.1	-0.3
TRNA	SNR=6.1				15 04 23.1	-0.3
WHFO	Wadi Hawf	47.87 269	P	P	15 04 22.4	-1.2
AKT	Akhty	47.89 302	eP	P	15 04 23.2	-0.3
AKT					15 05 48.5	
AKT					15 06 13.4	
AKT					15 11 19.2	-0.9
AKT	comp=Z,284nm,1.5s					
AKT						
MAK	Makhachkala	47.99 304	eP	S	15 04 23.4	-0.7
MAK					15 11 22.6	+1.3
MAK	comp=Z,286nm,1.6s					
MAK						
SAKB	Bahrain	48.10 281	P	P	15 04 24.5	-0.8
MTN	Manton Dam	48.18 145	IAMB	IAMB	15 04 31.7	
MTN	Manton Dam	48.18 145	P	P	15 04 27.0	+1.2
SMRA	Abu-Samra	48.20 279	P	P	15 04 24.9	-1.1
SMRA	SNR=12				15 04 25.7	-0.7
BELG	Belogornoye	48.30 316	i/P	P	15 04 25.7	-0.7
BELG						
BELG	comp=Z,30nm,1.0s					
BELG						
BELG	comp=Z,966nm,15.0s					
KIRV	Kirov	48.40 325	P	P	15 04 27.2	+0.2
KIRV	comp=Z,57nm,0.5s,baz=87,slow=4.4,SNR=47				15 06 20.1	+0.6
KIRV	comp=Z,30nm,0.4s,baz=99,slow=8.3,SNR=4.3				15 26 31.8	
KIRV	comp=Z,8um,21.8s,baz=115,slow=38					
KIRV	comp=Z,57nm,0.5s					
KIRV	Kirov	48.40 325	i/P	P	15 04 27.0	0.0
ABTO	Abtadu	48.50 269	P	P	15 04 27.9	-0.6
ABTO					15 04 27.9	-0.6
KDU	Kaduu	48.74 143	P	P	15 04 30.4	+0.3
KBD	Kabd	49.73 285	P	P	15 04 37.2	-0.5
GNI	Garni	50.26 300	P	P	15 04 41.8	0.0
GNI					15 04 50.1	
GNI	comp=Z,200nm,1.1s				15 28 39.8	
GNI	Garni	50.26 300	LR	LR	15 28 39.8	
GNI	comp=Z,3um,18.8s,baz=98,slow=39				15 04 41.5	-0.3
GNI	Garni	50.26 300	P	P	15 04 42.0	+0.3
GNI					15 04 42.0	+0.3
GNI	comp=Z,132nm,1.4s					
GNI						
GNI	comp=Z,3um,18.0s					
FITZ	Fitzroy Crossi	50.34 154	P	P	15 04 40.8	-0.9
FITZ	comp=Z,58nm,1.0s,baz=354,slow=6.4,SNR=38				15 04 41.7	-0.6
FITZ					15 28 05.8	
FITZ	comp=Z,2um,20.3s,baz=338,slow=39					
FITZ	comp=Z,58nm,1.0s					
FITZ	Fitzroy Crossi	50.34 154	P	P	15 04 42.5	+0.2
TRLG	Trialeti	50.60 302	P	P	15 04 44.5	+0.2
MANU	Manus Island	50.71 119	IAMB	IAMB	15 04 45.1	-0.2
MANU					15 04 50.1	
NCK	Nalchik	50.82 305	i/P	P	15 04 45.9	+0.1
NCK					15 04 45.9	+0.1
NCK	comp=Z,56nm,1.2s					
NCK						
NCK	comp=Z,5um,19.0s					
GOF	Gofitskoye	51.12 307	i/P	P	15 04 49.2	+1.2
GOF					15 12 08.1	+3.1
MBWA	Marble Bar	51.26 162	P	P	15 04 49.0	-0.2</

17d 14h

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Table with columns: SIM, SIM, comp, eS, S, 15 13 33.0 +2.9, etc. Lists various stations and their frequencies.

Table with columns: PURM Purcari, ATD Arta Tunnel, ATD Arta Tunnel, etc. Lists various stations and their frequencies.

Table with columns: TURR Tusha, FORT Forrest, FORT Forrest, etc. Lists various stations and their frequencies.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like NIKH Nikolski High, C19K Lookout Ridge, OUR Duranapolis, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like H18K Honhosa River, H18K Honhosa River, B22K Teshepuk Lake, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like SOP Sopron, DRME Dracevica, DRME Dracevica, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like N17K, N17K, ZVC, E23K, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like P17K, NEUB, NEUB, ASK, CHNA, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like H24K, H24K, RETH, SGR1, etc.

HDA	Harding Lake	72.15 26	P	P	15 07 09.2 -0.4
MOTA	Moosealm	72.15 315	eP	P	15 07 09.0 -1.0
IBBN	Ibbenburen	72.22 320	eP	P	15 07 09.8 -0.3
IBBN	baz=299,SNR=170				
IBBN	baz=296,SNR=21				
IBBN	comp=Z,224nm,1.3s,SNR=21				
IBBN	comp=Z,89nm,1.0s,ba=69,slow=6.0				
IBBN	eS				
WATI	Susitna Watana	72.26 28	P	P	15 07 09.9 -0.3
KASTN	Kahler Asten	72.28 319	eP	P	15 07 10.9 +0.3
KASTN	comp=Z,69nm,1.3s,ba=69,slow=6.0				
KASTN	eS				
CTI	Castel Tesino	72.30 313	Iamb	Iamb	15 07 14.2
RETA	Reutte	72.31 315	iP	P	15 07 09.8 -1.1
FIS	Fire Island	72.33 29	IAMS_20	IAMS_20	15 42 23.9
GUMA	Gualdo di Mace	72.33 310	Iamb	Iamb	15 07 14.7
INTR	Introdacqua	72.34 309	Iamb	Iamb	15 07 33.7
HOM	Homert	72.35 31	P	P	15 07 11.2 +0.4
CEL	Celeste	72.36 304	Iamb	Iamb	15 07 12.8
D20K	Stokes Point	72.37 20	P	P	15 07 10.8 +0.1
Q28M	Shuyak Island	72.46 32	P	P	15 07 10.4 -1.1
SYI	Shuyak Island	72.46 32	IAMS_20	IAMS_20	15 38 38.5
SII	Sitkinak Island	72.47 35	IAMS_20	IAMS_20	15 39 20.7
SII	Sitkinak Island	72.47 35	P	P	15 07 12.2 +0.6
SII	Sitkinak Island	72.47 35	P	P	15 07 10.4 -1.2
FDMO	Fiordmonte	72.51 310	Iamb	Iamb	15 07 15.8
FETA	Feichten	72.51 314	iP	P	15 07 11.4 -0.9
E28M	Babbage River	72.53 20	Iamb	Iamb	15 07 14.3
E28M	Babbage River	72.53 20	P	P	15 07 11.9 +0.1
AQU	Rabbit Creek A	72.55 309	P	P	15 07 13.2 +0.8
RC01	Rabbit Creek A	72.56 29	Iamb	Iamb	15 07 13.8
RC01	Rabbit Creek A	72.56 29	P	P	15 07 11.6 -0.4
NRCA	Norcia	72.57 310	Iamb	Iamb	15 07 16.2
PMR	Palmer	72.59 29	Iamb	Iamb	15 07 14.5
PMR	Palmer	72.59 29	IAMS_20	IAMS_20	15 36 56.8
PMR	Palmer	72.59 29	P	P	15 07 13.2 +1.0
PMR	Palmer	72.59 29	P	P	15 07 11.8 -0.4
GHO	Glory Hole Cre	72.59 29	Iamb	Iamb	15 07 20.1
GHO	comp=Z,65nm,0.9s				
CNPM	China Poot	72.60 31	Iamb	Iamb	15 07 16.9
CNPM	comp=Z,161nm,1.6s				
SLKM	Skialk Lake	72.61 30	IAMS_20	IAMS_20	15 39 28.4
DHY	Denali Highway	72.62 27	IAMS_20	IAMS_20	15 37 15.4
DHY	Denali Highway	72.62 27	P	P	15 07 11.6 -0.9
OHAK	Old Harbor	72.63 34	Iamb	Iamb	15 07 16.5
OHAK	comp=Z,65nm,0.8s				
OHAK	comp=Z,81nm,20.0s				
OHAK	Old Harbor	72.63 34	P	P	15 07 15.0 +2.5
OHAK	Old Harbor	72.63 34	P	P	15 07 12.0 -0.5
UBR	Ueberuhr	72.64 315	eP	P	15 07 11.9 -1.0
TNS	Taunus Mts	72.65 318	eP	P	15 07 12.4 -0.5
J25K	Salcha River	72.65 25	P	P	15 07 11.4 -1.2
BRLK	Bradley Lake	72.65 31	Iamb	Iamb	15 07 17.1
BRLK	comp=Z,108nm,1.1s				
WAT6	Susitna Watana	72.71 28	P	P	15 07 12.0 -1.1
BRSE	Bradley Lake S	72.73 31	P	P	15 07 12.2 -0.9
KDAK	Kodiak Island	72.73 33	P	P	15 07 12.7 -0.4
KDAK	comp=Z,204nm,1.2s				
KDAK	Kodiak Island	72.73 33	IAMS_20	IAMS_20	15 39 55.7
KDAK	Kodiak Island	72.73 33	LR	LR	15 40 38.9
KDAK	Kodiak Island	72.73 33	eP	P	15 07 13.5 +0.4
KDAK	comp=Z,180nm,1.4s				
KDAK	comp=Z,71nm,18.0s				
KDAK	Kodiak Island	72.73 316	P	P	15 07 14.3 +0.7
KDAK	Stuttgart	72.78 316	eP	P	15 07 13.7 +0.1
KDAK	Stuttgart	72.78 316	eP	P	15 07 13.1 -0.5
KDAK	comp=Z,180nm,0.6s,ba=69,slow=6.0				
KDAK	eS				
SML	Sawmill	72.83 28	IAMS_20	IAMS_20	15 38 29.0
SML	Sawmill	72.83 28	P	P	15 07 13.6 -0.1
G27K	Doyon Strip	72.83 22	P	P	15 07 14.1 +0.5
BUG	Bochum-Univer	72.84 320	eP	P	15 07 13.5 -0.4
BUG	comp=Z,109nm,1.1s,ba=69,slow=6.0				
BUG	eS				
O22K	Cooper Landing	72.84 30	Iamb	Iamb	15 07 37.1
O22K	Cooper Landing	72.84 30	P	P	15 07 13.8 +0.1
K24K	Donnelly Dome	72.89 26	P	P	15 07 13.4 -0.6
DAVA	Damuels	72.94 315	iP	P	15 07 14.0 -0.8
KNK	Knik Glacier	72.96 29	Iamb	Iamb	15 07 16.6
KNK	comp=Z,211nm,1.6s				
KNK	comp=Z,71nm,18.0s				
KNK	Knik Glacier	72.96 29	P	P	15 07 14.8 +0.4
KNK	comp=Z,298,SNR=17				
FUORN	Ofenpass-Fuorn	72.96 314	IAMS_20	IAMS_20	15 41 41.9
F28M	Old Crow	72.98 21	P	P	15 07 15.0 +0.6
ABPO	Ambohpanom	72.99 237	P	P	15 07 14.5 -0.9
ABPO	comp=Z,81nm,1.1s				
ABPO	Ambohpanom	72.99 237	IAMS_20	IAMS_20	15 35 45.2
ABPO	Ambohpanom	72.99 237	P	P	15 07 14.5 -0.9
ABPO	comp=Z,81nm,1.2s				
ABPO	Glacier View	73.09 28	P	P	15 07 15.4 +0.2
I26K	Coal Creek Min	73.11 24	IAMS_20	IAMS_20	15 39 45.3
I26K	Coal Creek Min	73.11 24	P	P	15 07 15.2 0.0
SEW	Seward	73.14 30	Iamb	Iamb	15 07 19.7
SEW	Seward	73.14 30	P	P	15 07 16.6 +1.2
DAVOX	Davos/Disnacht	73.14 314	LR	LR	15 42 06.5
DAVOX	comp=Z,91m,18.8s,ba=63,slow=38				
E29M	Blow River	73.16 20	IAMS_20	IAMS_20	15 41 03.4
E29M	Blow River	73.16 20	P	P	15 07 15.7 +0.2
H27K	Steamboat Moun	73.19 23	P	P	15 07 16.4 +0.7
SCM	Sheep Creek Mo	73.23 28	Iamb	Iamb	15 07 47.6
SCM	comp=Z,71nm,21.0s				
SCM	Sheep Creek Mo	73.23 28	IAMS_20	IAMS_20	15 38 53.8
SCM	comp=Z,299,SNR=30				
PWL	Port Wells	73.27 29	Iamb	Iamb	15 07 18.3
PWL	comp=Z,235nm,1.6s				
PWL	comp=Z,71nm,20.0s				
PWL	Port Wells	73.27 29	P	P	15 07 16.1 -0.2
RIDG	Independent Hi	73.28 26	P	P	15 07 15.6 -0.8
RIDG	comp=Z,300,SNR=52				
LRW	Lerwick	73.34 330	eP	P	15 07 16.9 +0.3
LRW	comp=Z,106nm,0.7s				
LRW	comp=Z,61m,16.0s				
J26L	Joseph Creek	73.38 25	Iamb	Iamb	15 07 19.1
J26L	comp=Z,119nm,0.8s				
J26L	Joseph Creek	73.38 25	P	P	15 07 16.1 -0.9
ZCCA	Zocca	73.40 312	Iamb	Iamb	15 07 32.2
ZCCA	comp=Z,115nm,0.9s				
ZCCA	comp=Z,71m,21.0s				
PAX	Paxson	73.43 27	IAMS_20	IAMS_20	15 37 29.9
PAX	comp=Z,91m,22.0s				
PAX	Paxson	73.43 27	P	P	15 07 16.2 -1.1
NEEM	North Greenlan	73.44 355	iP	P	15 07 17.4 0.0
NEEM	comp=Z,338nm,1.1s				
BFO	Black Forest	73.48 316	P	P	15 07 17.6 -0.2
BFO	comp=Z,96nm,0.9s				
BFO	Black Forest	73.48 316	P	P	15 07 17.6 -0.2
BFO	comp=Z,96nm,0.9s				
BFO	Black Forest	73.48 316	eP	P	15 07 17.0 -0.8
BFO	comp=Z,63nm,0.8s,ba=69,slow=6.0				
BFO	eS				
ARPS	Mount Arapalies	73.49 150	P	P	15 07 19.0 +1.3
SCRK	Sand Creek	73.49 25	Iamb	Iamb	15 07 19.4
SCRK	comp=Z,141nm,1.3s				
SCRK	Sand Creek	73.49 25	P	P	15 07 17.2 -0.5
I27K	Kandik River	73.50 23	P	P	15 07 18.2 +0.6
I27K	comp=Z,300,SNR=99				
ARMA	Armidale	73.50 139	P	P	15 07 22.4
ARMA	comp=Z,84nm,1.1s				
OSSC	Osservatorio P	73.55 311	Iamb	Iamb	15 07 21.2
OSSC	comp=Z,209nm,1.5s				
M24K	Tolsona, Glenn	73.58 28	IAMS_20	IAMS_20	15 43 20.8
M24K	comp=Z,71m,20.0s				
M24K	Tolsona, Glenn	73.58 28	P	P	15 07 18.8 +0.6
M24K	comp=Z,300,SNR=21				
TUE	Stuetta	73.60 314	Iamb	Iamb	15 07 22.0
TUE	comp=Z,77nm,0.7s				
DOT	Dot Lake	73.63 26	IAMS_20	IAMS_20	15 37 32.1
GLI	Glacier Island	73.80 29	IAMS_20	IAMS_20	15 39 31.7
GLI	comp=Z,61m,18.0s				
GLI	Glacier Island	73.80 29	P	P	15 07 19.6 +0.2
HARP	HARP	73.84 27	P	P	15 07 20.3 +0.7
HARP	comp=Z,300,SNR=11				
BTNL	Ternell	73.85 319	eP	P	15 07 19.4 -0.5
MEM	Membach	73.91 319	eP	P	15 07 20.1 -0.1
MEM	comp=Z,33nm,1.0s				
G29M	Pine Creek	73.97 21	Iamb	Iamb	15 07 22.5
G29M	comp=Z,250nm,1.6s				
G29M	Pine Creek	73.97 21	IAMS_20	IAMS_20	15 43 55.0
G29M	comp=Z,81m,19.0s				
G29M	Pine Creek	73.97 21	P	P	15 07 20.3 0.0
KLU	Klutina	73.99 28	Iamb	Iamb	15 07 26.3
KLU	comp=Z,197nm,1.1s				
KLU	Klutina	73.99 28	P	P	15 07 20.7 +0.1
BEEN	Eben Enael	74.02 319	eP	P	15 07 21.4 +0.6
P23K	Montage Island	74.09 30	Iamb	Iamb	15 07 23.4
P23K	comp=Z,206nm,1.5s				
P23K	Montage Island	74.09 30	IAMS_20	IAMS_20	15 40 32.6
FID	Port Fidalgo	74.12 29	IAMS_20	IAMS_20	15 39 41.2
FID	comp=Z,81m,18.0s				
A36M	Sao Harbor	74.13 14	P	P	15 07 21.9 +0.8
A36M	comp=Z,315,SNR=30				
I28M	Miner Creek	74.17 23	Iamb	Iamb	15 07 24.0
I28M	comp=Z,191nm,1.6s				
I28M	Miner Creek	74.17 23	P	P	15 07 21.5 -0.1
I28M	comp=Z,300,SNR=76				
BSTI	Sart Tilman	74.17 319	eP	P	15 07 21.5 -0.2
K27K	Chicken	74.18 25	Iamb	Iamb	15 07 24.2
K27K	comp=Z,287nm,1.6s				
K27K	Chicken	74.18 25	IAMS_20	IAMS_20	15 38 00.6
K27K	comp=Z,91m,20.0s				
K27K	Chicken	74.18 25	P	P	15 07 22.2 +0.6
WLF	Walferdang	74.23 318	IAMS_20	IAMS_20	15 44 03.0
WLF	comp=Z,51m,18.0s				
WLF	Walferdang	74.23 318	eP	P	15 07 22.3 +0.1
WLF	comp=Z,132nm,0.9s				
WLF	Walferdang	74.23 318	eP	P	15 07 22.2 +0.1
WLF	comp=Z,124nm,0.7s,ba=69,slow=6.0				
WLF	eS				





PCAB	comp=Z,141nm,2.2s	ePP	PP	15 12 03.3	+12
POLO	Lamas de Olo	86.85 316	eP	15 08 30.9	+0.8
POLO	comp=Z,48nm,1.6s	i Amb		15 08 34.6	
PVRL	Vila Real	86.86 316	eP	15 08 30.8	+0.7
PVRL	comp=Z,100nm,1.7s	i Amb		15 08 34.4	
TAM	Tamarrasset	87.18 294	Iamb	15 08 36.5	
MTE	Manteigas	87.26 315	Iamb	15 08 34.7	
MTE	Manteigas	87.26 315	eP	15 08 33.3	+1.3
MTE	comp=Z,140nm,1.6s	i Amb		15 08 36.9	
MTE		ePP	PP	15 11 54.1	-1.5
MTE		eLQ	LQ	15 41 41.1	
MTE		i AMs_20		15 54 12.8	
MTE	comp=Z,2um,16.0s				
MTE	Manteigas	87.26 315	eP	15 08 33.0	+1.0
MTE	Visu	87.29 315	eP	15 08 33.4	+1.2
MTE	Visu	87.29 315	ePP	15 11 51.8	-4.0
MTE	BBB	87.36 30	IAMs_20	15 45 09.3	
MTE	Bella Bella	87.36 30	LR	15 47 58.0	
MTE	Bella Bella	87.36 30	LR	15 47 58.0	
MTE	PTO	87.48 316	eP	15 08 34.5	+1.5
MTE	PCBR	87.54 315	eP	15 08 34.0	+0.7
MTE	PCBR	87.54 315	i Amb	15 08 37.7	
MTE	comp=Z,72nm,1.7s				
MTE	Narsarsuaq	87.60 346	ePP	15 12 00.9	+3.2
MTE	Narsarsuaq	87.60 346	IAMs_20	15 51 13.5	
MTE	Narsarsuaq	87.60 346	i P	15 08 32.6	-0.5
MTE	Narsarsuaq	87.60 346	Iamb	15 08 34.0	
MTE	Marv??o	87.72 314	eP	15 08 34.9	+0.7
MTE	PMRV	87.72 314	i Amb	15 08 39.4	
MTE	comp=Z,99nm,1.8s				
MTE	PMRV	87.72 314	ePP	15 12 00.4	+1.2
MTE	PMRV	87.72 314	LQ	15 42 41.4	
MTE	PMRV	87.72 314	i AMs_20	15 51 11.9	
MTE	comp=Z,2um,20.0s				
MTE	Coimbra	87.91 315	Iamb	15 08 38.3	
MTE	Coimbra	87.91 315	eP	15 08 35.9	+0.9
MTE	Coimbra	87.91 315	i Amb	15 08 40.0	
MTE	comp=Z,143nm,2.0s				
MTE	PCAS	88.05 315	eP	15 08 36.8	+1.0
MTE	PCAS	88.05 315	i Amb	15 08 40.2	
MTE	comp=Z,86nm,2.0s				
MTE	PSARD	88.11 315	eP	15 08 37.1	+1.0
MTE	PSARD	88.11 315	i Amb	15 08 40.6	
MTE	IVI	88.11 347	IAMs_20	15 49 11.0	
MTE	IVI	88.11 347	i P	15 08 35.2	-0.4
MTE	IVI	88.11 347	Iamb	15 08 37.3	
MTE	Estremoz	88.17 314	eP	15 08 37.0	+0.6
MTE	PESTR	88.17 314	i Amb	15 08 40.7	
MTE	comp=Z,62nm,1.4s				
MTE	PESTR	88.17 314	ePP	15 12 03.2	+0.3
MTE	PESTR	88.17 314	PP	15 08 37.1	+0.5
MTE	PESTR	88.17 314	i Amb	15 08 41.8	
MTE	comp=Z,108nm,1.7s				
MTE	MPAT	88.28 246	ePP	15 12 05.2	+1.9
MTE	MPAT	88.28 246	LR	15 45 41.0	
MTE	HOLB	88.45 31	Iamb	15 08 40.8	
MTE	HOLB	88.45 31	Iamb	15 08 40.8	
MTE	comp=Z,81nm,0.9s				
MTE	HOLB	88.45 31	IAMs_20	15 50 22.2	
MTE	PMTG	88.46 314	eP	15 08 38.0	+0.3
MTE	PMTG	88.46 314	i Amb	15 08 41.9	
MTE	comp=Z,83nm,1.6s				
MTE	PSBE	88.56 315	ePP	15 12 01.4	-3.8
MTE	PSBE	88.56 315	eP	15 08 39.2	+1.0
MTE	PSBE	88.56 315	i Amb	15 08 43.9	
MTE	comp=Z,207nm,1.8s				
MTE	EVO	88.64 314	eP	15 08 39.5	+1.0
MTE	EVO	88.64 314	i Amb	15 08 43.0	
MTE	comp=Z,100nm,1.7s				
MTE	PBEJ	88.84 313	ePP	15 12 08.2	+1.6
MTE	PBEJ	88.84 313	eP	15 08 40.4	+0.9
MTE	PBEJ	88.84 313	i Amb	15 08 44.0	
MTE	comp=Z,105nm,1.5s				
MTE	PVAQ	89.11 313	ePP	15 12 10.9	+2.7
MTE	PVAQ	89.11 313	Iamb	15 08 44.6	
MTE	PVAQ	89.11 313	eP	15 08 41.7	+0.9
MTE	PVAQ	89.11 313	i Amb	15 08 45.2	
MTE	comp=Z,97nm,1.8s				
MTE	MESJ	89.17 313	ePP	15 12 13.3	+2.0
MTE	MESJ	89.17 313	eP	15 08 41.2	+0.1
MTE	MESJ	89.17 313	IAMs_20	15 53 39.9	
MTE	MESJ	89.17 313	Iamb	15 08 43.5	
MTE	MESJ	89.17 313	eP	15 08 42.1	+1.0
MTE	MESJ	89.17 313	i Amb	15 08 45.6	
MTE	comp=Z,126nm,1.7s				
MTE	MESJ	89.17 313	ePP	15 12 13.1	+2.2
MTE	PCVE	89.18 313	eP	15 08 42.0	+0.8
MTE	PCVE	89.18 313	i Amb	15 08 46.4	
MTE	comp=Z,79nm,1.9s				
MTE	PBDV	89.34 313	ePP	15 12 13.1	+2.2
MTE	PBDV	89.34 313	eP	15 08 43.1	+1.2
MTE	PBDV	89.34 313	i Amb	15 08 47.5	
MTE	comp=Z,135nm,1.9s				
MTE	PBDV	89.34 313	ePP	15 12 14.4	+2.2
MTE	POGA	89.40 238	Iamb	15 08 45.4	
MTE	POGA	89.40 238	IAMs_20	15 46 38.9	
MTE	comp=Z,5um,20.0s				
MTE	BROD	89.56 246	i P	15 08 42.0	-1.2
MTE	MIDL	89.61 307	LR	15 56 06.5	
MTE	MIDL	89.61 307	LR	15 56 06.5	
MTE	comp=Z,684nm,18.7s				
MTE	PTEO	89.67 313	eP	15 08 44.6	+1.2
MTE	PTEO	89.67 313	i Amb	15 08 49.0	
MTE	comp=Z,110nm,1.8s				
MTE	MORF	89.77 313	ePP	15 12 17.2	+2.4
MTE	MORF	89.77 313	eP	15 08 44.0	+0.1
MTE	MORF	89.77 313	IAMs_20	15 46 44.5	
MTE	comp=Z,4um,22.7s				
MTE	MORF	89.77 313	Iamb	15 08 46.4	
MTE	comp=Z,71nm,1.3s				
MTE	MORF	89.77 313	eP	15 08 45.0	+1.0
MTE	MORF	89.77 313	i Amb	15 08 49.3	
MTE	comp=Z,117nm,1.9s				
MTE	MORF	89.77 313	ePP	15 12 17.6	+1.9
MTE	MORF	89.77 313	PP	15 08 44.0	+0.1
MTE	PVFI	89.98 313	eP	15 08 46.0	+1.1
MTE	PVFI	89.98 313	i Amb	15 08 49.5	
MTE	comp=Z,86nm,1.6s				
MTE	PVFI	89.98 313	ePP	15 12 19.4	+2.1
MTE	QZB	90.51 130	P	15 08 48.6	+1.5
MTE	QZB	90.51 130	Iamb	15 08 51.9	
MTE	comp=Z,117nm,1.4s				
MTE	AVE	91.28 309	Iamb	15 08 55.0	
MTE	AVE	91.28 309	Iamb	15 08 55.0	
MTE	comp=Z,73nm,1.0s				
MTE	CLRS	91.55 30	Iamb	15 08 55.3	
MTE	CLRS	91.55 30	IAMs_20	15 48 26.3	
MTE	comp=Z,5um,21.0s				
MTE	FCC	91.77 10	IAMs_20	15 51 12.4	
MTE	comp=Z,4um,20.0s				
MTE	LPHGP	91.87 245	i P	15 08 52.8	-1.1
MTE	PGC	91.98 30	IAMs_20	15 52 36.2	
MTE	PGC	91.98 30	IAMs_20	15 52 36.2	
MTE	comp=Z,4um,18.0s				
MTE	NLWA	92.74 31	Iamb	15 09 01.3	
MTE	NLWA	92.74 31	Iamb	15 09 01.3	
MTE	comp=Z,5um,19.0s				
MTE	NLWA	92.90 243	Iamb	15 08 59.5	
MTE	LBTB	92.90 243	LR	15 48 49.5	
MTE	LBTB	92.90 243	LR	15 48 49.5	
MTE	comp=Z,1um,21.7s				
MTE	QZB	93.03 195	P	15 08 59.8	+1.1
MTE	GRW	93.08 30	Iamb	15 09 02.6	
MTE	Green Mountain	93.08 30	Iamb	15 09 02.6	
MTE	comp=Z,50nm,1.4s				
MTE	E03A	93.51 31	IAMs_20	15 50 49.2	
MTE	E03A	93.51 31	IAMs_20	15 50 49.2	
MTE	comp=Z,6um,20.0s				
MTE	KUQU	93.68 356	Iamb	15 09 02.3	
MTE	KUQU	93.68 356	Iamb	15 09 02.3	

KUQU	comp=Z,3um,19.0s				
KUQU	Rata Peaks	93.83 138	P	15 09 03.2	+0.9
KUQU	Colville Reser	93.95 28	Iamb	15 09 05.9	
KUQU	comp=Z,55nm,1.6s				
KUQU	SKOMA	93.97 244	i P	15 09 02.1	-1.5
KUQU	Sekoma	93.97 244	P	15 09 02.1	-1.4
KUQU	Flin Flon	94.07 15	Iamb	15 09 05.3	
KUQU	FFC	94.07 15	IAMs_20	15 52 47.2	
KUQU	Flin Flon	94.07 15	P	15 09 02.1	-1.4
KUQU	FFC	94.07 15	Pmax	15 09 02.1	-1.4
KUQU	comp=Z,90nm,1.5s				
KUQU	FFC	94.07 15	MLR	15 09 02.1	-1.4
KUQU	comp=Z,6um,20.0s				
KUQU	F04D	94.11 31	IAMs_20	15 50 27.1	
KUQU	Rainier, OR	94.11 31	IAMs_20	15 50 27.1	
KUQU	comp=Z,4um,20.0s				
KUQU	HEBO	94.42 32	IAMs_20	15 51 47.3	
KUQU	Mount Hebo	94.42 32	IAMs_20	15 51 47.3	
KUQU	comp=Z,4um,20.0s				
KUQU	CASY	94.43 178	P	15 09 04.0	-0.5
KUQU	Casey	94.43 178	P	15 09 04.0	-0.5
KUQU	BKZ	94.62 132	P	15 09 06.8	+0.6
KUQU	BKZ	94.62 132	Iamb	15 09 08.4	
KUQU	RTZ	94.64 132	Iamb	15 09 08.4	
KUQU	comp=Z,76nm,1.1s				
KUQU	G03D	94.65 32	IAMs_20	15 51 41.4	
KUQU	McMinville, O	94.65 32	IAMs_20	15 51 41.4	
KUQU	comp=Z,5um,20.0s				
KUQU	GRTLA	94.65 248	i P	15 09 07.5	+0.8
KUQU	Ghanzi	94.65 248	IAMs_20	15 53 37.9	
KUQU	Chrisman Ranch	94.83 28	IAMs_20	15 50 37.5	
KUQU	comp=Z,5um,20.0s				
KUQU	NEW	94.92 27	IAMs_20	15 49 50.1	
KUQU	Newport	94.92 27	IAMs_20	15 49 50.1	
KUQU	comp=Z,5um,18.0s				
KUQU	NEW	94.92 27	LR	15 54 21.3	
KUQU	comp=Z,2um,20.9s				
KUQU	MXC	94.94 29	IAMs_20	15 49 28.8	
KUQU	Moxie City	94.94 29	IAMs_20	15 49 28.8	
KUQU	comp=Z,4um,22.0s				
KUQU	BOSA	94.94 29	P	15 09 06.3	-1.7
KUQU	Boshof	94.94 29	P	15 09 06.3	-1.7
KUQU	comp=Z,15nm,0.6s				
KUQU	BOSA	94.94 29	LR	15 51 05.5	
KUQU	comp=Z,2um,20.2s				
KUQU	comp=Z,15nm,0.6s				
KUQU	COR	95.10 32	IAMs_20	15 49 55.4	
KUQU	Corvallis	95.10 32	IAMs_20	15 49 55.4	
KUQU	comp=Z,2um,21.0s				
KUQU	E07A	95.14 29	IAMs_20	15 50 00.3	
KUQU	Sunnyside	95.14 29	IAMs_20	15 50 00.3	
KUQU	comp=Z,4um,22.0s				
KUQU	TORD	95.19 28	LR	15 56 23.2	
KUQU	Torodi Ar. Bea	95.19 28	LR	15 56 23.2	
KUQU	comp=Z,2um,19.3s				
KUQU	H08A	95.15 28	IAMs_20	15 50 47.4	
KUQU	Wolman Farm,	95.15 28	IAMs_20	15 50 47.4	
KUQU	comp=Z,3um,18.0s				
KUQU	D00A	95.31 31	IAMs_20	15 51 48.7	
KUQU	Mount Hood Mea	95.31 31	IAMs_20	15 51 48.7	
KUQU	comp=Z,4um,19.0s				
KUQU	HAWA	95.41 29	IAMs_20	15 50 07.4	
KUQU	Hanford	95.41 29	IAMs_20	15 50 07.4	
KUQU	comp=Z,5um,21.0s				
KUQU	H04D	95.42 32	IAMs_20	15 51 04.7	
KUQU	Lebanon	95.42 32	IAMs_20	15 51 04.7	
KUQU	comp=Z,4um,22.0s				
KUQU	G05A	95.52 31	IAMs_20	15 51 01.4	
KUQU	Warm	95.52 31	IAMs_20	15 51 01	

17d 14h

Table with columns: Station, Name, Time, Date, and other details. Includes stations like J61A Chester, L42A Oliver, MEDO Medina, etc.

2019 JUN

Table with columns: Station, Name, Time, Date, and other details. Includes stations like MNXT Cornudas, CBN Corbin, TBI Tubuai, etc.

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Table with columns: Station, Name, Time, Date, and other details. Includes stations like GTBY Comitan, PETF Flores, SDDR Presa de Saban, etc.

DJA 17 14:57:50.0, 2, 8'S, 3°11'E, h10km, M4.1/15, mb4.2/4, Mlv4.0/15, Sumbawa region

Table with columns: Code, Station Name, Time, Date, and other details. Includes stations like TWSI Taliwang, PLAI Plampang, SRBI Singaraja, etc.

IDC 17 15:02:34.9,7.5,28:39N:104:79E,h0km,mb3.9/4,  
mbtmp4.0/4,Error ellipse: s-maj=162.2km s-min=38.4km  
az=122.0  
NEIC 17 15:02:37.5,1.0,28:4N:0:1:104:8E:0:1,h10km,1km,  
mb4.9/18,Error ellipse: s-maj=24.3km s-min=18.1km  
az=316.0  
ISC 17 15:02:38.4,0.9,28:4N:0:1:104:8E:0:1,h19km,n24,  
c0570/24,mb4.8/7,Sichuan

Code	Station Name	Δ° AZZ'	Phase ID	Time Res	ISC
ENH	Enshi	4.54 64	Ph Pn	15 07 45.3	+1.3
TJN	Taejon	20.66 61	P	15 07 16.9	-0.2
JOW	Kunigami	20.88 89	P	15 07 18.8	-0.8
JOW	comp=Z,95nm,1.5s		Iamb	15 07 31.6	
JOW	Kunigami	20.88 89	P	15 07 18.6	-1.0
JOW	comp=Z,9.9nm,1.0s,baz=23,slow=22,SNR=1.4		Iamb		
KS19	Wonju Array Si	21.38 59	P	15 07 24.5	-0.4
KSRS	Korea Array	21.41 59	P	15 07 23.6	-1.5
JOW	comp=Z,2.2nm,0.7s,baz=240,slow=10,SNR=4.0		Iamb		
MJB9	Matsu-Tunnel	29.26 65	P	15 08 38.0	-1.4
MJB9	comp=Z,1.6nm,0.9s,baz=337,slow=8.1,SNR=2.3		Iamb	15 08 38.2	
KAPI	Kappang	36.18 154	P	15 09 40.7	+0.7
HMDM	Hanimaadho	36.78 240	P	15 09 45.0	-0.2
YAK	Yakutsk	37.48 19	P	15 09 51.2	+0.6
MTN	Mannton Dam	48.25 145	P	15 11 19.1	+0.8
WB0	Warramunga Arr	55.75 146	P	15 12 13.9	-0.2
WRA	Warramunga Arr	55.88 146	P	15 12 14.7	-0.3
JOW	comp=Z,1.3nm,0.8s,baz=337,slow=7.5,SNR=10		Iamb		
ASAR	Alice Springs	58.85 149	P	15 12 35.6	-0.5
CTAO	Charters Tower	62.66 136	P	15 13 02.0	0.0
FORT	Forrest	62.86 158	P	15 13 03.0	-0.1
C19K	Lookout Ridge	65.80 23	P	15 13 22.3	+0.2
D19K	Kuna River	66.49 24	P	15 13 26.4	-0.1
D20K	Etiivuk River	66.94 23	P	15 13 29.1	-0.2
L16K	Owhat River	68.08 31	P	15 13 36.5	-0.1
L16K	comp=Z,1.3nm,1.4s		Iamb	15 14 02.6	
J19K	Poorman	68.95 28	P	15 13 41.9	-0.1
J19K	comp=Z,1.2nm,1.5s		Iamb	15 13 47.6	
E24K	Your Creek	69.97 23	P	15 13 46.7	+0.4
CCB	Clear Creek Bu	71.77 26	P	15 13 53.3	0.0
CCB	comp=Z,1.8nm,1.8s		Iamb	15 14 01.2	
BCAR	Beaver Creek A	74.88 26	P	15 14 17.0	-0.6

IDC 17 15:03:07.5,7.1,28:19N:105:00E,h0km,mb4.2/4,  
mbtmp4.3/4,Error ellipse: s-maj=154.8km s-min=36.1km  
az=122.0  
NEIC 17 15:03:08.0,0.9,28:31N:0:1:104:8E:0:1,h10km,1km,  
mb4.9/23,Error ellipse: s-maj=21.5km s-min=11.9km  
az=230.0  
ISC 17 15:03:09.6,0.9,28:3N:0:1:104:8E:0:1,h19km,n30,  
c0566/30,mb4.8/8,Sichuan

Code	Station Name	Δ° AZZ'	Phase ID	Time Res	ISC
ENH	Enshi	4.50 63	Op Pn	15 07 17.9	+1.1
YON	Yonaguni jima	16.73 99	Ph Pn	15 07 02.8	-0.2
ULN	Ulanbaatar	19.59 4	P	15 07 36.0	-0.6
JOW	Kunigami	20.82 89	P	15 07 49.8	-0.4
JOW	Kunigami	20.82 89	P	15 07 49.7	-0.4
JOW	comp=Z,7.8nm,0.5s,baz=256,slow=4.2,SNR=4.6		Iamb	15 07 49.8	
KS19	Wonju Array Si	21.35 59	P	15 07 55.6	0.0
KSRS	Korea Array	21.38 59	P	15 07 55.4	-0.5
JOW	comp=Z,3.5nm,0.7s,baz=239,slow=6.9,SNR=5.8		Iamb	15 07 55.4	
JNU	Nakatsue	22.87 71	P	15 08 11.4	-0.6
KULM	Kulim	23.25 191	P	15 08 17.3	+1.4
KULM	comp=Z,1.8nm,0.9s		Iamb	15 08 20.3	
WB0	Warramunga Arr	55.70 146	P	15 12 44.3	-0.6
WRAB	Tennant Creek	55.82 146	P	15 12 46.2	+0.4
WRA	Warramunga Arr	55.82 146	P	15 12 45.0	-0.8
WRA	Warramunga Arr	55.82 146	P	15 12 44.9	-0.9
JOW	comp=Z,4.7nm,0.9s,baz=337,slow=6.3,SNR=9.4		Iamb	15 12 44.9	
WB2	Warramunga Arr	55.83 146	P	15 12 45.2	-0.7
WR8	Warramunga Arr	55.91 146	P	15 12 45.6	-0.8
WR0	Warramunga Arr	55.93 146	P	15 12 45.7	-0.9
COEN	Coen	56.07 133	P	15 12 47.3	+0.4
COEN	comp=Z,1.8nm,1.2s		Iamb	15 13 49.8	
AS31	Alice Springs	58.79 149	P	15 13 06.2	-0.6
ASAR	Alice Springs	58.79 149	P	15 13 06.7	-0.1
JOW	comp=Z,2.8nm,0.6s,baz=328,slow=6.9,SNR=8.8		Iamb	15 13 06.7	
B20K	Meade River	66.36 22	P	15 13 56.9	+0.2
N17K	Nushagak Hills	69.53 32	P	15 14 17.5	+0.7
E23K	Chandalar	69.60 23	P	15 14 17.4	+0.2
SCTE	Santa Cesarea	69.79 305	P	15 14 18.6	-0.1
BPWW	Bear Paw Mtn.	70.78 27	P	15 14 24.6	+0.2
BPWW	comp=Z,9.1nm,1.4s		Iamb	15 14 35.9	
P18K	Big Mountain,	70.87 32	P	15 14 26.0	+0.9
BMAR	Burnt Mountain	71.59 22	P	15 14 29.9	+0.2
PRP	Porcupine Dome	72.21 24	P	15 14 33.0	-0.2
G27K	Doyon Strip	72.89 22	P	15 14 37.5	+0.4
G27K	comp=Z,2.1nm,1.0s		Iamb	15 15 10.0	
J26L	Joseph Creek	73.44 25	P	15 14 39.8	-0.6
J26L	comp=Z,1.8nm,1.9s		Iamb	15 14 41.0	
BCAR	Beaver Creek A	74.88 26	P	15 14 49.7	+0.9

IDC 17 15:09:00.4,0.9,28:31N:104:88E,h0km,mb4.0/8,  
mbtmp4.0/9,ML3.9/1,Error ellipse: s-maj=27.3km  
s-min=17.5km az=48.0  
NEIC 17 15:09:02.5,1.3,28:39N:0:08:104:89E:0:05,h10km,1km,  
mb4.6/22,Error ellipse: s-maj=14.8km s-min=5.3km  
az=155.0  
ISC 17 15:09:03.7,0.5,28:40N:0:04:104:83E:0:05,h19km,n46,  
c135/51,mb4.6/20,Sichuan

Code	Station Name	Δ° AZZ'	Phase ID	Time Res	ISC
CD2	Chengdu	2.67 340	Op Pn	15 24 16.9	+0.5
CD2	CD2		Ph Pn	15 24 16.9	+0.5
CD2	CD2		Pg Pn	15 24 24.8	+2.8
CD2	CD2		Sg Pn	15 24 50.8	+0.8
CD2	CD2		Sg Sg	15 25 01.0	-1.7
CD2	comp=N,400nm,0.7s		smax smax		
PZH	PanZhiHua	3.62 239	Pg Pn	15 24 36.4	+0.4
PZH	comp=N,40nm,0.7s		smax smax		
ENH	Enshi	4.17 62	Ph Pn	15 24 36.6	+1.4
CMAR	Chiang Mai Arr	11.45 212	Ph Pn	15 26 18.1	+3.1
JOW	comp=Z,0.2nm,0.3s,baz=19,slow=11,SNR=5.4		Iamb	15 26 18.1	
EVN	Everest	16.23 273	P	15 27 19.1	-1.1
SONM	Songino Array	19.42 2	P	15 27 58.6	+0.8
JOW	comp=Z,0.5nm,0.6s,baz=181,slow=11,SNR=2.3		Iamb	15 27 58.6	
MKAR	Makanchi Array	25.67 322	P	15 28 58.1	-3.1
MKAR	Makanchi Array	25.67 322	P	15 29 01.9	+0.7
JOW	comp=Z,0.8nm,0.8s,baz=119,slow=9.8,SNR=3.9		Iamb	15 29 01.9	
MAKZ	Makanchi	25.85 322	P	15 28 59.2	-3.6
MAKZ	comp=Z,3.5nm,1.4s		Iamb	15 29 20.4	
GIRL	Giralia	51.49 169	P	15 32 35.7	-1.1
WB0	Warramunga Arr	55.75 146	P	15 33 06.5	-0.5
WRA	Warramunga Arr	55.70 146	P	15 33 08.2	+0.3
JOW	comp=Z,0.6nm,0.8s,baz=337,slow=8.3,SNR=9.3		Iamb	15 33 08.2	
WR8	Warramunga Arr	55.79 146	P	15 33 07.8	-0.7
WR8	comp=Z,6.8nm,1.2s		Iamb	15 33 26.8	
COEN	Coen	55.88 134	P	15 33 08.3	-0.9
ASAR	Alice Springs	58.69 149	P	15 33 29.9	+0.9
JOW	comp=Z,0.4nm,0.6s,baz=327,slow=6.9,SNR=13		Iamb	15 33 29.9	
M20K	Styx River	70.58 29	P	15 34 45.8	-0.5
ILSW	Iliamna Southw	71.36 31	P	15 34 49.1	-1.9
ILSW	comp=Z,6.5nm,1.1s		Iamb	15 35 00.7	
BMAR	Burnt Mountain	71.39 22	P	15 34 49.5	-1.6

Code	Station Name	Δ° AZZ'	Phase ID	Time Res	ISC
WMQ	Urumqi	20.64 323	eP Pn	15 13 46.9	+2.4
JOW	Kunigami	20.83 89	P	15 13 44.2	-0.1
JOW	comp=Z,2.8nm,0.6s,baz=196,slow=13,SNR=7.7		Iamb	15 13 43.4	-0.9
KSAR	Wonju Array Be	21.31 59	P	15 13 48.7	-0.6
KSRS	Korea Array	21.34 59	P	15 13 48.5	-1.2
JOW	comp=Z,2.4nm,0.7s,baz=245,slow=10.0,SNR=11		Iamb	15 13 48.5	
MKAR	Makanchi Array	25.47 322	P	15 14 30.9	+0.3
MKAR	Makanchi Array	25.47 322	P	15 14 31.3	+0.7
JOW	comp=Z,3.3nm,0.8s,baz=116,slow=12,SNR=7.9		Iamb	15 14 31.3	
MAKZ	Makanchi	25.65 322	P	15 14 33.2	+1.1
MYLDM	Lahad Datu	26.48 148	P	15 14 41.5	+1.5
MYLDM	comp=Z,1.3nm,1.1s		Iamb	15 15 12.2	
USRK	Shenyiysk, Ala	26.81 47	P	15 14 41.8	-0.8
ARSB	Arslanbob	28.97 305	P	15 15 02.9	+0.6
ARSB	comp=Z,7.0nm,0.6s		Iamb	15 15 27.0	
AB31	Akbulak array	39.97 314	P	15 16 37.0	+0.1
AB31	Akbulak array	39.97 314	P	15 16 36.9	-0.1
MTN	Mannton Dam	48.25 145	P	15 17 42.3	-1.3
MTN	comp=Z,1.3nm,1.2s		Iamb	15 18 07.1	
KNRA	Kununurra	49.56 149	P	15 17 52.5	-1.1
KNRA	comp=Z,7.0nm,1.1s		Iamb	15 18 12.9	
RAYN	Ar Rayn	53.11 279	P	15 18 20.4	0.0
RAYN	comp=Z,4.6nm,0.8s		Iamb	15 18 21.2	
SHEM	Shenyiysk, Ala	55.58 44	P	15 18 38.0	+0.2
JOW	comp=Z,1.8nm,0.3s,baz=236,slow=6.5,SNR=7.0		Iamb	15 18 38.0	
WB0	Warramunga Arr	55.76 146	P	15 19 38.1	-1.4
WB0	comp=Z,1.2nm,1.4s		Iamb	15 19 21.1	
WRA	Warramunga Arr	55.88 146	P	15 19 39.2	-1.1
JOW	comp=Z,2.7nm,0.9s,baz=317,slow=12,SNR=34		Iamb	15 19 39.2	
WR8	Warramunga Arr	55.97 146	P	15 19 39.6	-1.4
WR8	comp=Z,2.7nm,0.9s		Iamb	15 19 41.7	
COEN	Coen	56.12 133	P	15 18 41.2	-0.9
BRTR	Breskian Array B	58.66 301	P	15 19 00.9	+0.9
JOW	comp=Z,1.0nm,0.8s,baz=91,slow=5.1,SNR=5.0		Iamb	15 19 00.9	
AS31	Alice Springs	58.85 149	P	15 19 00.6	-0.8
ASAR	Alice Springs	58.86 149	P	15 19 00.6	-0.8
JOW	comp=Z,0.9nm,0.5s,baz=331,slow=7.0,SNR=18		Iamb	15 19 00.6	
AKASG	Malin Array Be	59.71 314	P	15 19 05.8	-1.2
JOW	comp=Z,0.7nm,0.6s,baz=68,slow=8.8,SNR=3.2		Iamb	15 19 05.8	
AKKB	Malin Array Si	59.71 314	P	15 19 05.8	-1.2
AKKB	comp=Z,7.1nm,1.4s		Iamb	15 19 26.2	
KIEV	Kiev	59.72 314	P	15 19 05.9	-1.1
KIEV	comp=Z,5.7nm,1.4s		Iamb	15 19 12.5	
ARCES	ARCCESS Array B	59.98 336	P	15 19 09.0	+0.5
JOW	comp=Z,4.4nm,0.9s,baz=84,slow=8.3,SNR=2.2		Iamb	15 19 09.0	
C16K	Lisburne Hills	63.89 24	P	15 19 34.6	-0.2
C18K	Utukok Ridge	65.30 24	P	15 19 43.8	-0.5
C19K	Lookout Ridge	65.74 23	P	15 19 46.7	-0.3
C19K	comp=Z,1.0nm,0.8s		Iamb	15 20 18.1	
D20K	Etiivuk River	66.89 23	P	15 19 54.1	-0.1
D20K	comp=Z,3.7nm,0.8s		Iamb	15 19 55.7	
K17K					

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like TIY, CM31, CMAR, GOMU, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like SUJ, SNY, SRY, SRT, etc.

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like MDJ, PRZ, MAKZ, KPKS, etc.



Table with columns for station ID, name, frequency, and other details. Includes stations like OZUR, BURAR, BUCOVINA ARRAY, etc.

Table with columns for station ID, name, frequency, and other details. Includes stations like NORSAR, MORAVSKY BEROU, etc.

Table with columns for station ID, name, frequency, and other details. Includes stations like BLY, L18K, BRG, etc.



MANZ	Manzenberg	70.48 317 eP	P	15 47 17.4 +0.2
ROTZ	Rotzenmühle	70.50 317 eP	P	15 47 17.5 +0.2
H23K	Yukon River	70.51 25 P	P	15 47 18.1 +1.0
JNW	Jan Mayen West	70.53 341 eP	P	15 47 18.4 +1.3
MOX	Moxa	70.54 318 eP	P	15 47 17.4 -0.2
CAST	Castle Rocks	70.55 28 I Amb	I Amb	15 47 19.5
CAST	Castle Rocks	70.55 28 P	P	15 47 18.6 +1.2
ASSE	Asse, Remlinge	70.55 319 eP	P	15 47 17.2 -0.2
JMIC	Jan Mayen	70.57 341 eP	P	15 47 18.7 +1.3
N19K	Bonanza Creek	70.57 31 P	I Amb	15 47 20.0
N19K	Bonanza Creek	70.57 31 P	P	15 47 18.7 +1.0
O18K	Koktuh Hills	70.62 32 P	P	15 47 19.2 +1.3
BPAW	Bear Paw Mtn.	70.70 27 I Amb	I Amb	15 47 20.6
BPAW	Bear Paw Mtn.	70.70 27 P	P	15 47 18.9 +0.5
C27K	Jago	70.70 20 P	P	15 47 18.7 +0.5
PPLA	Purkeypile	70.72 28 P	P	15 47 19.5 +0.9
M20K	Styx River	70.74 29 I Amb	I Amb	15 47 21.1
M20K	Styx River	70.74 29 P	P	15 47 19.7 +1.0
NRDL	Niedersack Rie	70.74 320 eP	P	15 47 19.2 +0.6
P18K	Big Mountain	70.80 32 P	P	15 47 20.2 +1.2
MATE	Matera	70.81 306 eP	P	15 47 18.9 -0.4
E25K	Arctic Village	70.85 22 I Amb	I Amb	15 47 20.9
E25K	Arctic Village	70.85 22 P	P	15 47 20.0 +0.8
G24K	Hadweenzic Riv	70.86 24 I Amb	I Amb	15 47 21.1
G24K	Hadweenzic Riv	70.86 24 P	P	15 47 20.4 +1.1
RJOB	Jochberg	70.87 314 eP	P	15 47 19.3 -0.4
I23K	Minto, Yukon-K	70.88 25 I Amb	I Amb	15 47 21.1
I23K	Minto, Yukon-K	70.88 25 P	P	15 47 20.4 +1.1
KIBK	Kibwezi	70.89 256 I Amb	I Amb	15 47 21.2
O19K	Port Alsworth	70.89 31 P	P	15 47 20.4 +0.9
Q17K	Conatc Creek	70.92 34 P	P	15 47 20.2 +0.3
KMBO	Kilima Mbogo	70.95 258 P	P	15 47 19.4 -1.5
KMBO	Kilima Mbogo	70.95 258 P	I Amb	15 47 19.4 -1.5
KMBO	Kilima Mbogo	70.95 258 I P	P	15 47 20.9 0.0
KTH	Kantisha Hill	70.96 27 I Amb	I Amb	15 47 22.7
LESA	Schwarzleotal	71.06 314 I P	P	15 47 21.1 +0.3
RETH	Rether/Alter	71.07 320 eP	P	15 47 20.9 +0.2
F25K	Christian Rive	71.08 22 I Amb	I Amb	15 47 22.8
F25K	Christian Rive	71.08 22 P	P	15 47 21.4 +0.8
H24K	Noodor Dome	71.12 25 I Amb	I Amb	15 47 22.8
H24K	Noodor Dome	71.12 25 P	P	15 47 21.7 +0.8
GR4K	Grafenberg Arr	71.12 317 I Amb	I Amb	15 47 23.2
GRF	Grafenberg Arr	71.12 317 eP	P	15 47 21.4 +0.3
GRFO	Grafenberg	71.12 317 P	P	15 47 20.8 -0.3
GRFO	Grafenberg	71.12 317 P	I Amb	15 47 23.1
GRFO	Grafenberg	71.12 317 P	Pmax	15 47 20.8 -0.3
GRFO	Grafenberg	71.12 317 P	Pmax	15 47 20.8 -0.3
CMSA	Cobar Meteorol	71.17 144 P	P	15 47 23.6 +2.1
GTG	Gottlingen	71.17 319 eP	P	15 47 21.4 0.0
Q18K	Katmai Hardscr	71.20 33 P	P	15 47 21.2 -0.3
NEA2	Nenana	71.23 26 P	P	15 47 21.9 +0.3
TRF	Thorofore Mount	71.26 27 P	P	15 47 22.1 +0.2
ACER	Acerenza	71.30 307 I Amb	I Amb	15 47 23.5
G25K	Bearman Lake	71.32 23 P	P	15 47 22.9 +0.9
SKT	Skwentna	71.39 29 I Amb	I Amb	15 47 24.4
SKT	Skwentna	71.39 29 P	P	15 47 23.2 -0.2
ABTA	Abfalterbach	71.41 314 I P	P	15 47 22.4 -0.7
N20K	Mount Spurr	71.42 30 P	P	15 47 23.1 +0.2
SPCR	Spurr Chakacha	71.42 30 P	P	15 47 23.4 +0.5
UBBA	Unterbreizbach	71.43 318 eP	P	15 47 22.7 0.0
STAL	STALGIAL	71.46 313 I Amb	I Amb	15 47 23.6
DBG	Daneborg	71.48 346 I P	P	15 47 21.8 -1.0
DBG	Daneborg	71.48 346 I Amb	I Amb	15 47 23.7
RED	Redoubt Volcan	71.51 31 I Amb	I Amb	15 47 24.7
BMAR	Burnt Mountain	71.51 22 P	P	15 47 23.2 0.0
ILSW	Ilamna South	71.52 31 I Amb	I Amb	15 47 26.1
F26K	Sheenjelier	71.53 22 P	P	15 47 23.8 +0.6
COLA	College	71.57 25 P	P	15 47 22.9 -0.6
COLA	College	71.57 25 P	P	15 47 24.9 +1.4
COLA	College	71.57 25 d/P	Pmax	15 47 23.6 +0.1
COLA	College	71.57 25 P	Pmax	15 47 23.8 +0.3
POKR	Poker Plat Res	71.62 25 P	P	15 47 24.5 +0.7
P19K	Oi Pt	71.62 32 P	P	15 47 23.1 -0.9
H25L	Birch Creek	71.66 24 P	P	15 47 24.4 +0.4
FUR	Furstentfeldbru	71.66 315 eP	P	15 47 24.6 +0.2
MCK	McKinley	71.68 27 P	P	15 47 24.6 +0.3
O20K	Slope Mountain	71.72 31 P	P	15 47 24.0 -0.5
Q19K	Cape Douglas	71.73 32 P	P	15 47 24.3 -0.3
D27M	Malcolm River	71.73 20 I Amb	I Amb	15 47 26.3
D27M	Malcolm River	71.73 20 P	P	15 47 25.2 +0.7
CUT	Chullina	71.73 28 P	P	15 47 23.9 -0.6
WATA	Wattenberg	71.77 314 eP	P	15 47 25.3 0.0
WATA	Walderaim	71.78 314 I P	P	15 47 24.8 -0.5
RND	Reindeer	71.86 27 I Amb	I Amb	15 47 27.0
R18K	Karluk	71.91 34 P	P	15 47 24.7 -0.9
SUA	Susitna One	71.95 29 P	P	15 47 26.0 0.0
IL31		71.98 25 I Amb	I Amb	15 47 26.5

ILAR	Eielson Array	71.98 25 P	P	15 47 24.4 -1.6
ILAR	Eielson Array	71.98 25 P	P	15 47 25.6 -0.5
ILAR	comp-Z, 5.4nm, 0.8s, baz=279, slow=5.6, SNR=43		LR	16 21 29.8
G26K	Porcupine Rive	72.02 23 I Amb	I Amb	15 47 28.3
G26K	Porcupine Rive	72.02 23 P	P	15 47 26.6 +0.4
CHIR	Chirikof Islan	72.04 36 P	P	15 47 25.8 -0.7
SQTA	Sankt Quirin	72.06 314 I P	P	15 47 26.8 -0.2
MOTA	Moosalm	72.08 315 I P	P	15 47 26.8 -0.3
M22K	Willow	72.09 29 P	P	15 47 27.0 +0.3
E27K	Coleen River	72.10 21 P	P	15 47 27.6 +0.9
PRP	Porcupine Dome	72.13 24 P	P	15 47 27.1 +0.1
HDA	baz=299, SNR=51	72.13 26 P	P	15 47 26.3 -0.6
IBBN	Ibbenduren	72.14 320 eP	P	15 47 27.2 0.0
KASTN	Kahler Asten	72.20 319 eP	P	15 47 27.5 -0.1
RETA	Reutte	72.24 315 I P	P	15 47 27.9 -0.1
WAT1	Susitna Watana	72.25 28 P	P	15 47 27.2 -0.5
INTR	Introdacuga	72.26 309 I Amb	I Amb	15 47 36.1
CEL	Celeste	72.28 304 I Amb	I Amb	15 47 29.4
D28M	Stokes Point	72.35 19 P	P	15 47 28.1 0.0
FDMO	Fiordomote	72.43 310 I Amb	I Amb	15 47 30.7
FETA	Feldberg	72.44 314 I P	P	15 47 29.2 0.0
Q20K	Shuyak Island	72.45 32 P	P	15 47 28.7 -0.2
SII	Sitkinak Islan	72.46 35 P	P	15 47 29.0 -0.1
AQU	L'Aquila	72.48 309 P	P	15 47 31.0 +1.5
E28M	Babbage River	72.51 20 I Amb	I Amb	15 47 30.9
E28M	Babbage River	72.51 20 P	P	15 47 30.2 +1.1
RC01	Rabbit Creek A	72.55 29 P	P	15 47 28.9 -0.5
UBR	Ueberurrh	72.57 315 eP	P	15 47 29.3 -0.6
TNS	Tanus Mts	72.57 318 eP	P	15 47 29.7 -0.2
PMR	Palmer	72.58 29 P	P	15 47 29.5 -0.1
DHY	Denali Highway	72.61 27 P	P	15 47 29.2 -0.7
OHAK	Old Harbor	72.62 34 I Amb	I Amb	15 47 31.4
OHAK	Old Harbor	72.62 34 P	P	15 47 32.3 +2.4
OHAK	Old Harbor	72.62 34 P	P	15 47 29.1 -0.8
J25K	Salcha River	72.63 25 P	P	15 47 29.3 -0.7
BRLK	Bradley Lake	72.64 31 I Amb	I Amb	15 47 30.6
WAT6	Susitna Watana	72.69 28 P	P	15 47 30.3 -0.2
STU	Stuttgart	72.70 316 P	P	15 47 31.9 +1.3
STU	Stuttgart	72.70 316 eP	P	15 47 31.1 +0.5
STU	Stuttgart	72.70 316 eP	P	15 47 31.1 +0.5
OPO	Ambohiraompo	72.72 237 LR	LR	16 16 21.2
BRSE	Bradley Lake S	72.72 31 P	P	15 47 30.3 -0.2
KDAK	Kodiak Island	72.72 33 LR	LR	16 22 51.9
KDAK	Kodiak Island	72.72 33 LR	LR	15 47 31.0 +0.5
KDAK	Kodiak Island	72.72 33 Pmax	Pmax	15 47 30.3 -0.2
KDAK	Kodiak Island	72.72 33 P	P	15 47 31.3 +0.4
BUG	Bochum-Univer	72.77 319 eP	P	15 47 31.3 +0.4
G27K	Doyon Strip	72.81 22 I Amb	I Amb	15 47 32.8
G27K	Doyon Strip	72.81 22 P	P	15 47 31.5 +0.5
SML	Sawmill	72.82 28 P	P	15 47 31.1 0.0
O22K	Cover Landing	72.83 30 P	P	15 47 30.3 -0.8
K24K	Donnelly Dome	72.88 26 P	P	15 47 31.1 -0.4
KNK	Knik Glacier	72.95 29 I Amb	I Amb	15 47 33.3
KNK	Knik Glacier	72.95 29 P	P	15 47 31.8 -0.1
F28M	Old Crow	72.96 21 P	P	15 47 32.1 +0.3
ABPO	Ambohpanom	72.97 237 P	P	15 47 31.7 -1.0
ABPO	Ambohpanom	72.97 237 P	Pmax	15 47 31.7 -1.0
M23K	Glacier View	73.08 28 P	P	15 47 32.7 +0.1
I26K	Coal Creek Min	73.09 24 I Amb	I Amb	15 47 33.9
I26K	Coal Creek Min	73.09 24 P	P	15 47 32.6 0.0
SEW	Seward	73.13 30 P	P	15 47 32.6 -0.3
E29M	Blow River	73.13 20 I Amb	I Amb	15 47 34.6
E29M	Blow River	73.13 20 P	P	15 47 33.2 +0.4
H27K	Steamboat Moun	73.17 23 I Amb	I Amb	15 47 35.2
H27K	Steamboat Moun	73.17 23 P	P	15 47 33.9 +0.8
SCM	Sheep Creek Mo	73.22 28 I Amb	I Amb	15 47 35.1
SCM	Sheep Creek Mo	73.22 28 P	P	15 47 33.9 +0.3
PWL	Port Wells	73.26 29 I Amb	I Amb	15 47 35.0
PWL	Port Wells	73.26 29 P	P	15 47 33.9 +0.2
RIDG	Independent Ri	73.27 26 I Amb	I Amb	15 47 34.3
RIDG	Independent Ri	73.27 26 P	P	15 47 33.1 -0.7
ZCCA	Zocca	73.33 312 I Amb	I Amb	15 47 46.7
J26L	Joseph Creek	73.36 25 I Amb	I Amb	15 47 35.2
J26L	Joseph Creek	73.36 25 P	P	15 47 33.6 -0.7
NEEM	North Greenlan	73.39 355 I P	I Amb	15 47 35.3 +0.8
NEEM	North Greenlan	73.39 355 I P	I Amb	15 47 36.7
BFO	Black Forest	73.41 316 P	P	15 47 34.0 -0.8
BFO	Black Forest	73.41 316 P	I Amb	15 47 36.0
BFO	Black Forest	73.41 316 P	Pmax	15 47 34.0 -0.8
BFO	Black Forest	73.41 316 eP	Pmax	15 47 34.3 -0.5
PAX	Paxson	73.42 27 P	P	15 47 34.5 -0.2
SCRK	Sand Creek	73.48 25 P	P	15 47 35.3 +0.2
I27K	Kandik River	73.48 23 P	P	15 47 35.7 +0.8
TUE	Stuetta	73.53 314 I Amb	I Amb	15 47 40.4
ARPS	Mount Arapiles	73.56 150 P	P	15 47 36.3 +0.7
M24K	Tolsona, Glenn	73.56 28 P	P	15 47 36.6 +1.1
BTNL	Ternell	73.78 319 P	P	15 47 36.9 -0.1

GLI	Glacier Island	73.78 29 P	P	15 47 36.1 -0.7
HARP	HAARP	73.83 27 P	P	15 47 37.1 +0.1
MEM	Membach	73.83 319 dP	P	15 47 37.7 +0.5
G29M	Pine Creek	73.95 21 I Amb	I Amb	15 47 39.1
G29M	Pine Creek	73.95 21 P	P	15 47 37.8 +0.1
KLU	Klutina	73.97 28 I Amb	I Amb	15 47 39.8
KLU	Klutina	73.97 28 P	P	15 47 38.3 +0.3
P23K	Montague Islan	74.08 30 P	P	15 47 37.2 -1.3
A36M	Sachs Harbour	74.10 14 P	P	15 47 39.2 +0.8
BSTI	Sart Tilman	74.10 319 dP	P	15 47 39.0 +0.2
FID	Port Fidalgo	74.11 29 I Amb	I Amb	15 47 40.2
I28M	Miner Creek	74.15 23 I Amb	I Amb	15 47 40.6



Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like EOS2, JKR5, KURO-shima, etc.

IDC 17 16:29:06.1:0.5,28.34N,104.83E,h0km,mb4.4/23, mbmp4.4/24,ML4.2/1,MS4.0/3,Error ellipse: s-maj=20.5km s-min=11.4km az=48.0

NEIC 17 16:29:08.7:1.5,28.49N,107.07E,104.92E,0.08,h10km,1km, mb4.7/94,Error ellipse: s-maj=12.0km s-min=11.6km az=117.0

ISC 17 16:29:09.3:0.3,28.39N,104.03E,104.92E,0.04,h19km,n377, r171/361,mb4.6/70,MS4.0/5,3C-1D,Sichuan

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like GYA, CD2, PanZhiHua, etc.

Main table with columns: Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like TNCH, SLVN, WHN, etc.

Table with columns: Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like CN2, KULM, KKM, etc.

17d 16h

H16K	Elim	65.92	28	P	P	16 39 52.2	-1.5
A21K	Barrow	66.05	20	P	P	16 39 53.1	-1.3
B20K	Meade River	66.28	22	P	P	16 39 56.3	+0.4
B20K	Meade River	66.28	22	P	P	16 39 55.0	-0.9
G17K	Kiwalik Mouna	66.33	27	P	P	16 39 55.4	+0.9
F18K	Selawik	66.40	26	P	P	16 39 55.7	-1.0
D19K	Kuna River	66.41	24	P	P	16 39 56.3	-0.5
HFS	Hagfors	66.42	327	P	P	16 39 56.6	-0.4
M13K	Dall Lake	66.58	33	P	P	16 39 57.0	-1.0
L14K	Kuka Creek	66.63	32	P	P	16 39 57.3	-1.0
A22K	Sinclair Lake	66.66	21	P	P	16 39 57.4	-0.8
H17K	Unalakleet	66.78	29	P	P	16 39 57.8	-1.4
H17K	Granite Mouna	66.79	27	P	P	16 39 59.0	-0.3
UNV	Unalakas Valle	66.80	40	P	P	16 39 58.4	-1.1
YVHS	Yhane	66.85	314	eP	P	16 40 01.0	+1.0
D20K	Etiyuk River	66.86	23	P	P	16 39 59.3	-0.4
K15K	Wolf Creek Mou	66.88	30	P	P	16 39 59.5	-0.4
J16K	Anvik River	67.00	29	P	P	16 40 00.0	-0.6
G18K	Tagagawik	67.00	26	P	P	16 40 00.2	-0.4
F19K	Shalercuk Mo	67.04	25	P	P	16 40 00.1	-0.8
E19K	Redstone River	67.05	25	P	P	16 40 00.2	-0.7
L15K	Ungalak Mouna	67.08	31	P	P	16 40 00.5	-0.7
M14K	Bethel	67.14	32	P	P	16 40 01.0	-0.6
E20K	Nigu River	67.16	24	P	P	16 40 01.0	-0.7
B21K	Ikpikpuk River	67.24	22	P	P	16 40 01.4	-0.6
NB2	NORSAR Subarra	67.33	328	P	P	16 40 02.6	-0.2
NOA	NORSAR Array B	67.33	328	P	P	16 40 02.6	-0.2
C21K	Knifeblade Rid	67.34	22	P	P	16 40 02.3	-0.5
H18K	Honhosa River	67.35	27	P	P	16 40 01.7	-1.2
B22K	Teshkepuk Lake	67.37	21	P	P	16 40 01.9	-1.0
N14K	Kuskokwak Cree	67.52	33	P	P	16 40 03.2	-0.8
G19K	Purcell Mouna	67.53	26	P	P	16 40 03.4	-0.6
J17K	VABM Dome	67.61	29	P	P	16 40 03.6	-0.9
F20K	Avarart Lake	67.73	25	IAMB	IAMB	16 40 11.6	
F20K	Avarart Lake	67.73	25	P	P	16 40 04.9	-0.3
M15K	Kasigliuk River	67.75	32	P	P	16 40 04.7	-0.7
E21K	Kilik River	67.87	23	P	P	16 40 05.5	-0.6
O14K	Tiguyakuiv M	67.94	34	P	P	16 40 06.0	-0.6
H19K	Roundabout Mou	67.98	26	P	P	16 40 06.0	-0.8
L16K	Owhat River	67.99	31	P	P	16 40 05.7	-1.2
GCSA	Galena City Sc	68.08	27	P	P	16 40 05.8	-1.6
D22K	Aiyikyak River	68.15	22	P	P	16 40 07.0	-0.8
K17K	Iditarod	68.17	30	P	P	16 40 07.9	-0.2
N15K	Kwethluk River	68.20	32	P	P	16 40 08.0	-0.3
FALS	False Pass	68.22	38	P	P	16 40 08.2	-0.3
L17K	Donlin	68.37	30	P	P	16 40 08.7	-0.6
M16K	Timber Creek	68.45	31	P	P	16 40 09.4	-0.4
C23K	Kilik River	68.45	21	P	P	16 40 09.2	-0.4
F21K	Alatna River	68.49	24	P	P	16 40 09.2	-0.9
J18K	Innoko River	68.59	29	IAMB	IAMB	16 40 12.4	
J18K	Innoko River	68.59	29	P	P	16 40 09.8	-0.9
H20K	Antoleneega Mo	68.61	26	P	P	16 40 10.2	-0.5
O15K	Ungalikthiuk R	68.66	33	P	P	16 40 10.8	-0.4
N16K	Nishlik Lake	68.72	32	P	P	16 40 11.6	0.0
E22K	Anaktuvuk Pass	68.73	23	P	P	16 40 11.2	-0.3
G21K	Allakaket	68.75	25	P	P	16 40 11.6	0.0
D23K	Nanusshuk River	68.78	22	P	P	16 40 12.4	+0.7
F22K	John River	68.85	24	P	P	16 40 12.1	-0.2
J19K	Poorman	68.86	28	IAMB	IAMB	16 40 14.4	
J19K	Poorman	68.86	28	P	P	16 40 13.0	+0.6
M17K	Hollitna River	69.01	31	P	P	16 40 13.9	+0.6
L18K	Granite Mouna	69.05	30	P	P	16 40 13.2	-0.3
C24K	Franklin Bluff	69.11	21	P	P	16 40 13.2	-0.5
TOLK	Toolik Lake Re	69.28	22	P	P	16 40 13.9	-1.0
D24K	Happy Valley	69.31	22	P	P	16 40 14.7	-0.3
G22K	Bettles	69.32	24	P	P	16 40 14.4	-0.7
H21K	Melozitna Rive	69.34	26	P	P	16 40 14.2	-1.1
O16K	Kokwok River B	69.35	33	P	P	16 40 14.3	-1.1
STKA	Stephens Creek	69.35	147	P	P	16 40 15.0	-0.7
J20K	Nowitna River	69.39	27	P	P	16 40 14.9	-0.7
N17K	Nushagak Hills	69.44	32	P	P	16 40 15.1	-0.9
E23K	Chandalar	69.51	23	IAMB	IAMB	16 40 19.3	
E23K	Chandalar	69.51	23	P	P	16 40 15.3	-1.2
CLL	Collin	69.53	318	eP	P	16 40 16.0	-0.7
P16K	Nushagak River	69.50	33	P	P	16 40 16.4	-0.6
SDPT	Sand Point	69.64	37	P	P	16 40 16.5	-0.8
COLD	Coldfoot	69.66	24	P	P	16 40 16.8	-0.5
M18K	Stony River	69.70	30	P	P	16 40 17.2	-0.4
K20K	Telida	69.74	28	P	P	16 40 16.9	-0.9
O17K	Koliganek Bris	69.76	32	P	P	16 40 16.7	-1.2
H22K	Ishaititna Cre	69.79	25	P	P	16 40 16.9	-1.2
S14K	Fog Glacier	69.80	36	P	P	16 40 17.1	-1.3
L19K	White Mountain	69.86	29	P	P	16 40 17.5	-1.1
E24K	Your Creek	69.89	23	IAMB	IAMB	16 40 20.1	

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E24K	Your Creek	69.89	23	P	P	16 40 17.7	-1.0
G23K	Bananza Creek	69.94	24	IAMB	IAMB	16 40 22.0	
G23K	Bananza Creek	69.94	24	P	P	16 40 17.9	-1.1
GERES	GERESS Array B	69.96	315	P	P	16 40 19.1	-0.4
N18K	Kilae Creek	69.97	31	P	P	16 40 18.1	-1.2
D25K	Kavik River	70.02	21	P	P	16 40 18.1	-1.3
L20K	Farewell, AK	70.16	29	P	P	16 40 19.0	-1.5
M19K	Big River Lodg	70.17	30	P	P	16 40 19.1	-1.3
C26K	Camden Bay	70.19	20	P	P	16 40 18.8	-1.6
CHNA	Chernabura Isl	70.31	38	P	P	16 40 20.1	-1.3
F24K	Squaw Lake	70.34	23	P	P	16 40 20.4	-1.1
MLY	Manley	70.39	26	IAMB	IAMB	16 40 23.8	
MLY	Manley	70.39	26	P	P	16 40 20.7	-1.2
H23K	Yukon River	70.50	25	IAMB	IAMB	16 40 27.1	
H23K	Yukon River	70.50	25	P	P	16 40 21.2	-1.2
CASST	Castle Rocks	70.53	28	P	P	16 40 21.3	-1.4
N19K	Bonanza Creek	70.56	31	P	P	16 40 21.9	-0.7
O18K	Koklu Hills	70.61	32	P	P	16 40 22.1	-1.1
BPWW	Bear Paw Mtn.	70.69	27	IAMB	IAMB	16 40 26.0	
BPWW	Bear Paw Mtn.	70.69	27	P	P	16 40 22.6	-1.0
C27K	Jago River	70.70	20	P	P	16 40 22.6	-0.9
PPLA	Purkeypile	70.71	28	P	P	16 40 23.1	-0.8
M20K	Styx River	70.73	29	P	P	16 40 23.0	-1.0
P18K	Big Mountain,	70.78	32	P	P	16 40 22.9	-1.4
E25K	Arc Village	70.84	22	P	P	16 40 23.4	-1.1
G24K	Hadweznic Riv	70.86	24	IAMB	IAMB	16 40 39.8	
G24K	Hadweznic Riv	70.86	24	P	P	16 40 23.7	-0.9
I23K	Minto, Yukon-K	70.87	26	IAMB	IAMB	16 40 26.2	
I23K	Minto, Yukon-K	70.87	26	P	P	16 40 24.3	-0.4
O17K	Contact Creek	70.91	34	P	P	16 40 24.4	-0.8
KMBO	Kilima Mbogo	71.00	258	P	IAMB	16 40 26.2	-0.4
F25K	Christian River	71.07	22	P	P	16 40 25.4	-0.6
H24K	Noodor Dome	71.11	25	P	P	16 40 25.4	-0.8
Q18K	Katmai Hardscr	71.18	33	P	P	16 40 25.9	-0.9
NEA2	Nenana	71.23	26	IAMB	IAMB	16 40 28.6	
NEA2	Nenana	71.23	26	P	P	16 40 26.2	-0.6
TRF	Thorofare Moun	71.25	27	P	P	16 40 26.2	-1.1
G25K	Shenik Lake	71.31	23	P	P	16 40 26.5	-0.8
SKT	Skwentna	71.37	29	P	P	16 40 27.1	-0.7
BMAR	Big Mountain	71.51	22	P	P	16 40 29.9	+1.3
F26K	Sheniek River	71.52	22	P	P	16 40 27.6	-1.0
COLA	College	71.56	25	P	P	16 40 27.3	-1.5
P19K	Oil Pt	71.60	32	P	P	16 40 28.2	-1.0
POKR	Poker Plat Res	71.61	25	IAMB	IAMB	16 40 31.1	
POKR	Poker Plat Res	71.61	25	P	P	16 40 28.2	-1.0
MCK	McKinley	71.67	27	P	P	16 40 28.4	-1.1
O20K	Slope Mountain	71.70	31	P	P	16 40 29.0	-0.9
D27M	Malcolm River	71.73	20	P	P	16 40 29.4	-0.5
R18K	Karluk	71.89	34	P	P	16 40 29.7	-1.2
SUA	Susitna One	71.93	29	P	P	16 40 30.6	-0.7
ILAR	Eielson Array	71.98	25	P	P	16 40 31.2	-0.2
G26K	Porcupine Rive	72.02	23	P	P	16 40 31.1	-0.5
E27K	Coleen River	72.09	21	P	P	16 40 31.2	-0.9
PRP	Porcupine Dome	72.12	24	IAMB	IAMB	16 40 34.2	
PRP	Porcupine Dome	72.12	24	P	P	16 40 31.0	-1.4
HDA	Harding Lake	72.13	26	P	P	16 40 30.9	-1.3
RC01	Rabbit Creek A	72.54	29	P	P	16 40 34.2	-0.5
PMY	Palmer	72.57	29	P	P	16 40 34.4	-0.5
DHR	Denali Highway	72.59	27	P	P	16 40 33.5	-1.8
OHAK	Old Harbor	72.73	34	P	P	16 40 34.0	-1.2
J25K	Salcha River,	72.62	25	P	P	16 40 33.9	-1.4
WAT6	Susitna Watana	72.68	28	P	P	16 40 34.4	-1.4
BRSE	Bradley Lake S	72.70	31	P	P	16 40 34.7	-1.1
SML	Sawmill	72.81	28	P	P	16 40 36.0	-0.4
G27K	Doyon Strip	72.81	22	IAMB	IAMB	16 40 38.3	
G27K	Doyon Strip	72.81	22	P	P	16 40 36.4	0.0
O22K	Cooper Landing	72.82	30	P	P	16 40 35.8	-0.6
K24K	Donnelly Dome	72.87	26	P	P	16 40 35.9	-0.8
KNK	Knik Glacier	72.94	29	P	P	16 40 36.7	-0.5
F28M	Old Crow	72.95	21	P	P	16 40 36.6	-0.5
M23K	Glacier View	73.06	28	P	P	16 40 37.2	-0.7
I26K	Coal Creek Min	73.08	24	IAMB	IAMB	16 40 42.2	
I26K	Coal Creek Min	73.08	24	P	P	16 40 37.2	-0.7
SEW	Seaward	73.12	30	P	P	16 40 38.0	-0.2
E29M	Blow River	73.13	20	IAMB	IAMB	16 40 40.0	
E29M	Blow River	73.13	20	P	P	16 40 37.7	-0.5
H27K	Steamboat Moun	73.16	23	IAMB	IAMB	16 40 40.7	
H27K	Steamboat Moun	73.16	23	P	P	16 40 38.0	-0.5
SCM	Sheep Creek Mo	73.21	28	P	P	16 40 38.2	-0.6
PRD	Port Wells	73.25	29	P	P	16 40 38.2	-0.8
RWL	Independent Ri	73.26	26	P	P	16 40 38.8	-0.3
J26L	Joseph Creek	73.25	25	P	P	16 40 38.9	-0.8
PAX	Paxson	73.41	27	P	P	16 40 39.5	-0.6

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SCRK	Sand Creek	73.47	25	P	P	16 40 39.5	-0.9
I27K	Kandik River	73.47	23	P	P	16 40 39.4	-0.9
M24K	Tolsona, Glenn	73.55	28	P	P	16 40 39.9	-1.0
TUE	Stuetta	73.58	314	IAMB	IAMB	16 40 41.7	+0.2
GLI	Glacier Island	73.77	29	P	P	16 40	

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like U33K Whale Pass, WRAK Wrangeli Islan, TOAD Toad River Com, etc.

IDC 17 16:36:46.5:1.9,31.09Sx177.64W,h0km,mb3.8/4, mbtmp3.8/5,ML3.5/1,Error ellipse: s-maj=43.5km s-min=37.1km az=66.0

NEIC 17 16:36:47.0:7.0,30.86S:0.07:177.7W,0.2,h10km,2km, mb4.4/8,Error ellipse: s-maj=25.4km s-min=9.8km az=76.0

ISC 17 16:36:49.2:0.9,31.01N:0.09:177.7W,0.1,h27km,n18, c1552/19,mb4.2/8,Kermadec Islands region

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like RAO Raoul Island, URZ Urewera, RTZ Ruatathuna, etc.

IDC 17 16:37:53.6:0.5,28.35N:104.88E,h0km,mb4.5/25, mbtmp4.5/26,ML4.1/1,MS3.8/5,Error ellipse: s-maj=17.7km s-min=10.9km az=44.0

MOS 17 16:37:53.8:0.8,28.39N:104.95E,h1km,mb4.8/37,Error ellipse: s-maj=7.9km s-min=5.2km az=111.9

BGR 17 16:37:54.7:27.59N:105.18E,h33km,mb4.7

BUI 17 16:37:56.2:28.41N:104.95E,h8km,mb4.7/11,mb4.4/44, ML4.6/23,MS4.3/50,MS7.4.1/52

NEIC 17 16:37:56.1:1.7,28.45N:0.08:104.96E,0.08,h10km,1km, mb4.9/167,Error ellipse: s-maj=13.1km s-min=11.9km az=156.0

ISC 17 16:37:55.5:1.2,28.46N:0.03:105.00E,0.04,h8km,7km, n855,c1807/515,mb4.8/160,MS4.0/8,25C-27D,Sichuan

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like GYA Guiyang, CD2 Chengdu, PZH PanZhiHua, etc.

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like CNSH comp=N,350nm,0.9s, SLVN LZH Lanzhou, WHN Wuhan, etc.

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like SNY Shenyang, INCN Incheon, TJN Taejon, etc.

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YAK	17d 16h	Yakutsk	37.32 19	I	Amb	I	Amb	16 45 08.0	+0.1	16 45 09.5
YAK	comp=Z,19nm,0.8s	Yakutsk	37.32 19	eP	pmax	P	pmax	16 45 07.6	-0.3	
YAK	comp=Z,19nm,0.9s									
YAK	comp=E,8.0nm,1.5s									
YAK	comp=N,6.0nm,1.1s									
AB31	Akbulak array	40.04 314		P	P	P	P	16 45 31.0	+0.1	
AB31	Akbulak array	40.04 314	iP					16 45 31.2	+0.3	
ABKAR	Akbulak array	40.04 314		P	P	P	P	16 45 30.8	0.0	
SVE	Sverdlovsk	42.10 325	eP					16 45 48.6	+0.9	
ARTI	Arti	43.09 324d	iP					16 45 55.5	-0.3	
ARTI				S	S	S	S	16 52 25.5	+3.4	
ARTI										
TIXI	comp=Z,7.0nm,1.0s	Tiksi	45.20 10	P	P	P	P	16 46 11.9	-0.6	
TIXI								16 46 13.2		
TIXI	comp=Z,17nm,1.1s	Tiksi	45.20 10f	eP	pmax	P	pmax	16 46 12.3	-0.2	
TIXI										
AKT	comp=Z,17nm,1.0s	Akhty	47.90 302	eP	e	P	pmax	16 46 32.2	-2.1	
AKT								16 48 01.3		
AKT										
BELG	Belogornoye	48.28 316d	eP	pmax	P	pmax	pmax	16 46 37.1	+0.2	
BELG										
KIRV	Kirov	48.36 325c	iP					16 46 37.3	-0.1	
KNRA	Kunurra	49.53 149		I	Amb	I	Amb	16 46 46.0	-0.8	
KNRA								16 46 47.5		
GNI	Garni	50.27 300j	eP					16 46 53.4	+0.9	
GNI										
FITZ	comp=Z,11nm,1.5s	Fitzroy Crossi	50.40 154	P	P	P	P	16 46 52.5	-0.9	
KBZ	Khabaz	51.31 305	P	P	P	P	P	16 46 58.2	-1.9	
KBZ	comp=Z,2.1nm,0.8s,baz=105,slow=12,SNR=4.8	Khabaz	51.31 305j	eP	pmax	P	pmax	16 47 00.1	0.0	
KBZ										
KIV	comp=Z,4.0nm,0.9s	Kislovodsk	51.44 305	P	P	P	P	16 47 01.4	+0.2	
KIV								16 47 01.3	+0.1	
KIV										
SHA1	Shidzhatmaz	51.48 305c	iP					16 47 02.0	+0.3	
BILL	Bilibino	53.24 24	P	P	P	P	P	16 47 14.0	-0.1	
BILL								16 47 14.5	+0.4	
RAYN	comp=Z,9.0nm,1.0s	Ar Rayn	53.25 279	P	I	Amb	I	16 47 13.4	-1.5	
RAYN								16 47 16.0		
RAYN	comp=Z,13nm,0.7s	Ar Rayn	53.25 279	P	pmax	P	pmax	16 47 13.4	-1.5	
RAYN										
KLMR	Klimovskoe	53.69 326	eP					16 47 15.8	-1.6	
KLMR								16 48 21.9		
OBN	Obninsk	54.98 319	iP	P	pmax	P	pmax	16 47 27.6	+0.7	
OBN										
PMG	comp=Z,7.0nm,0.8s	Port Moresby	55.45 126	P	P	P	P	16 47 30.3	-0.6	
PMG								16 47 30.3	-0.6	
PMG										
WB0	Warramunga Arr	55.73 146	I	Amb	I	Amb	I	16 47 33.0		
WRAB	Tennant Creek	55.84 146	P	P	P	P	P	16 47 32.1	-1.4	
WRAB	Tennant Creek	55.84 146c	eP	pmax	P	pmax	pmax	16 47 33.0	-0.6	
WRAB										
WRA	comp=Z,25nm,0.9s	Warramunga Arr	55.85 146	P	P	P	P	16 47 32.5	-1.1	
WRA								16 47 33.1	-0.5	
WRA	comp=Z,14nm,0.8s,baz=334,slow=7.7,SNR=66	Warramunga Arr	55.85 146	P	P	P	P	16 48 32.2	-0.3	
WRA										
WRA	comp=Z,3.1nm,0.9s,baz=331,slow=3.9,SNR=7.2	Warramunga Arr	55.85 146	iP	pmax	P	pmax	16 47 33.0	-0.6	
WRA										
WRB	comp=Z,15nm,0.8s	Warramunga Arr	55.94 146	I	Amb	I	Amb	16 47 34.6		
WRB										
BR131	Keskin Array S	58.75 301c	eP					16 47 54.0	-0.2	
BRTR	Keskin Array B	58.75 301	P	P	P	P	P	16 47 53.2	-1.0	
BRTR	Keskin Array B	58.75 301	P	P	P	P	P	16 47 53.6	-0.6	
BRTR	comp=Z,2.4nm,0.9s,baz=106,slow=5.8,SNR=12	Keskin Array B	58.75 301	iP	pmax	P	pmax	16 47 54.0	-0.2	
BRTR										
ASAR	comp=Z,2.0nm,0.7s,baz=331,slow=4.0,SNR=5.5	Alice Springs	58.83 149	P	P	P	P	16 47 54.3	-0.3	
ASAR								16 47 54.5	-0.1	
ASAR	comp=Z,6.8nm,0.8s,baz=331,slow=6.6,SNR=7.1	Alice Springs	58.83 149	P	P	P	P	16 48 44.0	-0.1	
ASAR										
MMAI	comp=Z,6.8nm,0.8s,baz=331,slow=4.0,SNR=5.5	Mount Meron Ar	59.01 293	P	P	P	P	16 47 55.7	-0.3	
MMAI										
AKASG	comp=Z,2.8nm,0.8s,baz=28,slow=5.7,SNR=4.0	Malin Array B	59.78 314	P	P	P	P	16 48 00.5	-0.4	
AKASG										
AKASG	comp=Z,2.0nm,0.6s,baz=75,slow=6.2,SNR=13	Malin Array B	59.78 314	iP	pmax	P	pmax	16 48 00.5	-0.4	
AKASG										
AKKB	Malin Array Si	59.78 314c	eP					16 48 00.0	-0.9	
KIEV	Kiev	59.79 314	uP					16 48 00.1	-0.9	
KIEV	Kiev	59.79 314	uP					16 48 00.5	-0.4	
KIEV	Kiev	59.79 314	uP					16 48 02.2	+0.2	
ARCES	ARCES Array B	59.99 336	P	P	P	P	P	16 48 02.2	+0.2	
VSU	comp=Z,8.0nm,1.0s,baz=71,slow=9.1,SNR=6.2	Vasula	60.17 324d	eP	pmax	P	pmax	16 48 02.6	-0.9	
VSU										
FINES	comp=Z,4.8nm,0.8s,baz=108,slow=10,SNR=12	FINESS Array B	60.20 327	P	P	P	P	16 48 03.4	-0.2	
FINES										
NACGM	comp=Z,15nm,0.9s,baz=82	Naroch	60.61 320	eP				16 48 05.5	-1.0	
TPGR	Toplog	61.41 308	uP					16 48 13.1	+0.9	
HARR	Harsova	61.79 308	uP					16 48 15.0	+0.3	
HARR	Harsova	61.79 308	uP					16 48 15.0	+0.3	
GAMB	Gambell	61.94 30	P	P	P	P	P	16 48 14.9	-0.5	
VRI	Vrincioia	62.35 309	uP					16 48 19.3	+0.8	
VRI	Vrincioia	62.35 309	uP					16 48 19.3	+0.8	
PJOR	Plostina	62.40 309	uP					16 48 20.5	+1.6	
PJOR	Plostina	62.40 309	uP					16 48 20.5	+1.6	
CTAO	Charters Tower	62.59 136	P	I	Amb	I	Amb	16 48 20.1	-0.2	
CTAO								16 48 21.5		
CTAO	comp=Z,12nm,1.0s	Charters Tower	62.59 136	P	pmax	P	pmax	16 48 20.1	-0.2	
CTAO										
BURAR	Bucovina Array	62.95 312	uP					16 48 23.0	+0.4	
BURAR	Bucovina Array	62.95 312	uP					16 48 23.0	+0.4	
BUR08	Bucovina Ar. S	62.96 312	I	Amb	I	Amb	I	16 48 24.0		
MLR	Muntele Rosu	62.97 309	I	Amb	I	Amb	I	16 48 30.3		
MLR	Muntele Rosu	62.97 309	uP					16 48 24.0	+1.2	
MLR	Muntele Rosu	62.97 309	uP					16 48 24.0	+1.2	
DOPR	Dopca	63.23 310	uP					16 48 26.2	+1.8	
TNA	Tin City	63.27 28	P	P	P	P	P	16 48 23.4	-0.8	
C16K	Lisburne Hills	63.77 25	P	P	P	P	P	16 48 26.4	-1.1	
SPIA	Saint Paul Isl	63.80 37	P	P	P	P	P	16 48 27.4	-0.5	
F14K	Arctic Creek	63.94 28	P	P	P	P	P	16 48 27.8	-0.4	
P08K	Saint George I	64.30 38	P	P	P	P	P	16 48 30.9	-0.9	
C17K	DeLong Mountai	64.52 24	P	P	P	P	P	16 48 31.5	-0.9	
ANM	Nome	64.53 29	P	P	P	P	P	16 48 31.8	-0.8	
KOLS	Kolonickie sedl	64.54 314	eP					16 48 33.2	+0.2	
KOLS	Kolonickie sedl	64.54 314	eP					16 48 33.2	+0.2	
F15K	North Star Dit	64.57 27	P	P	P	P	P	16 48 31.9	-0.9	
D17K	Noatak River	64.73 25	P	P	P	P	P	16 48 33.3	-0.5	
B18K	Kokolik River	64.80 23	P	P	P	P	P	16 48 33.5	-0.8	
A19K	Wainwright	64.84 22	P	P	P	P	P	16 48 32.6	-1.9	
G15K	Niukluk	64.98 28	P	P	P	P	P	16 48 34.4	-1.1	
M11K	Mekoryuk	65.13 33	P	P	P	P	P	16 48 35.6	-0.9	
C18K	Utukok River	65.18 24	P	P	P	P	P	16 48 36.4	-0.4	
E17K	Hotham Inlet	65.35 25	P	P	P	P	P	16 48 37.4	-0.4	
K13K	Kusivak Mount	65.47 31	P	P	P	P	P	16 48 38.3	-0.4	
SURR	Surduc	65.49 310	uP					16 48 39.5	+0.3	
HERR	Herculane	65.54 309	uP					16 48 40.0	+0.6	
G16K	Koyuk River	65.58 27	P	P	P	P	P	16 48 38.7	-0.7	
NIKH	Nikolski High	65.58 42	P	P	P	P	P	16 48 38.6	-1.0	
C19K	Lookout Ridge	65.62 23	I	Amb	I	Amb	I	16 48 41.6		
C19K	comp=Z,16nm,1.1s	Lookout Ridge	65.62 23	P	P	P	P	16 48 39.2	-0.5	
NIE	Niedzica	65.67 314	eP					16 48 41.1	+0.8	
E18K	Tukpahleir C	65.72 25	P	P	P	P	P	16 48 39.6	-0.7	
F17K	Baldwin Pennin C</									



Table with columns: I26K, E29M, E29M, H27K, H27K, SCM, PWL, RIDG, RIDG, J26L, J26L, PAX, NEEM, SCRR, I27K, BFO, M24K, TUE, GLI, HARL, G29M, KLU, KLU, A36M, I28M, K27K, H29M, H29M, F30M, F30M, WLF, WLF, WLF, WLF, WLF, N25K, N25K, G30M, G30M, INK, INK, EYAK, BGES, M26K, M26K, EPYK, I29M, L27K, BMRM, BCAR, Q23K, GLB, F31M, DAWY, DAWY, G31M, M27K, M27K, MCAR, KAIM, I30M, BVCY, H31M, H31M, J30M, K29M, K29M, YUK3, CTG, L29M, L29M, SUMG, SUMG, SUMG, SUMG, YUK3, YUK3, O28M, YUKA, PINM

Table with columns: I26K, E29M, E29M, H27K, H27K, SCM, PWL, RIDG, RIDG, J26L, J26L, PAX, NEEM, SCRR, I27K, BFO, M24K, TUE, GLI, HARL, G29M, KLU, KLU, A36M, I28M, K27K, H29M, H29M, F30M, F30M, WLF, WLF, WLF, WLF, WLF, N25K, N25K, G30M, G30M, INK, INK, EYAK, BGES, M26K, M26K, EPYK, I29M, L27K, BMRM, BCAR, Q23K, GLB, F31M, DAWY, DAWY, G31M, M27K, M27K, MCAR, KAIM, I30M, BVCY, H31M, H31M, J30M, K29M, K29M, YUK3, CTG, L29M, L29M, SUMG, SUMG, SUMG, SUMG, YUK3, YUK3, O28M, YUKA, PINM

Table with columns: YUK6, N30M, O29M, PNL, HYT, HYT, DZM, N31M, N31M, M31M, O30N, P29M, P30M, FARO, WHY, MMPY, PLBC, POIN, N32M, SKAG, SKAG, SKAG, ICESG, P33M, R31K, P32M, S31K, TGTN, SIT, Q32M, R33M, DLBC, U33K, WRAK, BEAVL, T35M, SFJD, TOAD, YKA, YKA, YKA, ESDC, LSZ, LSZ, BOS, TXAR, QSPA, SNA, ROSE, LPAZ

IDC 17 16:39:08.6i:0.28'43N:104'96E,h0km,mb4.1/11, mbtmp4.0/12,ML3.7/1,MS4.4/1, Error ellipse: s-maj=47.4km s-min=17.5km az=56.0 NEIC 17 16:39.11.4i:1.9.28'39N:105'05E:0'08,h10km,1km, mb4.6/23, Error ellipse: s-maj=14.9km s-min=3.6km az=235.0

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res, h, m, s, ISC





17d 16h

2019 JUN

Table with columns for station code, name, frequency, power, and other technical details. Includes stations like PFO Pinyon Flats O, GSI Gunungsitoli, and many others.

Table with columns for station code, name, frequency, power, and other technical details. Includes stations like TIA comp=Z,56nm,1.2s, KDAK Kodiak Island, and many others.

Table with columns for station code, name, frequency, power, and other technical details. Includes stations like BGU Big Grassy Mou, MFID Camas Ranch, and many others.

SKT	comp=Z,2um,19.0s	94.98	12	IAMS_20	IAMS_20	17 49 19.3
M22K	Willow	95.03	13	IAMS_20	IAMS_20	17 51 59.6
KNK	Knik Glacier	95.04	14	IAMS_20	IAMS_20	17 52 15.0
WRAK	Wrangell Island	95.11	23	IAMS_20	IAMS_20	17 47 48.4
J17K	VABM Dome	95.19	8	IAMS_20	IAMS_20	17 50 31.8
AHID	Auburn Hatcher	95.33	43	IAMB	IAMB	17 06 42.1
AHID	comp=Z,57nm,1.4s					
DIV	Divide	95.35	15	IAMS_20	IAMS_20	17 48 57.2
MESA	MESA	95.41	17	IAMS_20	IAMS_20	17 46 12.9
WAX	Waxell Ridge	95.42	16	IAMS_20	IAMS_20	17 51 08.2
SML	Sawmill	95.42	13	IAMS_20	IAMS_20	17 49 18.1
BMRM	Bremner River	95.47	15	IAMS_20	IAMS_20	17 47 08.4
O20A	White River Ci	95.47	46	IAMS_20	IAMS_20	17 53 24.8
I17K	Unalakleet	95.48	7	IAMS_20	IAMS_20	17 50 35.3
U35K	Hyder	95.53	25	IAMS_20	IAMS_20	17 45 39.5
MSTX	Muleshoe	95.53	54	IAMS_20	IAMS_20	17 45 31.3
NEW	Newport	95.57	36	LR	LR	17 46 27.1
CUT	Chulitna	95.60	12	IAMS_20	IAMS_20	17 47 27.8
YAH	Yahtse	95.62	17	IAMS_20	IAMS_20	17 46 20.4
CRQM	Cirque	95.62	16	IAMS_20	IAMS_20	17 46 40.7
KLK	Klutina	95.64	15	IAMS_20	IAMS_20	17 48 57.9
ISLE	Juniper Island	95.68	17	IAMS_20	IAMS_20	17 46 32.1
TGL	Tana Glacier	95.70	16	IAMS_20	IAMS_20	17 46 42.4
ANM	Nome	95.70	5	IAMS_20	IAMS_20	17 47 29.2
PPLA	Purkey	95.72	11	IAMS_20	IAMS_20	17 53 22.8
PCA	Pinnacle	95.77	18	IAMS_20	IAMS_20	17 46 02.6
BCPM	Bancroft Point	95.81	18	IAMS_20	IAMS_20	17 46 02.7
SDCO	Great Sand Dun	95.82	49	IAMS_20	IAMS_20	17 47 13.5
FXWY	Fox Creek	95.91	42	IAMB	IAMB	17 06 45.0
FXWY	comp=Z,39nm,1.6s					
GRNC	Granite Creek	95.94	17	IAMS_20	IAMS_20	17 46 29.9
VRDI	Verde Repeater	95.96	16	IAMS_20	IAMS_20	17 47 13.5
PZH	PanZhiHua	95.99	297	P	P	17 06 30.4 +0.6
N25K	Chitina, Valde	96.03	15	IAMS_20	IAMS_20	17 52 00.3
GLB	Gilahina Butte	96.07	16	IAMS_20	IAMS_20	17 47 27.2
DLMT	Dillon	96.09	40	IAMB	IAMB	17 06 45.6
DLMT	comp=Z,41nm,1.4s					
M24K	Tolsona, Glenn	96.14	14	IAMS_20	IAMS_20	17 49 26.0
T25A	Trinidad	96.19	50	IAMB	IAMB	17 06 46.6
MCARA	McCarthy VSAT	96.20	16	IAMS_20	IAMS_20	17 47 19.8
LAGN	Logan Glacier	96.20	17	IAMS_20	IAMS_20	17 46 39.0
COST	Castle Rocks	96.22	11	IAMS_20	IAMS_20	17 50 40.2
BW06	Boulder Array	96.24	43	IAMS_20	IAMS_20	17 45 47.9
PDAR	Pinedale Array	96.24	43	P	P	17 06 30.6 -0.1
PDAR	comp=Z,2.6nm,1.0s,baz=204,slow=3.3,SNR=1.1					
CTGM	Chitina Glacie	96.24	17	IAMS_20	IAMS_20	17 46 49.9
BARN	Barnard Glacier	96.25	17	IAMS_20	IAMS_20	17 46 50.0
T35M	Bob Quinn	96.27	24	IAMS_20	IAMS_20	17 46 31.2
735A	Kenedy	96.35	60	IAMS_20	IAMS_20	17 48 09.6
O28M	Mount Upton	96.37	17	IAMS_20	IAMS_20	17 44 40.3
KTH	Kantishna Hill	96.55	12	IAMS_20	IAMS_20	17 53 30.7
TRF	Thorfare Moun	96.56	12	IAMB	IAMB	17 06 46.8
TRF	comp=Z,62nm,2.0s					
YHL	Yelton Lake	96.56	41	IAMB	IAMB	17 06 49.3
H17K	Granite Mounta	96.58	7	IAMS_20	IAMS_20	17 51 28.6
J20K	Noynta River	96.61	10	IAMS_20	IAMS_20	17 50 52.3
SE5	Seymchan	96.65	347	LR	LR	17 46 29.0
SEY	comp=Z,2um,2.0s,baz=153,slow=3.3					
SEY	Seymchan	96.65	347	P	P	17 06 31.4 -0.3
DHY	Denali Highway	96.77	13	IAMS_20	IAMS_20	17 53 08.6
G16K	Koyuk River	96.78	6	IAMS_20	IAMS_20	17 50 00.7
RND	Reindeer	96.78	13	IAMS_20	IAMS_20	17 53 03.0
AMTX	Amarillo	96.79	53	IAMS_20	IAMS_20	17 46 37.5
CD2	Chengdu	96.79	302	P	P	17 06 34.8 +1.5
CD2	comp=Z,1um,18.7s					
CD2	comp=Z,880nm,17.4s					
F15K	North Star Dit	96.89	5	IAMS_20	IAMS_20	17 49 57.5
ISCO	Idaho Springs	96.92	48	IAMS_20	IAMS_20	17 50 46.4
H18K	Honhosa River	96.97	8	IAMS_20	IAMS_20	17 51 37.8
HHC	Hu-ho-hao-te	96.97	314	eP	P	17 06 34.8 +0.9
HHC	comp=Z,9.0nm,0.6s					
HHC	comp=Z,190nm,7.0s					
HHC	comp=Z,520nm,18.5s					
HHC	comp=Z,610nm,20.2s					
ZE	Zeya	96.98	331	eP	P	17 06 33.3 -0.2
BPWA	Bear Paw Mtn.	97.04	11	IAMS_20	IAMS_20	17 50 55.8
MCK	McKinley	97.06	12	IAMS_20	IAMS_20	17 53 31.5
M27K	Nabesna, AK	97.10	15	IAMS_20	IAMS_20	17 48 03.3
M26K	Edge Creek, AK	97.32	16	IAMS_20	IAMS_20	17 48 07.3
YNE	Yellowstone No	97.32	41	IAMB	IAMB	17 06 51.5
JTS	Las Juntas de	97.35	82	LR	LR	17 41 16.5
BWN	Browne	97.37	12	IAMS_20	IAMS_20	17 48 44.4
LPAZ	La Paz	97.48	114	P	P	17 06 37.4 -0.1

LPAZ	comp=Z,34nm,2.0s			IAMB	IAMB	17 06 55.4
LPAZ	La Paz	97.48	114	P	Pdfr	17 06 38.1 +0.6
LPAZ	comp=Z,1.1nm,0.8s,baz=224,slow=6.5,SNR=4.8					
L26K	Log Cabin Ulv	97.56	15	IAMS_20	IAMS_20	17 48 39.8
G18K	Tagagawik	97.65	8	IAMS_20	IAMS_20	17 52 00.8
TNCH	TengChong	97.72	294	P	P	17 06 37.4 -0.4
TNCH	comp=Z,11nm,1.8s					
TNCH	comp=Z,170nm,4.9s					
TNCH	comp=Z,330nm,13.9s					
TNCH	comp=Z,620nm,16.2s					
TNCH	comp=Z,980nm,17.6s					
K24K	Donnelly Dug	97.74	14	IAMS_20	IAMS_20	17 48 31.3
RLMT	Red Lodge	97.81	42	IAMS_20	IAMS_20	17 50 46.4
BOAB	BOAB	97.82	80	IAMS_20	IAMS_20	17 41 40.0
NEA2	Nenana	97.83	12	IAMS_20	IAMS_20	17 50 46.6
RIDG	Independent Ri	97.87	14	IAMS_20	IAMS_20	17 50 32.9
WRH	Wood River Hill	97.89	12	IAMB	IAMB	17 06 59.2
WRH	comp=Z,3.5um,19.0s					
L27K	Beaver Creek	97.94	16	IAMS_20	IAMS_20	17 48 37.7
MLY	Manley	97.94	11	IAMS_20	IAMS_20	17 51 32.6
DOT	Dot Lake	97.96	14	IAMS_20	IAMS_20	17 53 24.1
M29M	Somme Creek	98.23	17	IAMS_20	IAMS_20	17 48 04.4
SCRK	Sand Creek	98.26	14	IAMS_20	IAMS_20	17 53 25.2
COLA	College	98.30	12	IAMS_20	IAMS_20	17 49 01.2
COLA	comp=Z,4.0nm,1.0s					
HKT	Hockley	98.39	60	IAMS_20	IAMS_20	17 44 58.7
ILAR	Eielson Array	98.39	13	P	P	17 06 38.9 -0.7
ILAR	Eielson Array	98.39	13	P	P	17 06 39.4 -0.2
ILAR	comp=Z,1.4nm,1.0s,baz=230,slow=4.1,SNR=8.2					
ILAR	comp=Z,700nm,19.0s,baz=196,slow=3.3					
KSCO	Kaye Shedlock	98.40	49	IAMS_20	IAMS_20	17 48 09.8
J25K	Salcha River	98.54	13	IAMS_20	IAMS_20	17 54 14.6
POKR	Poker Plat Res	98.60	12	IAMS_20	IAMS_20	17 49 00.1
F19K	Shalercik Mo	98.66	8	IAMS_20	IAMS_20	17 52 51.4
K27K	Chickadee	98.72	15	IAMS_20	IAMS_20	17 50 46.4
WMOK	Wichita Mounta	98.73	55	IAMS_20	IAMS_20	17 50 16.0
L29M	L29M	98.87	17	IAMS_20	IAMS_20	17 48 15.4
H23K	Yukon River	98.88	11	IAMS_20	IAMS_20	17 52 02.3
E18K	Tukpalearik C	98.92	7	IAMS_20	IAMS_20	17 51 08.4
H24K	Noodor Dome	99.17	12	IAMS_20	IAMS_20	17 54 50.2
CPUP	Villa Florida	99.26	128	LR	LR	17 45 41.2
E19K	Redstone River	99.32	8	IAMS_20	IAMS_20	17 53 12.9
RDOG	Red Dog Mine	99.33	5	IAMS_20	IAMS_20	17 49 44.2
C16K	Lisburne Hill	99.37	5	IAMS_20	IAMS_20	17 51 28.1
BILL	Bilibino	99.47	354	IAMS_20	IAMS_20	17 46 21.9
BILL	Bilibino	99.47	354	eP	Pdfr	17 06 43.1 -1.2
F21K	Alatina River	99.57	9	IAMS_20	IAMS_20	17 53 05.6
I26K	Coal Creek Min	99.60	14	IAMS_20	IAMS_20	17 54 47.7
G23K	Bananza Creek	99.61	11	IAMS_20	IAMS_20	17 52 36.7
K29M	Barlow Dome	99.63	17	IAMS_20	IAMS_20	17 48 48.6
OK038	West end E0370	99.66	53	IAMS_20	IAMS_20	17 48 12.5
J29N	Klondike Camp	99.97	16	IAMS_20	IAMS_20	17 49 30.5
G24K	Hawdenczic Riv	100.03	12	IAMS_20	IAMS_20	17 55 44.7
C18K	Utukok River	100.06	6	IAMS_20	IAMS_20	17 50 28.5
OK029	Liberty Lake	100.20	54	IAMS_20	IAMS_20	17 48 51.0
D19K	Kuna River	100.22	7	IAMS_20	IAMS_20	17 52 17.7
I28M	Illiner Creek	100.42	15	IAMS_20	IAMS_20	17 49 58.2
LAO	LASA Array	100.45	42	IAMS_20	IAMS_20	17 52 37.2
J30M	Hart River	100.53	17	IAMS_20	IAMS_20	17 54 30.4
D20K	Etiuvik River	100.59	8	IAMS_20	IAMS_20	17 54 14.5
C19K	Lookout Ridge	100.66	6	IAMS_20	IAMS_20	17 52 28.2
R32A	Long Quarter	100.69	52	IAMS_20	IAMS_20	17 50 02.5
F24K	Squaw Lake	100.70	11	IAMS_20	IAMS_20	17 56 10.4
I29M	Ogilvik Camp	100.71	16	IAMS_20	IAMS_20	17 54 29.0
H27K	Steamboat Moun	100.74	14	IAMS_20	IAMS_20	17 55 14.8
OK05	Battle Ridge R	100.76	55	IAMS_20	IAMS_20	17 48 58.7
441A	DeRidder	100.77	61	IAMS_20	IAMS_20	17 48 42.6
E23K	Chandalar	100.91	10	IAMS_20	IAMS_20	17 51 53.1
G26K	Porcupine Rive	100.92	13	IAMS_20	IAMS_20	17 53 19.4
I30M	Mount Dempster	101.06	16	IAMS_20	IAMS_20	17 49 46.1
E24K	Yukon Creek	101.10	11	IAMS_20	IAMS_20	17 53 34.2
F25K	Christian Rive	101.15	12	IAMS_20	IAMS_20	17 56 50.4
G27K	Doyon Strip	101.22	14	IAMS_20	IAMS_20	17 50 31.3
D22K	Aiyikyak River	101.23	9	IAMS_20	IAMS_20	17 52 24.5
TOLK	Toolik Lake Re	101.45	10	IAMS_20	IAMS_20	17 53 59.4
F26K	Sheenjek River	101.51	12	IAMS_20	IAMS_20	17 54 14.9
E25K	Arctic Village	101.63	12	IAMS_20	IAMS_20	17 56 56.1
B21K	Ikpikpuk River	101.69	8	IAMS_20	IAMS_20	17 54 51.5
B20K	Meade River	101.77	7	IAMS_20	IAMS_20	17 52 50.6
YAK	Yakutsk	101.96	337	IAMS_20	IAMS_20	17 56 46.1
H31M	Peel River	102.03	17	IAMS_20	IAMS_20	17 50 24.8

D24K	Happy Valley	102.03	10	IAMS_20	IAMS_20	17 52 30.7
G29M	Pine Creek	102.07	15	IAMS_20	IAMS_20	17 50 60.0
F28M	Old Cato	102.27	14	IAMS_20	IAMS_20	17 51 32.1
MIAR	Mount Ida	102.33	57	IAMS_20	IAMS_20	17 46 22.7
KSU1	Kansas State U	102.45	52	IAMS_20	IAMS_20	17 53 32.1
B22K	Teshkepuk Lake	102.51	8	IAMS_20	IAMS_20	17 53 22.2
D25K	Kavik River	102.57	11	IAMS_20	IAMS_20	17 52 22.9
C24K	Franklin Bluff	102.57	10	IAMS_20	IAMS_20	17 54 54.8
BGNE	Belgrade	102.57	49	IAMS_20	IAMS_20	17 53 35.2
U38A	Gravette	102.68	55	IAMS_20	IAMS_20	17 53 13.6
G31M	Satah River	102.94	16	IAMS_20	IAMS_20	17 55 37.0
143A	Soos Landing	103.04	60	IAMS_20	IAMS_20	17 47 43.7
F30M	Barrier River	103.15	15	IAMS_20	IAMS_20	17 56 24.3
E28M	Babbage River	103.18	13	IAMS_20	IAMS_20	17 52 20.0
C27K	Jago River	103.28	12	IAMS_20	IAMS_20	17 50





Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Moldovita, Manzenberg, Rotzenmühle, Kasperske Hory, Cesky Krumlov, Grafenberg Arr, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Barranco-do-Ve, Barrancos, Vaqueiros, Sonseca Array, Kesra, etc.

Station coordinates and parameters: IDC 17 16:57:54.94, 5.32°81'S; 179°75'E, h230km, 35km, mb3.6/5, mblmp4.2/6, Error ellipse: s-maj=42.7km s-min=18.5km az=51.0

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Green Lake, Matakaoa Point, Waioomatatini S, Great Barrier, Te Kaha, Pakihiroa, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Raukumara Rang, Tauwhareparae, Waipuu Caves, Carnagh Station, Matawai, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Te Karaka, Urewera, Omahuta, Rawiri, Kahuroa, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Ruatahuna, Hissack Road, Paritu Road, Shannon Station, Handcock Road, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Galatos Road, Kokohu, Allen Road, Whakapapatarin, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Mataia Rd, Naumai, Wairara, Arapoanui, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Black Stump Fm, McNeill Hill, Te Maari, Kawakea Forest, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like East Tongariro, Cape Kidnapper, Taurewa, Tukino, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Kurchatov Arra, Warramunga Arr, ASAR, etc.

Station coordinates and parameters: IDC 17 17:04:08.1±2.0, 30.765°177.36'W, h0km, mb3.7/3, mblmp3.7/3, Error ellipse: s-maj=57.3km s-min=42.1km az=39.0, Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Green Lake, Raoul Island, Matakaoa Point, Waioomatatini S, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Pakihiroa, Te Kaha, Puketiti, Raukumara Rang, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Tauwhareparae, Carnagh Station, Te Karaka, Matawai, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Shannon Station, Handcock Road, Galatos Road, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Mataia Rd, Naumai, Wairara, Arapoanui, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Black Stump Fm, McNeill Hill, Te Maari, Kawakea Forest, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like East Tongariro, Cape Kidnapper, Taurewa, Tukino, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Kurchatov Arra, Warramunga Arr, ASAR, etc.



Table with columns: AAK, Ala-Archa, 17.58 328 P, P, 18 02 18.8 0.0, comp=Z,1.0nm,0.3s,baz=149,slow=5.4,SNR=26

Table with columns: DRGR, DRGR, 52.84 309 P, P, 18 07 27.9 +1.6, comp=Z,2.1nm,1.3s

IDC 17 18:06:13.0,2.3,30,40Sx178.49W,h0km,mb3.7/3, mbtomp3.7/3, Error ellipse: s-maj=65.2km s-min=41.9km

Table with columns: Code, Station Name, A Z, Phase ID, Time, Res, URZ, Urewera, 8.64 204 Pn, P, 18 08 11.7 -7.6

Table with columns: NMDO, NMDO, 0.91 305 eP, Pn, 18 08 05.9 -0.5, comp=N,33nm,0.2s

IDC 17 18:21:58.0,1.4,21.97Sx169.10E,h0km,mb3.9/4, mbtomp3.9/5,ML3.5/1, Error ellipse: s-maj=43.5km s-min=26.3km az=12.0

Table with columns: Code, Station Name, A Z, Phase ID, Time, Res, DZM, Mont Dzumac, 2.48 264 Op, ISC, 18 22 40.4 -0.1

TEH 17 18:24:01.8,38.85N:44.56E,h8km,126km AFAD 17 18:24:02.4,38.93N:44.58E,h7km,3km,ML2.3

ISK 17 18:24:02.4,38.97N:44.49E,h5km,ML2.5 AZER 17 18:24:03.3,38.92N:44.60E,h8km,ml2.6

ISK 17 18:24:02.8,1.1,38.93N:0.02,44.58E:0.02,h6km,10km, n36,r158/56,Turkey-Iran border region

Table with columns: Code, Station Name, A Z, Phase ID, Time, Res, MAKU, Maku, 0.43 11 Pg, P, 18 24 12.0 -1.1



Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like PB05 IPOC Station P, PB05 IPOC Station P, PB05 IAML, etc.

IDC 17 19:20:05.0:0.7,30.895:177.29W,h0km,m4.3/8, mbtmp4.3/9,ML3.4/1,MS3.8/4, Error ellipse: s-maj=25.2km s-min=24.1km az=53.0

NEIC 17 19:20:08.4:1.2,30.9S:0.1:177.5W:0.2, h10km,1km, mb4.6/13, Error ellipse: s-maj=29.6km s-min=17.3km az=76.0

ISC 17 19:20:09.8:0.6,31.12S:0.0:177.5W:0.1, h27km,m56, 1941/50,mb4.6/17,MS3.7/3,5D,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like RAO Raoul Island, URZ Urewera, URZ Tophouse, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like WRA comp=Z,1.2nm,0.4s,baz=113,slow=3.0,SNR=52, WBO Warrungunga Arr, SBA Scott Base, etc.

RSNC 17 19:28:06.5:0.0,7°N:1°7'3W, h123km,1km,M3.0,ML2.7 IDC 17 19:28:07.5:7.7,6.66N:73.17W,h164km,54km, mbtmp3.2/1, Error ellipse: s-maj=232.8km s-min=94.6km az=126.0

ISC 17 19:28:03.9:1.0,6.92N:0.0:73.28W:0.04, h134km,6km, n38,-156/70,Northern Colombia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like VMO09 Lebrija, VMO09 Barichara, VMO10 EI Carmen, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like PCRV Puerto La Cruz, ASAR Alice Springs, WRA Warrungunga Arr, etc.

IDC 17 19:41:57.2:3.8,2.59S:-101.06E,h0km,m3k2.5/5, mbtmp3.2/5, Error ellipse: s-maj=147.0km s-min=23.6km az=59.0, Southern Sumatara

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like CMAR Chiang Mai Arr, H0S2 Diego Garcia H, H0S3 Diego Garcia H, etc.

BGR 17 20:03:07.0:9.95S:25.55W,h33km,m4.7,MS4.7 MOS 17 20:03:07.7:1.3,0.85N:26.08W,h10km,mb5.0/39, MS4.7/14, Error ellipse: s-maj=11.4km s-min=6.3km az=53.6

IDC 17 20:03:07.5:0.4,0.74N:26.14W,h0km,mb4.3/29, mbtmp4.3/30,ML5.2/1,MS4.8/74, Error ellipse: s-maj=12.8km s-min=6.8km az=131.0

NEIC 17 20:03:09.7:2.1,0.79N:0.09:26.08W:0.09, h10km,1km, mb5.0/182, Mw5.5/22, Mw5.5/4.46, Error ellipse: s-maj=15.8km s-min=15.2km az=137.0, Moment Tensor Solution. Moment tensor: Scale 1017Nm; Mr:0.4; Mw:0.0; Ms:0.46; M:0.10; Mw:0.25; Mr:0.36; Fault plane solution: M2.14000x10^17 NP1:86.920000, 180.150000, 1.179.940000. NP2:176.930000, 889.940000, 1.850000. Principal axes: T 1.8567, Plg7.0000; Azm42.0000; N 0.4773, Plg80.0000, Azm177.0000; P -2.3340, Plg7.0000; Azm311.0000

NEIC 17 20:03:10.9,0.80N:26.13W,h10km NEIC 17 20:03:11.0,0.78N:26.14W,h12km NEIC 17 20:03:11.0,68N:26.04W,h12km, Moment Tensor Solution. Duration: 288 Moment tensor: Scale 1017Nm; Mr:0.18; Ms:0.65; M:0.47; Mw:1.05; Mw:1.45; Mw:0.32; Fault plane solution: M1.72000x10^17 NP1: 171.260000, 872.620000, 1.9.880000. NP2:78.280000, 180.570000, 1.62.380000. Principal axes: T 1.8937, Plg7.0000; Azm34.0000; N -0.4217, Plg70.0000; Azm231.0000; P -1.4721, Plg5.0000; Azm126.0000

INMG 17 20:03:12.0:0.9,0.56N:26.20W,h10km,mb4.8,MS4.7, MW5.0,#DIST\_RANGE: DISTANT

GCMT 17 20:03:12.7:0.1,0.77N:0.0:26.03W:0.01, h13km, Mw5.5/157, Moment Tensor Solution. s119,c212; 1.657,c314; Duration: 155 Moment tensor: Scale 1017 Nm; Mr:0.34; Ms:0.52; Mw:0.18; Mw:0.18; Mw:0.56; Mr:0.25; Mr:0.23; Mr:0.23; Best double couple: M2.66400x10^17 NP1:86.920000, 180.150000, 1.179.940000. NP2:176.930000, 889.940000, 1.850000. Principal axes: T 2.8740, Plg10.0000; Azm41.0000; N -0.4190, Plg78.0000; Azm250.0000; P -2.4550, Plg6.0000; Azm132.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s.

ISC 17 20:03:10.1:0.3,0.67N:0.05:26.13W:0.05, h14km, n449, 2501/32,mb4.9/183,MS4.8/98,10C-15D,Central Mid-Atlantic Ridge

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like GCMT Babate, NBVP Pedro Velho, RCBR Riachuelo, etc.





Table with columns: Call sign, Frequency, Power, Mode, and other details. Includes stations like KLL, KRC, KKB, BRG, etc.

Table with columns: Call sign, Frequency, Power, Mode, and other details. Includes stations like HFS, SUW, E4E6, etc.

Table with columns: Call sign, Frequency, Power, Mode, and other details. Includes stations like KVAR, KBZ, KBZ, etc.

17d 20h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like ABKAR Akbulak array, DUG Dugway, YKA Yellowknife Arr, etc.

IDC 17 20:04:28.21.0.28:32N:104.91E, h0km, mb3.5/6, mbmp3.5/7, ML3.6/1, MS2.9/2, Error ellipse: s-maj=40.8km s-min=19.5km az=60.0

ISC 17 20:04:31.4.0.9.28:5N:01x105.1E:0.12, h19km, n8, o:096/9, mb3.5/6, Sichuan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, SONM Songoing Array, etc.

NEIC 17 20:09:08.0.4.0.43:72N:106:05:36W:0.05, h0km, 1km, ML3.0/18, Error ellipse: s-maj=11.1km s-min=3.9km az=329.0

IDC 17 20:09:10.8.2.1.43:96N:105:80W, h0km, mbmp3.1/2, ML3.0/2, Error ellipse: s-maj=67.1km s-min=10.5km az=148.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RSSD Black Hills, K22A Casper, etc.

2019 JUN

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like YNE Yellowstone No, YNE Yellowstone, etc.

IDC 17 20:11:06.3.0.6.28:39N:104:74E, h0km, mb3.9/16, mbmp3.9/17, ML3.7/1, Error ellipse: s-maj=22.8km s-min=13.9km az=51.0

ISC 17 20:11:09.0.6.0.6.28:47N:01x104:8E:0.1, h19km, n22, o:092/6, mb4.0/17, Sichuan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, SONM Songoing Array, etc.

IDC 17 20:13:52.9.1.0.28:31N:104:91E, h0km, mb3.6/6, mbmp3.6/8, ML3.8/2, Error ellipse: s-maj=34.9km s-min=19.2km az=66.0

ISC 17 20:13:55.8.1.0.28:3N:01x104:9E:0.2, h19km, n8, o:052/8, mb3.5/6, Sichuan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, SONM Songoing Array, etc.

ISK 17 20:17:47.9.37:69N:26:93E, h3km, ML2.7/26, ATH 17 20:17:48.9.0.37:73N:26:95E, h11km, 2km, ML2.7/5, Manual Solution by F. Xalaris First location: 2019/06/17 20:19:39, This location: 2019/06/18 04:19:31 ML

ISC 17 20:17:49.2.0.9.37:71N:02:26:96E:0.02, h12km, 7km, o:054/8, o:062/83, Dodecanese Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like GCAM G?zeicami?, GCAM G?zeicami?, etc.

1000

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like DGB zmir, DGB zmir, etc.

IDC 17 20:24:09.2.8.0.5:28N:124:21E, h508km, 111km, mb2.7/6, mbmp3.6/6, Error ellipse: s-maj=144.3km s-min=23.0km az=68.0

ISC 17 20:24:08.7.1.3.5:3N:05:12:42E, h500km, n6, o:0575/7, mb3.3/6, Mindanao

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, etc.

NNC 17 20:34:35.1.0.3.43:08N:77:86E, h0km, mb3.5, mpv3.8, Error ellipse: s-maj=3.7km s-min=1.1km az=174.0

SOME 17 20:34:35.3.43:03N:77:87E, h20km, KRNET 17 20:34:36.5.0.1.43:02N:77:73E, h16km, mb3.4

KNET 17 20:34:37.3.0.5.43:06N:77:66E, h13km, 4km, ml2.9, Error ellipse: s-maj=6.2km s-min=3.9km az=129.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SATY Saty, SATY Saty, etc.







17d 21h

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Azimuth Error Error, Distance Error Error. Includes stations like KORU Korolevo, BRIU Brid, P08K Saint George I, etc.

2019 JUN

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Azimuth Error Error, Distance Error Error. Includes stations like MPLH Magyaropoly, D22K Ayikyak River, D22K Ayikyak River, etc.

1004

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Azimuth Error Error, Distance Error Error. Includes stations like CAST Castle Rocks, N19K Bonanza Creek, MANZ Manzenberg, etc.



Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Type, and other parameters. Includes stations like Denali Highway, Old Harbor, Salcha River, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Type, and other parameters. Includes stations like Peel River, Harvester, Barlow Dome, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Type, and other parameters. Includes stations like NEIC 17 21:08, GCG 17 21:08, etc.

Additional station information and coordinates: IDC 17 21:08:12.8, 2.2, 117.38N:89.37W, h0km, mb3.7/5, mbmp3.8/6, M.L4.2/1, MS3.6/3, Error ellipse: s-maj=83.9km...

17d 22h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Blakely, Vicksburg, Jarrell, El Baul, etc.

TEH 17 21:14:24.7, 27:55N-55:96E, h8km, 81km
DSN 17:14:27.0, 1.4, 27:53N-56:66E, h10km, ML2.6/4, Error ellipse: s-maj=55.0km s-min=8.4km az=114.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Bandar-Abbas, LAR, Shamm, etc.

IDC 17 21:39:45.5, 3.0, 31:14S-177:21W, h0km, mb3.5/2, mbmt3.6/3, ML3.1/1, Error ellipse: s-maj=74.8km s-min=36.8km az=119.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Urewera, Alice Springs, Warramunga Arr, etc.

FUNV 17 21:48:18.4, 9:37N-69:77W, h15km, MW3.2
RSNC 17 21:48:29.0, 10 N-14 W: 1.4, h217km, 26km, M2.7, ML2.6

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like Tepv, Macapo, Socops, etc.

2019 JUN

Main table with columns: URIC, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like CRUC, PCRV, Chengdu, etc.

1006

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like MJAR, KURB, AB31, etc.



17d 22h

Table with columns for station code, name, frequency, and signal strength. Includes stations like CN2, FITZ, BVAR, BRVK, etc.

2019 JUN

Table with columns for station code, name, frequency, and signal strength. Includes stations like HERR, SURR, KWP, BOVS, etc.

1008

Table with columns for station code, name, frequency, and signal strength. Includes stations like WET, WETZ, LPHPE, LPHPEH, etc.









Table with columns: Station Name, Frequency, Band, Mode, and Signal Strength. Includes stations like DZA Taraz, KBL Kabul, and others.

Table with columns: Station Name, Frequency, Band, Mode, and Signal Strength. Includes stations like LKRN Lenkeran, MAK Makhachkala, and others.

Table with columns: Station Name, Frequency, Band, Mode, and Signal Strength. Includes stations like VADS Vado, BR131 Keskin Array S, and others.

VAF	Vlistaro	61.66 329	eP	P	23 44 51.9 +0.5
MTSE	Matsula	61.70 324	eP	P	23 44 52.6 +0.9
YLV	Yalova	61.73 303	eP	P	23 44 52.1 -0.4
RNPP5	Gopachiv	61.75 316	eP	P	23 44 52.3 0.0
RNPP8	Varash	61.73 316	eP	P	23 44 51.9 -0.6
RNPP5	Staryi Chortor	61.78 316	eP	P	23 44 52.7 +0.2
HARR	Harsova	61.79 308	↑P	P	23 44 53.5 +0.8
HARR	Harsova	61.79 308	↑P	P	23 44 53.5 +0.8
JETT	Jettan, Norway	61.83 337	eP	P	23 44 53.2 +1.0
HORI	Horodok	61.84 313	↑P	P	23 44 52.7 -0.2
KMPD	K-Podol'sk	61.95 312	eP	P	23 44 53.1 -0.6
ICOR	Ion Corvin	62.02 307	↑P	P	23 44 55.1 +0.9
GAMB	Gambell	62.05 300	eP	P	23 44 53.5 -0.6
NWAO	Narrogin (SRO)	62.06 168	LR	LR	00 16 55.1
VSDV	Vaisvydziai	62.07 321	eP	P	23 44 55.2 +0.9
PABE	Paberze	62.13 321	eP	P	23 44 54.9 +0.1
PABE	Paberze	62.13 321	eP	P	23 44 55.5 +0.7
ODBI	Odobesti	62.16 309	↑P	P	23 44 58.4 +3.3
ODBI	Odobesti	62.16 309	↑P	P	23 44 55.9 +0.8
SPB2	Spitsbergen Ar	62.16 347	eP	P	23 44 55.4 +0.8
SPB2	Spitsbergen Ar	62.16 347	eP	IAMB	23 45 39.4
SPAO	Spitsbergen Ar	62.16 347	eP	P	23 44 55.4 +0.7
SPITS	Spitsbergen Ar	62.16 347	eP	P	23 44 55.0 +0.3
SPITS	Spitsbergen Ar	62.16 347	eP	P	23 45 35.7 +1.0
SPITS	Spitsbergen Ar	62.16 347	eP	LR	00 15 49.8
TESR	Tescani	62.26 310	↑P	P	23 44 55.8 0.0
TESR	Tescani	62.26 310	↑P	P	23 44 55.4 -0.5
ELL	Elmali	62.32 299	eP	P	23 44 56.0 -0.6
ELL	Elmali	62.32 299	eP	P	23 44 56.0 -0.6
TRO	Tromso	62.34 337	eP	P	23 44 56.6 +0.7
VRI	Vrincioia	62.36 309	↑P	P	23 44 57.6 +1.1
VRI	Vrincioia	62.36 309	↑P	P	23 44 57.0 +1.1
VRI	Vrincioia	62.36 309	↑P	P	23 44 57.0 +0.5
PRAR	RASCA	62.36 311	↑P	P	23 44 56.6 +0.1
PLOR	Plostina	62.41 309	↑P	P	23 44 58.2 +1.3
PLOR	Plostina	62.41 309	↑P	P	23 44 58.2 +1.3
ROCAM	Rodrigues Isla	62.46 225	↑P	P	23 44 56.9 -0.6
ONER	Onarj Vales Uz	62.48 310	↑P	P	23 44 58.1 +0.3
CTAO	Charters Tower	62.57 136	eP	IAMB	23 44 58.3 +0.2
CTAO	Charters Tower	62.57 136	eP	IAMB	23 44 58.3 +0.2
ISR	Istrita	62.66 309	↑P	P	23 44 57.5 -1.1
ISR	Istrita	62.66 309	↑P	P	23 44 57.5 -1.1
ISR	Istrita	62.66 309	↑P	P	23 44 58.7 +0.1
NEHR	Nehoiu	62.75 309	↑P	P	23 45 00.7 +1.5
TURR	Turia	62.80 310	↑P	P	23 45 00.9 +1.4
SUW	Suwalki	62.86 319	eP	P	23 45 00.0 +0.3
SUW	Suwalki	62.86 319	eP	P	23 44 59.6 -0.1
SUW	Suwalki	62.86 319	eP	P	23 45 00.4 +0.7
SUW	Suwalki	62.86 319	eP	P	23 44 59.6 -0.5
OZUR	Bucovina Array	62.94 310	↑P	P	23 45 01.3 +0.8
BURAR	Bucovina Array	62.97 312	eP	P	23 45 00.5 -0.2
BURAR	Bucovina Array	62.97 312	eP	P	23 45 00.5 -0.2
BUR08	Bucovina Ar. S	62.97 312	eP	P	23 45 01.2 +0.5
MLR	Muntele Rosu	62.98 309	eP	IAMB	23 45 01.5 +0.7
MLR	Muntele Rosu	62.98 309	eP	IAMB	23 45 10.1
MLR	Muntele Rosu	62.98 309	eP	LR	00 15 23.7
MLR	Muntele Rosu	62.98 309	↑P	P	23 45 01.6 +0.8
MLR	Muntele Rosu	62.98 309	↑P	P	23 45 01.0 +0.8
MLR	Muntele Rosu	62.98 309	↑P	P	23 45 01.0 +0.2
BOSR	Bodos	63.03 310	↑P	P	23 45 02.2 +1.2
STNU	Starunia	63.18 313	↑P	P	23 45 01.8 -0.2
DOPR	Dopca	63.24 310	↑P	P	23 45 03.6 +1.2
TIN	Tin City	63.38 28	eP	P	23 45 02.5 -0.4
VOIR	Voiron	63.60 309	↑P	P	23 45 06.0 +1.1
VOIR	Voiron	63.60 309	↑P	P	23 45 06.0 +1.1
VOIR	Voiron	63.60 309	↑P	P	23 45 04.8 -0.1
MEZ	Mezgor'ye	63.73 313	eP	P	23 45 06.2 -0.3
C16K	Lisburne Hills	63.88 24	eP	P	23 45 06.1 -0.1
C16K	Lisburne Hills	63.88 24	eP	P	23 45 06.2 0.0
STEI	Steigen	64.03 335	eP	P	23 45 06.0 -0.6
FAUS	Fauske	64.03 335	eP	P	23 45 07.0 -0.2
F14K	Arctic Creek	64.05 28	eP	P	23 45 07.1 -0.3
BMR	Baia Mare	64.08 312	↑P	P	23 45 09.1 +1.2
BMR	Baia Mare	64.08 312	↑P	P	23 45 09.1 +1.2
ALN	Alexandroupoli	64.09 304	eP	P	23 45 08.6 +0.6
ALN	Alexandroupoli	64.09 304	eP	P	23 45 08.6 +0.6
KWP	Kalwarja Pacla	64.11 314	eP	P	23 45 08.8 +0.7
KWP	Kalwarja Pacla	64.11 314	eP	P	23 45 08.9 +0.8
KWP	Kalwarja Pacla	64.11 314	eP	P	23 45 08.4 +0.3
EZN	Ezine	64.18 303	eP	P	23 45 08.6 0.0
KRIU	Korolevo	64.23 313	eP	P	23 45 09.1 +0.5
BRIU	Brid	64.23 313	eP	P	23 45 09.3 +0.5
RDO	Rodhopi	64.39 305	eP	P	23 45 10.4 +0.5
RDO	Rodhopi	64.39 305	eP	IAMB	23 45 12.7
MUKU	Mukachevo	64.42 313	eP	P	23 45 10.3 +0.3
VLAD	Vladia	64.42 308	↑P	P	23 45 09.5 -0.6
P08K	Saint George I	64.42 38	eP	P	23 45 08.8 -1.1
LOT	Lotru	64.47 310	↑P	P	23 45 11.1 +0.5
BERU	Beregovo	64.50 319	↑P	P	23 45 10.8 +0.2
LOF	Lofoten	64.52 335	eP	P	23 45 10.1 -0.3
KOLS	Kolonické sedl	64.56 314	eP	P	23 45 12.1 +1.1
KOLS	Kolonické sedl	64.56 314	eP	P	23 45 12.1 +1.1
KOLS	Kolonické sedl	64.56 314	eP	P	23 45 12.1 +1.1
MESR	Meseni	64.58 312	↑P	P	23 45 12.3 +1.2
HOLU	Holmets	64.59 313	eP	P	23 45 11.6 +0.4
MOR8	Moi Rana	64.61 333	eP	P	23 45 10.2 -0.8
UZH	Uzhgorod	64.63 313	eP	P	23 45 12.0 +0.6
C17K	DeLong Mountai	64.63 24	eP	P	23 45 11.3 +0.1
ANM	Nome	64.64 29	eP	P	23 45 11.1 -0.1
F15K	North Star Dit	64.69 27	eP	P	23 45 11.3 -0.2
BELK	Belsk	64.76 317	eP	P	23 45 14.8 +2.6
KARP	Karpathos	64.80 298	eP	P	23 45 13.2 +0.4
KARP	Karpathos	64.80 298	eP	P	23 45 12.5 -0.4
RDOG	Red Dog Mine	64.82 25	eP	P	23 45 11.3 -1.1
RDOG	Red Dog Mine	64.82 25	eP	IAMB	23 45 15.3
RDOG	Red Dog Mine	64.82 25	eP	P	23 45 12.0 -0.4
DRGR	Dräger	64.83 311	↑P	P	23 45 13.7 +0.8
DRGR	Dräger	64.83 311	↑P	P	23 45 13.7 +0.8
D17K	Noatak River	64.84 25	eP	P	23 45 12.6 +0.2
B16K	Kokolik River	64.91 23	eP	P	23 45 13.0 +0.1
DEV	Deva	64.94 310	↑P	P	23 45 14.6 +1.1
DEV	Deva	64.94 310	↑P	P	23 45 14.6 +1.1
VAGH	Vaagaholmen	64.94 334	eP	P	23 45 12.2 -0.9
A19K	Wainwright	64.95 22	eP	P	23 45 12.8 -0.4
KONS	Konsvik	65.05 334	eP	P	23 45 13.7 -0.2
STHS	Stebnicka Huta	65.09 314	eP	P	23 45 13.9 -0.6
G15K	Niukluk	65.10 28	eP	P	23 45 14.2 0.0
STOK	Stokkvaagen	65.13 334	eP	P	23 45 13.9 -0.5
LEIR	Leirfjorden	65.15 333	eP	P	23 45 14.4 -0.1

GZR	Gura Zlata	65.16 310	↑P	P	23 45 15.8 +0.8
GZR	Gura Zlata	65.16 310	↑P	P	23 45 15.8 +0.8
M11K	Mekuryu	65.24 33	↑P	P	23 45 14.2 -0.9
C18K	Utukok River	65.30 24	eP	IAMB	23 45 15.2 -0.3
C18K	Utukok River	65.30 24	eP	IAMB	23 45 19.2
C18K	Utukok River	65.30 24	eP	P	23 45 15.0 -0.5
E17K	Hotham Inlet	65.46 25	eP	P	23 45 16.8 +0.2
SURR	Surduc	65.50 310	↑P	P	23 45 18.2 +1.0
SURR	Herculane	65.55 309	↑P	P	23 45 18.5 +1.0
K13K	Kusilvak Mount	65.58 31	eP	P	23 45 18.2 +0.8
K13K	Kusilvak Mount	65.58 31	eP	P	23 45 17.8 +0.4
NIE	Niedzica	65.69 314	eP	P	23 45 19.4 +1.0
NIE	Niedzica	65.69 314	eP	P	23 45 20.1 +1.7
NIE	Niedzica	65.69 314	eP	P	23 45 19.1 +0.7
G16K	Koyuk River	65.69 27	eP	IAMB	23 45 17.7 -0.3
G16K	Koyuk River	65.69 27	eP	IAMB	23 45 22.1
G16K	Koyuk River	65.69 27	eP	P	23 45 17.7 -0.3
NIKH	Nikolski High	65.70 41	eP	P	23 45 18.0 -0.3
C19K	Lookout Ridge	65.74 23	eP	P	23 45 17.7 -0.7
C19K	Lookout Ridge	65.74 23	eP	P	23 45 18.7 +0.3
OJC	Ojcow	65.78 315	eP	P	23 45 19.2 +0.2
OJC	Ojcow	65.78 315	eP	P	23 45 19.1 +0.1
OJC	Ojcow	65.78 315	eP	P	23 45 19.1 +0.1
OJC	Ojcow	65.78 315	eP	P	23 45 19.0 +0.1
KECS	Kecevo	65.82 313	eP	P	23 45 21.8 +2.6
KECS	Kecevo	65.82 313	eP	P	23 45 21.8 +2.6
E18K	Tukpahleark C	65.83 25	eP	IAMB	23 45 18.8 -0.2
E18K	Tukpahleark C	65.83 25	eP	IAMB	23 45 22.8
E18K	Tukpahleark C	65.83 25	eP	P	23 45 19.2 +0.2
J14K	Nanvaranak Lak	65.87 30	eP	P	23 45 19.8 +0.6
J14K	Nanvaranak Lak	65.87 30	eP	P	23 45 19.4 +0.2
H16K	Elim	65.94 28	eP	P	23 45 19.6 0.0
MSS	Namsos	66.02 332	↑P	P	23 45 20.6 +0.4
MDVV	Moldovita	66.05 309	↑P	P	23 45 21.4 +0.6
A21K	Barrow	66.07 20	eP	P	23 45 20.2 -0.1
PEHC	Pehteco	66.10 306	eP	P	23 45 28.6 +7.3
LANS	Liptovska Anna	66.28 314	eP	P	23 45 23.0 +0.8
LANS	Liptovska Anna	66.28 314	eP	P	23 45 20.0 +0.8
B20K	Meade River	66.29 22	eP	P	23 45 22.0 +0.2
B20K	Meade River	66.29 22	eP	P	23 45 22.1 +0.2
G17K	Kiwalik Mounta	66.34 27	eP	P	23 45 21.9 -0.4
PSZ	Piszkesteto	66.36 313	eP	P	23 45 22.7 -0.1
PSZ	Piszkesteto	66.36 313	eP	P	23 45 22.7 -0.1
PSZ	Piszkesteto	66.36 313	eP	P	23 45 22.7 -0.1
PSZ	Piszkesteto	66.36 313	eP	P	23 45 23.9 +1.1
BOVS	Bovan	66.39 308	↑P	P	23 45 23.5 +0.6
F18K	Selawik	66.42 20	eP	P	23 45 22.7 0.0
D19K	Kuna River	66.42 24	eP	P	23 45 22.4 -0.4
D19K	Kuna River	66.42 24	eP	P	23 45 23.0 +0.2
HFS	Hagfors	66.44 327	eP	P	23 45 23.0 0.0
NOR	Nord	66.45 352	iP	IAMB	23 45 22.4 -0.4
NOR	Nord	66.45 352	iP	IAMB	23 45 25.9
GKP	Gorka Klaztor	66.47 319	eP	P	23 45 23.5 +0.2
GKP	Gorka Klaztor	66.47 319	eP	P	23 45 23.5 +0.2
YAY	Valandovo	66.48 305	iP	P	23 45 23.9 +0.3
M13K	Dall Lake	66.60 33	eP	P	23 45 25.1 +1.2
M13K	Dall Lake	66.60 33	eP	P	23 45 24.6 +0.7
IDI	Anoyia	66.64 299	eP	P	23 45 24.1 -0.6
IDI	Anoyia	66.64 299	eP	IAMB	23 45 37.7
L14K	Kuka Creek	66.65 32	eP	P	23 45 25.4 +1.2
L14K	Kuka Creek	66.65 32	eP	P	23 45 24.7 +0.4
A22K	Sinclair Lake	66.67 21	eP	P	23 45 24.7 +0.4
I17K	Unalakleet	66.79 29	eP	IAMB	23 45 24.8 -0.3
I17K	Unalakleet	66.79 29	eP	IAMB	23 45 29.5
I17K	Unalakleet	66.79 29	eP	P	23 45 25.5 +0.3
H17K	Granite Mounta	66.81 27	eP	IAMB	23 45 25.6 +0.3
H17K	Granite Mounta	66.81 27	eP	IAMB	23 45 29.4
H17K	Granite Mounta	66.81 27	eP	P	23 45 25.3 +0.1
UNV	Unalaska Valle	66.81 40	eP	P	23 45 25.5 +0.1
VYHS	Vyhne	66.87 314	eP	P	23 45 26.6 +0.6
D20K	Etlvuk River	66.88 23	eP	P	23 45 25.9 +0.2
D20K	Etlvuk River	66.88 23	eP	P	23 45 25.9 +0.



SQTA	baz=302,SNR=5.4	72.13 314	i P	P	23 45 58.5 -0.1
PRP	comp=Z,1.3nm,0.5s	72.14 24	P	P	23 45 58.6 +0.2
PRP	Porcupine Dome	72.14 24	P	P	23 45 58.5 +0.2
HDA	Porcupine Dome	72.14 24	P	P	23 45 58.0 -0.2
HDA	Harding Lake	72.14 26	P	P	23 45 59.2 +0.9
MOTA	Moosalm	72.15 315	eP	P	23 45 58.6 -0.1
IBBN	libbenburen	72.22 320	eP	P	23 45 59.4 +0.5
WATI	Susitna Watana	72.25 28	P	P	23 45 58.5 -0.5
KASTN	Kahler Asten	72.28 319	eP	P	23 45 59.9 +0.6
CTI	Castel Tesino	72.30 313	P	P	23 45 59.1 -0.6
CTI	Castel Tesino	72.30 313	P	P	23 45 59.1 -0.6
RETA	Reutte	72.31 315	eP	P	23 45 59.5 -0.1
INTR	Introdacqua	72.34 309	P	P	23 46 00.5 +0.6
HOM	Home	72.35 31	P	P	23 45 59.8 +0.3
CEL	Celeste	72.36 304	P	P	23 46 03.1
CEL	Celeste	72.36 304	P	P	23 46 03.1
D28M	Stokes Point	72.36 20	P	P	23 45 59.4 -0.7
Q20K	Shuyak Island	72.45 32	P	P	23 45 59.7 -0.4
SII	Sitkinak Island	72.46 35	P	P	23 46 00.1 -0.2
CAMP	Campotosto	72.48 309	P	P	23 46 01.0 +0.2
FDMO	Fiordimonte	72.51 310	P	P	23 46 00.9 0.0
FETA	Feichten	72.51 314	i P	P	23 46 00.9 0.0
E28M	Babbage River	72.53 20	P	P	23 46 00.9 +0.4
E28M	Babbage River	72.53 20	P	P	23 46 00.9 +0.4
TEOL	Teolo	72.55 312	P	P	23 46 01.1 +0.1
AQU	L'Aquila	72.55 309	P	P	23 46 02.3 +1.1
RC01	Rabbit Creek A	72.55 29	P	P	23 46 04.0 -0.3
RC01	Rabbit Creek A	72.55 29	P	P	23 46 04.0 -0.3
RC01	Rabbit Creek A	72.55 29	P	P	23 46 01.2 +0.5
NRCA	Norcia	72.57 310	P	P	23 46 01.0 -0.3
PMR	Palmer	72.58 29	P	P	23 46 00.9 +0.1
PMR	Palmer	72.58 29	P	P	23 46 00.9 +0.1
PMR	Palmer	72.58 29	P	P	23 46 00.9 +0.1
GHO	Glory Hole Cre	72.59 29	P	P	23 46 00.0 +0.1
DHY	Denali Highway	72.61 27	P	P	23 46 01.1 -0.2
DHY	Denali Highway	72.61 27	P	P	23 46 03.7
DHY	Denali Highway	72.61 27	P	P	23 46 00.7 -0.5
OHAK	Old Harbor	72.62 34	P	P	23 46 01.1 0.0
OHAK	Old Harbor	72.62 34	P	P	23 46 04.6
OHAK	Old Harbor	72.62 34	P	P	23 46 00.9 -0.2
J25K	Salcha River	72.64 25	P	P	23 46 00.4 -0.9
J25K	Salcha River	72.64 25	P	P	23 46 04.9
BR5K	Bradley Lake	72.64 31	P	P	23 46 00.8 -0.6
UBR	Ueberuhr	72.64 315	eP	P	23 46 01.2 -0.4
TNS	Tanus Mts	72.64 318	eP	P	23 46 02.4 -0.4
WAT6	Susitna Watana	72.70 28	P	P	23 46 01.2 -0.5
BRSE	Bradley Lake S	72.72 31	P	P	23 46 01.3 -0.5
KDAK	Kodiak Island	72.72 33	P	P	23 46 01.4 -0.3
KDAK	Kodiak Island	72.72 33	P	P	23 46 01.3 -0.5
KDAK	Kodiak Island	72.72 33	P	P	00 20 04.6
KDAK	Kodiak Island	72.72 33	P	P	23 46 01.4 -0.3
KDAK	Kodiak Island	72.72 33	P	P	23 46 01.4 -0.3
KDAK	Kodiak Island	72.72 33	P	P	23 46 02.1 +0.4
STU	Stuttgart	72.77 316	P	P	23 46 02.3 0.0
STU	Stuttgart	72.77 316	P	P	23 46 13.9
STU	Stuttgart	72.77 316	P	P	23 46 02.3 0.0
STU	Stuttgart	72.77 316	P	P	23 46 02.8 +0.5
MURB	Monte Urbano	72.80 310	P	P	23 46 03.5 +0.9
SML	Sawmill	72.82 28	P	P	23 46 02.5 +0.1
SML	Sawmill	72.82 28	P	P	23 46 02.5 +0.1
G27K	Doyon Strip	72.83 22	P	P	23 46 03.0 +0.7
G27K	Doyon Strip	72.83 22	P	P	23 46 06.5
G27K	Doyon Strip	72.83 22	P	P	23 46 02.6 +0.3
BUG	Bochum-Univer	72.84 320	eP	P	23 46 03.4 +0.8
K24K	Donnelly Dome	72.89 26	P	P	23 46 02.5 -0.2
K24K	Donnelly Dome	72.89 26	P	P	23 46 02.5 -0.2
DAVA	Damules	72.94 315	i P	P	23 46 03.4 -0.1
KNK	Knik Glacier	72.95 29	P	P	23 46 02.7 -0.5
KNK	Knik Glacier	72.95 29	P	P	23 46 06.3
KNK	Knik Glacier	72.95 29	P	P	23 46 02.0 -1.2
FUORN	Ofenpass-Fuorn	72.96 314	P	P	23 46 03.4 -0.4
F28M	Old Crow	72.97 21	P	P	23 46 03.1 -0.1
F28M	Old Crow	72.97 21	P	P	23 46 06.5
F28M	Old Crow	72.97 21	P	P	23 46 03.6 +0.5
CESX	Cesi	73.02 310	P	P	23 46 03.3 -0.5
M23K	Glacier View	73.08 28	P	P	23 46 03.7 -0.1
I26K	Coal Creek Min	73.10 24	P	P	23 46 04.0 +0.1
I26K	Coal Creek Min	73.10 24	P	P	23 46 06.9
I26K	Coal Creek Min	73.10 24	P	P	23 46 03.6 -0.3
SEW	Seward	73.13 30	P	P	23 46 03.4 -0.8
DAVOX	Davos/Dischmat	73.14 314	LR	LR	00 21 10.3
E29M	Blow River	73.15 20	P	P	23 46 04.2 +0.1
E29M	Blow River	73.15 20	P	P	23 46 08.3
E29M	Blow River	73.15 20	P	P	23 46 04.9 +0.7

H27K	Steamboat Moun	73.18 23	P	P	23 46 04.6 +0.2
H27K	Steamboat Moun	73.18 23	P	P	23 46 08.2
H27K	Steamboat Moun	73.18 23	P	P	23 46 04.6 +0.2
SCM	Sheep Creek Mo	73.23 28	P	P	23 46 05.2 +0.4
SCM	Sheep Creek Mo	73.23 28	P	P	23 46 40.4
SCM	Sheep Creek Mo	73.23 28	P	P	23 46 05.2 +0.4
SCM	Sheep Creek Mo	73.23 28	P	P	23 46 04.3 -0.6
PWL	Port Wells	73.27 29	P	P	23 46 04.7 -0.3
PWL	Port Wells	73.27 29	P	P	23 46 07.9
PWL	Port Wells	73.27 29	P	P	23 46 03.9 -1.1
RIDG	Independent Ri	73.28 26	P	P	23 46 04.4 -0.7
RIDG	Independent Ri	73.28 26	P	P	23 46 08.0
RIDG	Independent Ri	73.28 26	P	P	23 46 04.2 -0.9
PLONS	Plons/SG	73.35 315	eP	P	23 46 05.7 -0.1
J26L	Joseph Creek	73.37 25	P	P	23 46 05.3 -0.3
J26L	Joseph Creek	73.37 25	P	P	23 46 08.7
J26L	Joseph Creek	73.37 25	P	P	23 46 04.6 -1.0
ZCCA	Zocca	73.40 312	P	P	23 46 06.3 +0.2
ZCCA	Zocca	73.40 312	P	P	23 46 25.4
PAX	Paxson	73.42 27	P	P	23 46 05.4 -0.5
PAX	Paxson	73.42 27	P	P	23 46 07.9
PAX	Paxson	73.42 27	P	P	23 46 05.4 -0.5
PAX	Paxson	73.42 27	P	P	23 46 05.6 -0.3
NEEM	North Greenlan	73.44 355	i P	P	23 46 06.7 +0.7
NEEM	North Greenlan	73.44 355	i P	P	23 46 09.9
BFO	Black Forest	73.48 316	P	P	23 46 06.6 +0.1
BFO	Black Forest	73.48 316	P	P	23 46 06.6 +0.1
BFO	Black Forest	73.48 316	eP	P	23 46 07.3 +0.8
SCRK	Sand Creek	73.48 25	P	P	23 46 05.8 -0.5
SCRK	Sand Creek	73.48 25	P	P	23 46 09.7
SCRK	Sand Creek	73.48 25	P	P	23 46 05.7 -0.7
I27K	Kandik River	73.49 23	P	P	23 46 06.9 +0.6
WILA	Wila	73.50 315	eP	P	23 46 06.5 -0.1
OSSO	Osservatorio P	73.55 311	P	P	23 46 06.8 -0.2
M24K	Tolsona, Glenn	73.57 28	P	P	23 46 07.5 +0.7
M24K	Tolsona, Glenn	73.57 28	P	P	23 46 07.3 +0.5
TUE	Stuetta	73.60 314	P	P	23 46 06.9 -0.6
TUE	Stuetta	73.60 314	P	P	23 46 06.7 -0.8
SLE	Schleiheim	73.61 316	eP	P	23 46 07.9 +0.6
DOT	Dot Lake	73.62 26	P	P	23 46 06.8 -0.3
PRMA	PRIMA	73.67 312	P	P	23 46 07.5 -0.1
VAE	Valguarnera	73.74 304	LR	LR	00 26 38.2
GLI	Glacier Island	73.79 29	P	P	23 46 07.6 -0.5
HARP	HAARP	73.83 27	P	P	23 46 08.2 -0.1
BTNL	Temel	73.85 319	eP	P	23 46 09.8 +1.2
MEM	Membach	73.91 319	eP	P	23 46 10.9 +2.0
SULZ	Cheisacher	73.94 316	eP	P	23 46 09.5 +0.2
G29M	Pine Creek	73.96 21	P	P	23 46 08.9 -0.1
G29M	Pine Creek	73.96 21	P	P	23 46 12.1
G29M	Pine Creek	73.96 21	P	P	23 46 08.7 -0.3
KLU	Klutina	73.98 28	P	P	23 46 09.5 +0.2
KLU	Klutina	73.98 28	P	P	23 46 13.4
KLU	Klutina	73.98 28	P	P	23 46 08.9 -0.3
FID	Port Fidalgo	74.12 29	P	P	23 46 10.3 +0.4
FID	Port Fidalgo	74.12 29	P	P	23 46 15.7
A36M	Sachs Harbour	74.12 14	P	P	23 46 09.9 +0.1
A36M	Sachs Harbour	74.12 14	P	P	23 46 21.1
A36M	Sachs Harbour	74.12 14	P	P	23 46 09.7 -0.1
MENT	Miner Creek	74.13 26	P	P	23 46 10.4 +0.4
I28M	Miner Creek	74.16 23	P	P	23 46 10.0 -0.2
I28M	Miner Creek	74.16 23	P	P	23 46 05.5 +0.2
K27K	Chicken	74.17 25	P	P	23 46 10.7 +0.5
K27K	Chicken	74.17 25	P	P	23 46 14.6
K27K	Chicken	74.17 25	P	P	23 46 10.3 +0.1
BSTI	Sart Tilman	74.17 319	eP	P	23 46 11.3 +0.9
DIV	Divide	74.22 28	P	P	23 46 10.9 +0.3
DIV	Divide	74.22 28	P	P	23 46 14.7
L26K	Log Cabin Wild	74.22 26	P	P	23 46 11.4 +0.8
L26K	Log Cabin Wild	74.22 26	P	P	23 46 11.3 +0.8
WLF	Walferdange	74.23 318	P	P	23 46 11.3 +0.5
WLF	Walferdange	74.23 318	P	P	23 46 14.5
WLF	Walferdange	74.23 318	P	P	23 46 11.3 +0.5
WLF	Walferdange	74.23 318	eP	P	23 46 11.7 +0.9
ECH	Echery	74.24 316	P	P	23 46 12.1 +1.3
ECH	Echery	74.24 316	P	P	23 46 10.3 -0.6
ECH	Echery	74.24 316	P	P	23 46 10.3 -0.6
F30M	Barrier River	74.25 20	P	P	23 46 10.9 +0.3
F30M	Barrier River	74.25 20	P	P	23 46 13.9
F30M	Barrier River	74.25 20	P	P	23 46 10.8 +0.2
H29M	Whitestone	74.25 22	P	P	23 46 10.5 -0.2
H29M	Whitestone	74.25 22	P	P	23 46 14.2
H29M	Whitestone	74.25 22	P	P	23 46 10.1 -0.5
BALST	Balsthal	74.28 315	eP	P	23 46 11.2 0.0
BCLA	Clavier	74.40 319	eP	P	23 46 12.7 +0.9
N25K	Chitina, Valde	74.47 28	P	P	23 46 12.6 +0.5
N25K	Chitina, Valde	74.47 28	P	P	23 46 12.2 +0.1
SCO	Scoresbysund	74.49 344	P	P	23 46 12.3 +0.4
SCO	Scoresbysund	74.49 344	P	P	23 46 12.3 +0.4
INK	Inuvik	74.50 19	P	P	23 46 11.9 -0.1
INK	Inuvik	74.50 19	P	P	23 46 14.8
INK	Inuvik	74.50 19	P	P	23 46 11.6 -0.4
INK	Inuvik	74.50 19	P	P	00 23 52.8
INK	Inuvik	74.50 19	P	P	23 46 11.9 -0.1
INK	Inuvik	74.50 19	P	P	23 46 11.9 -0.1
G30M	Atoh Zraii Nji	74.50 21	P	P	23 46 11.5 -0.6

G30M	Atoh Zraii Nji	74.50 21	P	P	23 46 11.5 -0.6
EYAK	Cordova Ski Ar	74.53 29	P	P	23 46 12.4 +0.1
BGES	Nabesna, AK	74.54 319	eP	P	23 46 14.2 +1.7
M26K	Nabesna, AK	74.69 27	P	P	23 46 13.2 -0.2
M26K	Nabesna, AK	74.69 27	P	P	23 46 17.0
M26K	Nabesna, AK	74.69 27	P	P	23 46 13.6 +0.3
EPYK	Eagle Plains	74.70 22	P	P	23 46 13.4 +0.1
EPYK	Eagle Plains	74.70 22	P	P	23 46 15.5
EPYK	Eagle Plains	74.70 22	P	P	23 46 12.7 -0.6
BMRD	Mareduos	74.76 319	eP	P	23 46 14.8 +1.0
I29M	Ogllivie Camp,	74.77 23	P	P	23 46 13.6 -0.1
UCC	Uccle	74.77 320	P	P	23 46 14.0 +0.1
UCC	Uccle	74.77 320	P	P	23 46 14.0 +0.1
UCC	Uccle	74.77 320	P	P	23 46 14.8 +0.9
L27K	Beaver Creek,	74.79 26	P	P	23 46 14.2 +0.3
L27K	Beaver Creek,	74.79 26	P	P	23 46 18.4
L27K	Beaver Creek,	74.79 26	P	P	23 46 14.1 +0.2
BMRM	Bremner River	74.80 28	P	P	23 46 14.3 +0

18d Oh

Table with columns: Call Sign, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other parameters. Includes stations like Chambon-Foret, Yuk6, N30M, etc.

2019 JUN

Table with columns: Call Sign, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other parameters. Includes stations like Sonseca Array, LSZ, LU, etc.

1016

Table with columns: Call Sign, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other parameters. Includes stations like BDFB, PMNB, etc.

RSNC 17:23:53:11.4:0.0,5'N2:7'6'W, h53km, 5km, M1.9, ML1.6, Colombia

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like San Jos del P, Niza, etc.

NEIC 17:23:55:55.0:1.5, 4.0S:0.2:128.64E:0.09, h117km, 22km, mb4.3/9, Error ellipse: s-maj=28.3km s-min=11.4km

Table with columns: Call Sign, Frequency, Mode, Power, Azimuth, Elevation, SNR, and other parameters. Includes stations like DJA, IDA, etc.

ISC 17:23:55:54.2:0.8, 4.13S:0.07:128.66E:0.05, h100km, n25, i154/28, Banda Sea

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AA, AAI, etc.

IDC 18:00:02:18.5:1.2, 37.16S:52.38E, h0km, mb3.7/4, mbmtop3.7/4, Error ellipse: s-maj=49.1km s-min=30.3km

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like H04N1, H04N2, etc.

JMA 18:00:14:22.7:0.5, 22'N:2:12'6'E, h139km, MW3.5/8, FAR S OFF ISHIGAKIJIMA, Southeast of Taiwan

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like JTJ, JKT, etc.





18

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like BKZ, WNVZ, PNHZ, etc.

2019 JUN

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like WRA, WRR, WBO, etc.

1018

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like LPIG, TJN, BO02, etc.



18d 3h

Table with columns: Code, Station Name, Az, Phase ID, Time Res, and various station identifiers. Includes stations like RCPN, BOAB, JAYA, NEIC, TXNET, MEX, ALPN, VHRN, PECS, MNTX, and OZNA.

2019 JUN

Table with columns: ODSA, IAmB\_Lg, and various station identifiers. Includes stations like ODSA, DRIO, HNDO, 833A, POST, SNO5, PDIG, CSIG, MNTX, SBM, ANMO, HSIQ, MLDN, GUYB, WHTX, FW03, TUC, WFTS, SMWD, FW06, W14, W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30, W31, W32, W33, W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44, W45, W46, W47, W48, W49, W50, W51, W52, W53, W54, W55, W56, W57, W58, W59, W60, W61, W62, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90, W91, W92, W93, W94, W95, W96, W97, W98, W99, W100.

1020

Table with columns: KSCO, IAmB\_Lg, and various station identifiers. Includes stations like KSCO, PV18, PV12, PV19, PV20, T35A, PV04, PV10, PV23, MIAR, U38A, X40A, HHAR, FCAR, MGCM, PDAR, P40A, ELK, NVAR, L42A, TKL, TKL, EPL0, EPL0, ULM, YKA, SDV, PCRV, ILAR, MDP, FINES, URZ, DZM, ASAR, WRA, QSPA, FINES, KAP1, FITZ, WRA, ASAR, MKAR, KURB, BVAR, SJA, IDC, NEIC, GUC, VAO, ISC, Code, Station Name, Az, Phase ID, Time Res, and various station identifiers.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, and various satellite codes. Includes stations like IPOC Station P, IPOC Station P, IPOC Station P, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, and various satellite codes. Includes stations like South Pole Qui, Lac du Bonnet, Warramunga Arr, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, and various satellite codes. Includes stations like Green Lake, Raoul Island, Matakaoa Point, etc.

























Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like Castelo Branco, Sardoal, Porto Santo, Marv'27o, Montargil, Sonseca Array, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like Green Lake, Raoul Island, Matakaoa Point, Waionatini S, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like Popocatepetl, Petatlan, AMECAMECA, San Miguel Top, etc.

JMA 18 05:31:13.8,0.7,44°N,3°14'8E, h24km, MV3.5/11, SE OFF TETOROJU

IDC 18 06:24:47.8,3.4,15°85'N,98°32'W, h0km, mb3.0/8, mbmp3.8/3, Error ellipse: s-maj=162.0, Southern East Pacific Rise

IDC 18 06:24:47.8,3.4,15°85'N,98°32'W, h0km, mb3.0/8, mbmp3.8/3, Error ellipse: s-maj=162.0, Southern East Pacific Rise

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like Shikotan, KUR, NEM2, NMR, JRA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like PNIG, CRIG, PEIG, YGIG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like ZUMV, ZUMV, ZUMV, etc.

IDC 18 05:46:56.9,1.3,55°60'S,126°98'W, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=275.2km

IDC 18 05:46:56.9,1.3,55°60'S,126°98'W, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=275.2km

IDC 18 05:46:56.9,1.3,55°60'S,126°98'W, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=275.2km

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like H03S2, H03S1, H03S3, H03N3, H03N2, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like ACAP2, ACAP2, HMTT, OXIG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like ACIG, ACIG, ACIG, etc.

ASRS 18 06:00:15.0,1.5,54°17'N,87°20'E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 18 06:00:15.0,3.5,54°20'N,87°51'E, h0km, mbmp2.7/2, ML2.2/2, Error ellipse: s-maj=30.8km s-min=20.1km

IDC 18 06:00:15.0,3.5,54°20'N,87°51'E, h0km, mbmp2.7/2, ML2.2/2, Error ellipse: s-maj=30.8km s-min=20.1km

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like ZALESOV, ZALV, ZALV, KURBB, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like PLIG, PLIG, PLIG, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC. Includes stations like TXAR, TXAR, TXAR, etc.

IDC 18 06:15:54.7,1.6,30°99'S,177°64'W, h0km, mb4.1/3, mbmp4.1/3, MS3.4/6, Error ellipse: s-maj=47.3km

IDC 18 06:15:54.7,1.6,30°99'S,177°64'W, h0km, mb4.1/3, mbmp4.1/3, MS3.4/6, Error ellipse: s-maj=47.3km

IDC 18 06:15:54.7,1.6,30°99'S,177°64'W, h0km, mb4.1/3, mbmp4.1/3, MS3.4/6, Error ellipse: s-maj=47.3km

Table with columns: Code, Station Name, Az, Op, Phase, ID, Time, Res, ISC. Includes stations like Leonard, Albuquerque, West end E0370, Waverly Hill, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ID, Time, Res, ISC. Includes stations like Baker Lake, Juan Fernandez, Juan Fernandez, Elsieon Array, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ID, Time, Res, ISC. Includes stations like TONANKAI O.B.S., Sagara, Kakegawashinon, etc.











18 2010h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV 0.4nm,0.3s, etc.

PRE 18 09:05:23.0,0.8,22.80S,24.95E, h5km, ML2.6
BUL 18 09:05:27.3,0.8,22.64S,25.23E, h23km,10km, MD3.5
BGSJ 18 09:05:28.2,1.6,22.83S,25.23E, h80km,20km, ML3.1

Main table for 18 2010h section, listing various stations and their parameters. Includes stations like LPHPEP Lephophe, SKOMA Sekoma, LBTB Lobatse, etc.

IDC 18 09:08:27.1,4.9,29.77S,178.76W, h0km, mb3.8/2,
mbtmp3.8/2, Error ellipse: s-maj=218.8km
s-min=77.9km az=165.0, Kermadec Islands

Table for ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B, etc.

RSNC 18 09:24:49.0,7.1N,173W, h151km, mb3.1, mb3.4,
mb5.9, ML2.9, Mw(mb)5.5, Northern Columbia

Table for BARC Barichara, BRJC Barrancabermej, PAMC Pamplona, etc.

2019 JUN

Table for 2019 JUN section, listing stations like UREC GUY2C, GUY2C Guyana, CALDAS, etc.

GCG 18 09:41:26.9,0.9,13.68N,89.89W, h111km,8km, MD3.4,
ML3.4
SNET 18 09:41:27.8,0.7,13.78N,89.98W, h101km, ML2.6
CATAC 18 09:41:29.3,0.8,14.14N,89.99W, h86km,5km, M2.5/8,
ML2.5/8, Error ellipse: s-maj=19.0km s-min=8.4km
az=30.6, confirmed

Main table for 2019 JUN section, listing stations like NUBE Las Nubes, FAME Alcala, etc.

ASRS 18 09:47:07.0,0.6,53.78N,88.21E, h0km, M2.6, The
earthquake of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 18 09:47:10.6,3.3,53.83N,88.18E, h0km, mbtmp2.9/2,
ML2.7/2, Error ellipse: s-maj=31.1km s-min=20.6km
az=44.0, Southwestern Siberia

Table for I46RU ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV 2.1nm,0.3s, etc.

IDC 18 09:47:17.8,2.6,31.19S,177.25W, h0km, mb3.6/2,
mbtmp3.7/3, ML3.3/1, Error ellipse: s-maj=68.2km
s-min=35.8km az=120.0, Kermadec Islands region

Table for URZ Urewera, WRA Warramunga Arr, FINES FINESS Array B, etc.

DJA 18 09:55:31.0,0.5,0.5S,123E, h150km,6km, M3.8/9,
ML3.8/9, Minahasa Peninsula, Sulawesi

Table for LUWI Luwuk, KMSI Cibinong, MPRI Marisa, etc.

NOU 18 09:56:34.3,33.39S,177.10W, h162km, mb4.5/7, South of
Kermadec Islands

1038

WEL 18 09:56:42.5,0.8,34.6S,178W, h14, h12km, mB5.1/9,
ML4.6/15, ML4.7/14, Mw(mb)4.4/9, Error ellipse:
s-maj=15.7km s-min=4.1km az=109.9, confirmed
IDC 18 09:56:43.2,0.9,33.33S,178.67W, h0km, mb4.2/5,
mbtmp4.3/6, ML4.5/1, MS3.5/7, Error ellipse: s-maj=31.0km
s-min=26.3km az=62.0
NEIC 18 09:56:45.3,1.7,33.71S,0.09,178.5W,0.2, h10km,1km,
mb4.4/13, Error ellipse: s-maj=25.7km s-min=14.5km
az=104.0
ISC 18 09:56:48.5,0.7,33.74S,0.07,178.39W,0.10, h41km, n71,
rF58/82, mb4.3/13, MS3.7/5, SC, South of Kermadec

Table for 1038 section, listing stations like GLKZ Green Lake, RAO Raoul Island, etc.

URZ Urewera, URZ Urewera, RIGZ Rimuhau, etc.

Main table for 1038 section, listing stations like RIGZ Rimuhau, WAZ Waheke Island, etc.

ASRS 18 09:47:07.0,0.6,53.78N,88.21E, h0km, M2.6, The
earthquake of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 18 09:47:10.6,3.3,53.83N,88.18E, h0km, mbtmp2.9/2,
ML2.7/2, Error ellipse: s-maj=31.1km s-min=20.6km
az=44.0, Southwestern Siberia

Table for WBO Warramunga Arr, KNRA Kununurra, FITZ Fitzroy Cross, etc.

ASRS 18 09:47:07.0,0.6,53.78N,88.21E, h0km, M2.6, The
earthquake of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 18 09:47:10.6,3.3,53.83N,88.18E, h0km, mbtmp2.9/2,
ML2.7/2, Error ellipse: s-maj=31.1km s-min=20.6km
az=44.0, Southwestern Siberia

Table for TROLL TROLL, SNAAS Sanae, SNAAS Sanae, etc.

ASRS 18 09:47:07.0,0.6,53.78N,88.21E, h0km, M2.6, The
earthquake of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 18 09:47:10.6,3.3,53.83N,88.18E, h0km, mbtmp2.9/2,
ML2.7/2, Error ellipse: s-maj=31.1km s-min=20.6km
az=44.0, Southwestern Siberia

Table for BVAR Borovoye Arr, ARCS Archa Arr, FIAI FINESS Arr, etc.

NEIC 18 10:04:20.6,2.2,36.2S,0.1,99.3W,0.1, h10km,1km,
mb4.7/15, Error ellipse: s-maj=21.8km s-min=16.5km





18d 11h

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Gallatin River, Sixmile, Bozeman Pass, Mission Creek, etc.

18d 10:53:56.8-0.9, 28.34N-104.81E, h0km, mb3.77, mbmp3.78, ML3.8/1, MS3.2/9, Error ellipse: s-maj=38.6km s-min=17.2km az=57.0

NEIC 18 10:53:58.0-0.7, 28.34N-104.81E, h10km, 1km, mb4.4/35, Error ellipse: s-maj=20.2km s-min=17.4km az=128.0

ISC 18 10:53:59.8-0.7, 28.37N-108.104488E-0.07, h19km, n60, a1507/57, mb4.3/26, MS3.0/7, Sichuan

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Enshi, ChangSha, Wuhan, Guangzhou, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Alice Springs, Malin Array, Malin Array S, etc.

BUT 18 10:58:49.7-1.1, 45.86N-101.1136W-0.02, h0km, 1km, Error ellipse: s-maj=1.8km s-min=1.7km az=87.0

NEIC 18 10:58:49.5-1.0, 45.88N-101.1136W-0.02, h5km, 1km, ML2.6/42, ML2.9/26(BUT), Error ellipse: s-maj=3.0km s-min=2.3km az=33.0, Montana

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Sixmile, Bozeman Pass, Mission Creek, etc.

1040

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like PLID, PDAR, LAO, Cines Array, etc.

18d 11:28:23.2-2.0, 8.2919N-106.34E, h0km, mb3.4/3, mbmtmp3.4/3, Error ellipse: s-maj=522.5km s-min=28.1km az=54.0, Sichuan

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Makanchi Array, WRA, ASAR, etc.

VAO 18 11:28:20.9-1.1, 10.63N-62.29W, h10km, mb4.4, NEIC 18 11:28:23.2-2.0, 8.2919N-106.34E, h0km, mb3.4/3, mb4.4/41, Error ellipse: s-maj=10.1km s-min=9.8km az=147.0

FUNV 18 11:28:25.5, 10.83N-62.27W, h28km, MW4.3, TRN 18 11:28:25.5, 10.88N-62.31W, h54km, MD4.6, North of the Paria peninsula, Felt in Trinidad, MMI IV, V, VI, IDC 18 11:28:26.1-1.6, 10.95N-62.45W, h113km, 13km, 3km, 7/8, mbmp4.1/10, Error ellipse: s-maj=18.9km s-min=11.8km az=114.0

ISC 18 11:28:23.4-0.7, 10.86N-104.6237W-0.04, h88km, 7km, n134, a1562/169, mb4.2/25, Near coast of Venezuela

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Kent House, Po, Trinidad (W), Pointe-a-Pierre, etc.



Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like PAPH, ROSC, MACA, FLOC, NPGB, OTAV, SLOP, PRPB, CZSB, LCR2, CLDB, PDRB, ATAH, SNDB, SIV, LPAZ, PB16, GO01, PB11, PB08, PB08, FCAR, FCAR, HBVL, BRDY, KAN14, SAND, POST, TXAR, TXAR, SCHG, RTBA, RTBA, MT02, MINTX, MT09, BO04, T25A, T25A, BO02, BO02, BNM, EPLO, AGMN, ANMO, SDCO, ULM, PV01, PV01, PV02, PV03, PV19, P18A, P18A, BSUT, BW06, PD31, PD31, PDAR, PDAR, PLCA, DUG, BGU, YHL, YHL, DLMT, HLID, HOPS, CMAR, ASAR, WRA.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MKAR, PALK, KURBB, ZALV, WRA, VAE, HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MKAR, PALK, KURBB, ZALV, WRA, VAE, HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MKAR, PALK, KURBB, ZALV, WRA, VAE, HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

IDC 18 12:12:44.1, 0.7, 55.16S; 28.17W, h0km, mb4.3/6, mbmp4.3/7, ML4.3/1, MS3.9/13, Error ellipse: s-maj=31.6km s-min=17.9km az=58.0, NEIC 18 12:46.5, 1.4, 55.2S; 0.1:28.2W; 0.2, h10km, 1km, mb4.9/37, Error ellipse: s-maj=20.9km s-min=15.9km az=202.0

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

IDC 18 12:28:52.0, 0.6, 20.09S; 174.03W, h0km, mb4.3/15, mbmp4.3/17, ML4.2, 22, MS3.8/13, Error ellipse: s-maj=22.5km s-min=15.9km az=113.0, NEIC 18 12:28:53.1, 1.8, 20.02S; 0.10:173.30W; 0.07, h10km, 1km, mb4.8/68, Error ellipse: s-maj=17.0km s-min=11.0km az=182.0

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

IDC 18 12:28:54.0, 0.4, 20.13S; 0.08:173.47W; 0.06, h25km, n113, 0.1878/93, mb4.7/48, MS3.7/9, 4C, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

IDC 18 11:50:09.5, 1.3, 28.04N; 100.55E, h0km, mb3.4/4, mbmp3.5/6, MS3.5/2, Error ellipse: s-maj=76.2km s-min=23.3km az=57.0, Yunnan

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MKAR, PALK, KURBB, ZALV, WRA, VAE, HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like ASAR, CMAR, BVAR, YKA, K29M, EPYK, YAH, DAWY, G29M, M27K, E29M, I28M, BCAR, L27K, F28M, E28M, DZ2M, E27K, SCRK, F26K, SCM, DZ7K, D20T, PRP, DHY, SML, F25K, ILAR, ILAR, WRH, GZAK, DDT, MCK, BWN, SKT, KTH, TOLK, SONM, ASAR, CMAR, BVAR, YKA, K29M, EPYK, YAH, DAWY, G29M, M27K, E29M, I28M, BCAR, L27K, F28M, E28M, DZ2M, E27K, SCRK, F26K, SCM, DZ7K, D20T, PRP, DHY, SML, F25K, ILAR, ILAR, WRH, GZAK, DDT, MCK, BWN, SKT, KTH, TOLK, SONM.

IDC 18 12:28:52.0, 0.6, 20.09S; 174.03W, h0km, mb4.3/15, mbmp4.3/17, ML4.2, 22, MS3.8/13, Error ellipse: s-maj=22.5km s-min=15.9km az=113.0, NEIC 18 12:28:53.1, 1.8, 20.02S; 0.10:173.30W; 0.07, h10km, 1km, mb4.8/68, Error ellipse: s-maj=17.0km s-min=11.0km az=182.0

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like NIUE, NIUE, AFI, FUFU, MSVF, MSVF, RAR, RAR, RAR, PINN, PINN, DZM, DZM, URZ, URZ, URZ, PPT, RPZ, CAN, CAN, CTAO, PMG, TOO, STKA, STKA, COEN, MANU, MANU, JAY, WRR, WRR, ASAR, ASAR, ASAR, ASAR, WBO, WBO, WRA, WRA, GUMO, MTN, MTN, FITZ, FITZ, SBA, SBA, VNA4, VNA4, VNA4, VNA4, SOEI, NWAO, MORW, GSPA, GSPA, GSPA, SOEI, NWAO, MORW, GSPA, GSPA, GSPA.

IDC 18 12:28:54.0, 0.4, 20.13S; 0.08:173.47W; 0.06, h25km, n113, 0.1878/93, mb4.7/48, MS3.7/9, 4C, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like NIUE, NIUE, AFI, FUFU, MSVF, MSVF, RAR, RAR, RAR, PINN, PINN, DZM, DZM, URZ, URZ, URZ, PPT, RPZ, CAN, CAN, CTAO, PMG, TOO, STKA, STKA, COEN, MANU, MANU, JAY, WRR, WRR, ASAR, ASAR, ASAR, ASAR, WBO, WBO, WRA, WRA, GUMO, MTN, MTN, FITZ, FITZ, SBA, SBA, VNA4, VNA4, VNA4, VNA4, SOEI, NWAO, MORW, GSPA, GSPA, GSPA, SOEI, NWAO, MORW, GSPA, GSPA, GSPA.

IDC 18 11:50:09.5, 1.3, 28.04N; 100.55E, h0km, mb3.4/4, mbmp3.5/6, MS3.5/2, Error ellipse: s-maj=76.2km s-min=23.3km az=57.0, Yunnan

Table with columns: Code, Station Name, Az, Az', Phase, ID, Time, Res, h, m, s, ISC. Includes stations like MKAR, PALK, KURBB, ZALV, WRA, VAE, HOPE, VNA3, VNA2, SNA3, SNA3, PMSA, TROLL, BELA, TRQA, TRQA, PLCA, QSPA, QSPA, QSPA, BO02, BO02, CPUP, CPUP, CPUP, MT09, MT09, MT01, PEL, PEL, VA05, ZON, ZON, MT02, VA03, VA03, VA06, CO03, CO01, MAW, BDFB, G002, PB01, PTBL, BOSA, BOSA, BOSA, PB08, GO01, GO01, PB11, VNA4, VNA4, VILB, VILB, KGCAE, LBTB, LBTB, LBTA, LPAZ, LPAZ, GRTL, GRTL, QNGWA, QNGWA, MREMI, MATP, LSZ, ATAH, MDP, DBIC, AIS, TORO, SJG, NMDO, NMDO.







OKH	comp=N,138µm,14.0s	MLR	MLR						
OKH	comp=E,275µm,14.0s	MLR	MLR						
SSE	Sheshan	16.77 249	P	P	13 26 17.9	+0.8			
SSE			S	Sn	13 29 21.3	+0.6			
SSE	comp=E,170nm,1.0s		S	Pmax					
SKR	Severo-Kuril's	16.85 39	eP	Pn	13 26 16.6	+0.7			
SKR	comp=Z,2µm,1.6s			Pmax					
SKR	comp=Z,20µm,5.2s			Pmax					
SKR	comp=Z,138µm,15.0s			MLR	MLR				
ZEA	Zeya	17.28 335	eP	P	13 26 22.8	+0.1			
ZEA			eS	Sn	13 29 26.9	-6.1			
ZEA	comp=E,9µm,5.7s			Pmax					
ZEA	comp=N,12µm,5.3s			Pmax					
ZEA	comp=Z,17µm,5.2s			Pmax					
ZEA	comp=E,300nm,1.2s			Pmax					
ZEA	comp=N,560nm,1.3s			Pmax					
ZEA	comp=Z,980nm,1.3s			Smax	Smax				
ZEA	comp=N,20µm,14.7s			Smax	Smax				
ZEA	comp=E,28µm,8.9s			MLR	MLR				
ZEA	comp=E,93µm,11.0s			MLR	MLR				
ZEA	comp=N,88µm,14.0s			MLR	MLR				
ZEA	comp=Z,130µm,12.0s			P	Pn	13 26 26.1	-0.4		
HIA	Hailar	17.70 313	P	P	13 26 28.2	+0.9			
HIA	Hailar	17.70 313	P	P	13 26 26.1	-0.4			
HIA	Hailar	17.70 313	P	P					
HIA	comp=Z,1µm,1.5s			Pmax					
TIA	Taian	17.91 269	P	P	13 26 30.5	+0.8			
TIA	comp=Z,720nm,2.4s			Pmax					
TIA	comp=Z,85µm,9.5s			Pmax					
TIA	comp=Z,282µm,11.7s			LR	LR				
TIA	comp=Z,159µm,12.0s			LR	LR				
NJ2	Nanjing	18.04 255	P	P	13 26 32.9	+1.8			
NJ2			sP	sP	13 26 41.4	+3.0			
NJ2			sP	S	13 29 57.5	+0.2			
NJ2	comp=Z,330nm,1.2s			Pmax					
NJ2	comp=Z,47µm,7.7s			Pmax					
NJ2	comp=Z,129µm,13.2s			LR	LR				
NJ2	comp=Z,204µm,11.1s			LR	LR				
NJ2	comp=Z,290µm,11.9s			LR	LR				
BJ1	Beijing	18.07 282	P	P	13 26 32.4	+1.0			
BJ1			S	S	13 29 57.0	-0.9			
BJ1	comp=Z,510nm,1.8s			Pmax					
BJ1	comp=Z,28µm,11.0s			Pmax					
BJ1	comp=Z,106µm,14.2s			LR	LR				
BJ1	comp=Z,36µm,15.4s			LR	LR				
BJ1	comp=Z,1µm,11.1s			LR	LR				
XLT	XilinHaoTe	18.33 294	eP	Pn	13 26 34.3	-0.1			
XLT			sP	sP	13 26 42.5	+0.8			
XLT			PP	Pn	13 26 52.0	+6.2			
XLT			S	Sn	13 29 58.8	+0.1			
XLT			sS	S	13 30 06.0	+2.6			
XLT			sS	SnSn	13 30 17.4	+5.1			
XLT			PcP	PcP	13 31 03.4	-2.0			
XLT	comp=Z,1µm,2.0s			Pmax					
XLT	comp=Z,53µm,6.7s			Pmax					
XLT	comp=Z,227µm,11.5s			LR	LR				
XLT	comp=Z,341µm,11.9s			LR	LR				
PEA0B	Petropavlovsk	19.18 35	P	P	13 26 42.4	-1.1			
PEA0B	Petropavlovsk	19.18 35	P	P	13 26 42.4	-1.1			
PEA0B	comp=Z,374nm,1.0s			Pmax					
PETK	Petropavlovsk	19.18 35	P	P	13 26 42.8	-0.7			
PETK	Petropavlovsk	19.18 35	P	Pn	13 26 44.0	-0.5			
PETK	comp=Z,2.0nm,0.3s,baz=214,slow=9.0,SNR=44			PcP	PcP	13 31 07.3	+0.7		
PETK	comp=Z,15nm,0.8s,baz=253,slow=8.7,SNR=4.7			LR	LR				
PETK	comp=Z,79µm,18.3s,baz=211,slow=38			LR	LR	13 34 37.0			
PETK	comp=Z,93nm,0.8s								
PETK	Petropavlovsk	19.18 35	P	P	13 26 42.8	-0.7			
HNS	Hongshan	19.54 274	P	Pn	13 26 48.4	-0.5			
HNS			S	S	13 30 22.6	-4.9			
HNS	comp=Z,810nm,1.0s			Pmax					
HNS	comp=Z,38µm,9.6s			Pmax					
HNS	comp=Z,143µm,14.3s			LR	LR				
HNS	comp=Z,292µm,14.1s			LR	LR				
PET	Petropavlovsk	19.56 36	P	P	13 26 46.5	-1.1			
PET	Petropavlovsk	19.56 36	P	Pn	13 26 50.1	+1.1			
PET	Petropavlovsk	19.56 36	eP	P	13 30 24.8	-2.9			
PET			S	S					
PET	comp=Z,22µm,9.3s			Pmax					
PET	comp=Z,520nm,1.4s			Pmax					
PET	comp=Z,33µm,10.0s			MLR	MLR				
PET	comp=Z,97µm,14.0s			MLR	MLR				
PET	comp=Z,102µm,14.0s			MLR	MLR				
PET	Petropavlovsk	19.56 36	P	Pn	13 26 50.0	+1.1			
PET	Petropavlovsk	19.56 36	P	P	13 26 44.8	-2.9			
PET	Petropavlovsk	19.56 36	P	P	13 26 44.8	-6.3			
YOJ	Yonaguni jima	19.86 229	P	P	13 26 52.4	-0.4			
YOJ	Yonaguni jima	19.86 229	P	Pn	13 26 54.5	-2.7			
TATO	Taipei	20.41 233	P	P	13 26 54.5	-2.7			
TATO	Taipei	20.41 233	IAMS_20	IAMS_20	13 35 06.3				
TATO	Taipei	20.41 233	P	P	13 26 57.0	-0.2			
TATO	Taipei	20.41 233	P	P	13 26 57.0	-0.2			
TATO	Taipei	20.41 233	S	Sn	13 30 49.9	+1.0			
TATO	Taipei	20.41 233	S	Sn	13 30 49.9	+1.0			
TATO	Taipei	20.41 233	P	Pn	13 26 54.5	-0.2			
YHNB	Yeheng	20.70 233	IAMS_20	IAMS_20	13 35 15.5				
YHNB	Yeheng	20.70 233	P	P	13 27 00.1	-0.3			
NACB	Ninganchiao	20.93 232	P	P	13 27 02.6	-0.2			
TW	Taiyuan	21.25 276	eP	P	13 27 13.0	-0.6			
TIY			PP	Pn	13 27 30.9	+5.0			
TIY			S	S	13 31 02.3	+0.5			
TIY			SS	SnSn	13 31 34.5	+1.0			
TIY	comp=Z,43nm,0.5s			Pmax					
TIY	comp=Z,14µm,7.7s			LR	LR				
TIY	comp=Z,146µm,13.7s			LR	LR				
TIY	comp=Z,175µm,15.8s			LR	LR				
TIY	comp=Z,227µm,15.1s			LR	LR				
HHC	Hu-ho-hao-te	21.54 285	eP	P	13 27 09.3	-0.1			
HHC			sP	sP	13 27 16.1	-0.7			
HHC			PP	Pn	13 27 34.0	+4.2			
HHC			S	S	13 31 03.3	-4.2			

HHC			sS	sS	13 31 10.9	-4.5			
HHC			sPmax	sPmax					
HHC	comp=Z,290nm,1.4s		Pmax	Pmax					
HHC	comp=Z,16µm,5.4s		LR	LR					
HHC	comp=Z,115µm,10.7s		LR	LR					
HHC	comp=Z,454µm,11.5s		LR	LR					
SSLB	Suanguang	21.61 232	P	P	13 27 03.5	-6.6			
SSLB	Suanguang	21.61 232	P	P	13 27 09.4	-0.7			
YULB	Yu-li	21.69 231	P	P	13 27 10.3	-0.7			
LYN	LuoYang	22.03 268	i/P	i/P	13 27 13.8	-0.7			
LYN			sP	sP	13 27 20.8	-1.1			
LYN			S	S	13 31 09.3	-7.5			
LYN			sS	SnSn	13 31 53.0	+1.0			
LYN	comp=Z,150nm,1.2s			Pmax					
LYN	comp=Z,19µm,8.6s			Pmax					
LYN	comp=Z,253µm,14.8s			LR	LR				
LYN	comp=Z,425µm,13.1s			LR	LR				
WHN	Wuhan	22.15 256	i/P	i/P	13 27 14.9	-1.0			
WHN			pP	pP	13 27 21.3	+0.5			
WHN			sP	sP	13 27 24.9	+1.7			
WHN			S	S	13 31 15.3	-3.9			
WHN	comp=Z,420nm,0.9s			Pmax					
TPUB	Ta-pu	22.17 232	P	P	13 27 12.4	-3.7			
TPUB	Ta-pu	22.17 232	P	P	13 27 13.5	-2.6			
MA2	Magadan	22.18 15	P	P	13 27 12.7	-3.2			
MA2	Magadan	22.18 15	LR	LR	13 36 26.0				
MA2	Magadan	22.18 15	LR	LR					
MA2	Magadan	22.18 15	i/P	i/P	13 27 15.0	-0.9			
MA2	Magadan	22.18 15	i/P	i/P	13 27 14.7	-1.2			
MA2	comp=Z,4µm,1.5s			Pmax					
MA2	comp=Z,108µm,15.0s			MLR	MLR				
MA2	Magadan	22.18 15	P	P	13 27 15.0	-0.9			
MA2	Magadan	22.18 15	P	P	13 27 14.7	-1.2			
TWGT	Beinan	22.25 230	IAMS_20	IAMS_20	13 37 16.1	-0.9			
TWGT	Pinlang	22.26 230	IAMS_20	IAMS_20	13 36 30.1				
QZH	Quanzhou	22.32 238	i/P	i/P	13 27 16.9	-0.8			
QZH			S	S	13 31 19.3	-3.0			
QZH	comp=Z,230nm,1.2s			Pmax					
QZH	comp=Z,17µm,9.3s			LR	LR				
QZH	comp=Z,328µm,12.7s			LR	LR				
QZH	comp=Z,307µm,13.1s			eP	P	13 27 17.4	-1.8		
CIT	Chita	22.47 315	eP	P	13 27 28.4	+0.5			
CIT			e	S	13 32 11.8				
CIT	comp=Z,5µm,2.4s			Pmax					
BTO	Baotou	22.73 284	eP	P	13 27 21.8	-0.3			
BTO			sP	sP	13 27 28.8	-0.7			
BTO			PP	Pn	13 27 51.3	+5.2			
BTO			S	S	13 31 30.8	+0.8			
BTO			sS	sS	13 31 35.5	-0.3			
BTO			SnSn	SnSn	13 32 12.8	+1.3			
BTO	comp=Z,170nm,1.2s			Pmax					
BTO	comp=Z,39µm,7.4s			Pmax					
YAK	Yakutsk	24.20 349	P	P	13 27 33.6	-2.6			
YAK			IAMB	IAMB	13 27 47.2				
YAK	comp=Z,1µm,1.1s			LR	LR	13 37 02.1			
YAK	Yakutsk	24.20 349	LR	LR					
YAK	Yakutsk	24.20 349	eP	eP	13 27 33.8	-2.4			
YAK	Yakutsk	24.20 349	eP	eP	13 28 06.3				
YAK	Yakutsk	24.20 349	eP	eP	13 31 53.0	-0.4			
YAK	Yakutsk	24.20 349	eP	eP	13 32 34.7	-1.0			
YAK	Yakutsk	24.20 349	eP	eP	13 38 42.9				
YAK	comp=Z,842nm,1.1s			Pmax					
YAK	comp=N,284nm,1.3								

18d 13h

Table with columns for station name, frequency, power, and other technical details. Includes stations like DAV Davao City (W), SGSI TengChong, and various other regional stations.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like CMAR Chiang Mai Arr, LSA Lhasa, and various other regional stations.

1046

Table with columns for station name, frequency, power, and other technical details. Includes stations like RDOG Red Dog Mine, RDOG Red Dog Mine, and various other regional stations.



1047

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes entries like P16K Nushagak River, G18K Tagagawik, H18K Honhosa River, etc.

2019 JUN

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes entries like O18K Koktuh Hills, P18K Big Mountain, CHIR Chirikof Islan, etc.

18d 13h

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes entries like AAA Alma-Ata, BBSI Bau Bau, RED Redoubt Volcan, etc.

18d 13h

Table with columns for station ID, name, elevation, and various performance metrics (pmx, pmax, etc.). Includes stations like TRF, G23K, BRZS, etc.

2019 JUN

Table with columns for station ID, name, elevation, and various performance metrics (S, S pmax, etc.). Includes stations like KSH, AAK, F24K, etc.

1048

Table with columns for station ID, name, elevation, and various performance metrics (S, S pmax, etc.). Includes stations like F25K, H25L, P23K, etc.

MENT	comp=Z,1um,1.6s	50.61	35	Iamb	Iamb	13 31 29.2
MENT	comp=Z,346nm,0.8s	50.61	35	P	P	13 31 18.8 +0.2
E27K	comp=Z,1um,1.6s	50.74	28	Iamb	Iamb	13 31 31.8
E27K	comp=Z,31um,19.0s	50.74	28	IAMS_20	IAMS_20	13 54 48.3
E27K	comp=Z,277,SNR=292	50.74	28	P	P	13 31 19.9 +0.4
E27K	comp=Z,277			S	S	13 38 37.1 +3.3
L26K	comp=Z,1um,1.7s	50.77	35	Iamb	Iamb	13 31 23.5
L26K	comp=Z,26um,19.0s	50.77	35	IAMS_20	IAMS_20	13 56 02.0
L26K	comp=Z,26um,19.0s	50.77	35	P	P	13 31 19.9 +0.2
L26K	comp=Z,260,SNR=369			S	S	13 38 38.6 +4.3
BATI	comp=Z,23um,22.0s	50.77	200	LR	LR	13 51 31.8
BATI	comp=Z,23um,22.0s,slow=35	50.77	200	P	P	13 31 20.2 0.0
HMT	comp=Z,560nm,1.5s	50.82	39	Iamb	Iamb	13 31 24.0
KAIM	comp=Z,281,SNR=17	50.82	39	P	P	13 31 21.0 +0.9
KAIM	comp=Z,281			S	S	13 38 38.2 +3.2
D27M	comp=Z,2um,2.0s	50.85	27	Iamb	Iamb	13 31 32.4
D27M	comp=Z,25um,18.0s	50.85	27	IAMS_20	IAMS_20	13 54 33.0
D27M	comp=Z,277,SNR=213	50.85	27	P	P	13 31 20.7 +0.4
D27M	comp=Z,277			S	S	13 38 38.3 +3.0
LHMI	comp=Z,50.86	50.86	240	P	P	13 31 22.3 +1.3
G27K	comp=Z,50.90	50.90	30	P	P	13 31 21.2 +0.5
G27K	comp=Z,278,SNR=252			S	S	13 38 40.0 +4.0
PPBI	comp=Z,50.90	50.90	225	P	P	13 31 25.1 +3.9
KK31	comp=Z,51.01	51.01	298	P	P	13 31 19.6 -2.2
KKAR	comp=Z,51.01	51.01	298	P	P	13 31 19.3 -2.5
KKAR	comp=Z,51.01	51.01	298	P	P	13 31 19.3 -2.5
BNDA	comp=Z,51.01	51.01	273	eP	eP	13 31 19.2 -2.2
BNDA	comp=Z,642nm,1.1s	51.03	36	Iamb	Iamb	13 31 33.2
M26K	comp=Z,651nm,1.3s	51.03	36	P	P	13 31 22.0 +0.2
M26K	comp=Z,280,SNR=129	51.03	36	P	P	13 31 21.2 +0.5
M26K	comp=Z,280			S	S	13 38 41.4 +3.4
H27K	comp=Z,51.03	51.03	31	Iamb	Iamb	13 31 28.2
H27K	comp=Z,51.03	51.03	31	P	P	13 31 22.5 +0.8
H27K	comp=Z,279,SNR=357			S	S	13 38 42.2 +4.3
VRDI	comp=Z,51.04	51.04	37	Iamb	Iamb	13 31 32.8
VRDI	comp=Z,51.04	51.04	37	P	P	13 31 23.6 +1.2
TSI	comp=Z,51.05	51.05	237	P	P	13 31 23.6 +1.2
BERG	comp=Z,51.08	51.08	38	Iamb	Iamb	13 31 27.8
I27K	comp=Z,51.09	51.09	32	P	P	13 31 23.2 +1.0
I27K	comp=Z,279,SNR=171			S	S	13 38 43.5 +4.7
ALEG	comp=Z,51.11	51.11	153	P	P	13 31 24.3 +1.5
K27K	comp=Z,51.16	51.16	34	P	P	13 31 22.4 -0.3
K27K	comp=Z,280			S	S	13 38 39.8 +0.2
SAVO	comp=Z,51.17	51.17	154	P	P	13 31 25.2 +2.0
MCARA	comp=Z,51.21	51.21	37	Iamb	Iamb	13 31 34.9
MCARA	comp=Z,51.21	51.21	37	P	P	13 31 23.9 +0.9
MCARA	comp=Z,281,SNR=140			S	S	13 38 42.8 +2.4
KMMI	comp=Z,51.25	51.25	213	P	P	13 31 26.1 +2.3
WSI	comp=Z,51.26	51.26	205	P	P	13 31 22.7 -1.2
CRQM	comp=Z,51.28	51.28	38	Iamb	Iamb	13 31 29.4
CRQE	comp=Z,51.30	51.30	38	P	P	13 31 24.7 +0.8
CRQE	comp=Z,282,SNR=100			S	S	13 38 44.3 +2.3
BGLC	comp=Z,51.34	51.34	39	P	P	13 31 24.5 +0.6
BGLC	comp=Z,282			S	S	13 38 46.2 +4.1
PSI	comp=Z,51.34	51.34	236	LR	LR	13 54 16.2
PSI	comp=Z,23um,18.5s,slow=37	51.34	236	P	P	13 31 25.8 +1.1
PLAI	comp=Z,51.35	51.35	208	P	P	13 31 24.1 -0.5
PLAI	comp=Z,51.35	51.35	208	P	P	13 31 23.5 -1.1
RPSI	comp=Z,51.42	51.42	236	IAMS_20	IAMS_20	13 56 07.7
TGL	comp=Z,51.43	51.43	38	Iamb	Iamb	13 31 30.3
TGL	comp=Z,2um,1.8s	51.43	38	IAMS_20	IAMS_20	13 53 24.7
L27K	comp=Z,51.44	51.44	35	Iamb	Iamb	13 31 28.7
L27K	comp=Z,51.44	51.44	35	P	P	13 31 25.6 +0.7
L27K	comp=Z,281,SNR=753			S	S	13 38 47.8 +4.2
E28M	comp=Z,51.45	51.45	28	IAMS_20	IAMS_20	13 55 03.8
E28M	comp=Z,39um,20.0s	51.45	28	P	P	13 31 25.1 +0.4
E28M	comp=Z,278,SNR=288			S	S	13 38 46.5 +3.1
KDU	comp=Z,51.46	51.46	189	P	P	13 31 24.4 -0.9
BCAR	comp=Z,51.46	51.46	35	P	P	13 31 24.6 -0.4
F28M	comp=Z,51.47	51.47	29	Iamb	Iamb	13 31 31.0
F28M	comp=Z,498nm,1.2s	51.47	29	P	P	13 31 25.4 +0.4
F28M	comp=Z,279,SNR=462			S	S	13 38 49.2 +5.3
HNR	comp=Z,51.48	51.48	154	IAMS_20	IAMS_20	13 54 28.1
HNR	comp=Z,51.48	51.48	154	P	P	13 31 28.2 +2.7
HNR	comp=Z,51.48	51.48	154	P	P	13 31 24.9 -0.6
HNR	comp=Z,51.48	51.48	154	P	P	13 31 24.9 -0.6
BRLS	comp=Z,51.50	51.50	299	eP	eP	13 31 26.2 +0.7
BRLS	comp=Z,691nm,2.7s	51.50	299	eP	eP	13 31 26.3 +0.7
BRLS	comp=Z,691nm,2.7s	51.50	299	P	P	13 31 26.3 +0.7
WBSI	comp=Z,51.54	51.54	206	P	P	13 31 24.8 -1.2
M27K	comp=Z,51.55	51.55	36	Iamb	Iamb	13 31 31.4
M27K	comp=Z,446nm,0.8s	51.55	36	IAMS_20	IAMS_20	13 54 22.9
M27K	comp=Z,25um,20.0s	51.55	36	P	P	13 31 26.1 +0.3
M27K	comp=Z,281,SNR=600			S	S	13 38 50.3 +4.9
KKR	comp=Z,51.60	51.60	280	eP	eP	13 31 24.6 -1.8
TWSI	comp=Z,51.60	51.60	209	P	P	13 31 25.9 -0.5
D28M	comp=Z,51.62	51.62	27	P	P	13 31 27.4 +1.4
D28M	comp=Z,278,SNR=5.4			S	S	13 38 50.3 +4.5
SRBI	comp=Z,51.66	51.66	211	P	P	13 31 27.7 +0.8
IUG	comp=Z,51.67	51.67	297	eP	eP	13 31 26.1 -0.8
IUG	comp=Z,2um,2.2s	51.67	297	eP	eP	13 31 26.1 -0.8
IUG	comp=Z,1um,2.2s	51.67	297	eP	eP	13 31 26.1 -0.8
BASI	comp=Z,51.69	51.69	204	P	P	13 31 27.6 +0.5
BISR	comp=Z,51.77	51.77	279	eP	eP	13 31 25.8 -1.8
BISR	comp=Z,2um,2.0s	51.77	279	eP	eP	13 31 30.3

GRJI	comp=Z,490nm,0.5s	51.78	215	P	P	13 31 30.0 +2.2
GRJI	comp=Z,35um,comp=Z,20um,comp=Z,555nm,1.6s	51.79	190	P	P	13 31 26.5 -1.3
BSNI	comp=Z,51.80	51.80	242	P	P	13 31 31.2 +3.2
I28M	comp=Z,51.81	51.81	32	Iamb	Iamb	13 31 33.4
I28M	comp=Z,34um,20.0s	51.81	32	P	P	13 53 23.6
I28M	comp=Z,280,SNR=680			S	S	13 38 52.6 +3.8
RAGD	comp=Z,51.88	51.88	265	eP	eP	13 31 26.3 -2.3
RAGD	comp=Z,462nm,1.1s	51.88	265	Iamb	Iamb	13 31 38.7
NDI	comp=Z,2.980nm,2.0s	51.89	279	eP	eP	13 31 27.3 -1.3
NDI	comp=Z,2.980nm,2.0s	51.89	279	Iamb	Iamb	13 31 35.1
BKNI	comp=Z,51.90	51.90	232	P	P	13 31 28.0 -0.7
BKNI	comp=Z,51.90	51.90	232	IAMS_20	IAMS_20	13 55 47.3
BKNI	comp=Z,229nm,18.0s	51.90	232	P	P	13 31 30.3 +1.5
BKNI	comp=Z,229nm,18.0s	51.90	232	P	P	13 31 30.2 +1.5
CHM	comp=Z,2um,2.7s	51.91	298	eP	eP	13 31 27.9 -0.8
CHM	comp=Z,2um,2.7s	51.91	298	eP	eP	13 31 27.9 -0.8
CHM	comp=Z,31um,12.0s	51.91	298	eP	eP	13 31 27.9 -0.8
CHM	comp=Z,31um,12.0s	51.91	298	eP	eP	13 31 27.9 -0.8
BARN	comp=Z,51.92	51.92	37	Iamb	Iamb	13 31 33.5
MSLI	comp=Z,51.93	51.93	240	P	P	13 31 29.0 0.0
NPLP	comp=Z,51.94	51.94	279	eP	eP	13 31 27.8 -1.2
GRNC	comp=Z,51.95	51.95	38	IAMS_20	IAMS_20	13 53 40.4
MESA	comp=Z,51.98	51.98	38	P	P	13 31 29.4 +0.4
MESA	comp=Z,283,SNR=35			S	S	13 38 55.1 +3.7
TBJI	comp=Z,51.98	51.98	216	P	P	13 31 31.4 +2.1
TBJI	comp=Z,31um,comp=Z,535nm,1.7s	51.98	216	P	P	13 31 29.8 +0.8
BVCY	comp=Z,52.01	52.01	36	P	P	13 38 54.9 +3.5
BVCY	comp=Z,282,SNR=622			S	S	13 38 54.9 +3.5
YAH	comp=Z,52.04	52.04	38	Iamb	Iamb	13 31 40.5
E29M	comp=Z,52.08	52.08	28	IAMS_20	IAMS_20	13 55 22.5
E29M	comp=Z,27um,19.0s	52.08	28	P	P	13 38 54.9 +0.5
E29M	comp=Z,280,SNR=626			S	S	13 31 24.1 +2.0
CTG	comp=Z,52.10	52.10	37	P	P	13 31 29.7 -0.1
CTG	comp=Z,283,SNR=145			S	S	13 38 56.4 +3.5
SONA	comp=Z,52.19	52.19	278	eP	eP	13 31 29.1 -1.8
SONA	comp=Z,52.19	52.19	278	Iamb	Iamb	13 31 41.0
DNP	comp=Z,52.20	52.20	211	P	P	13 31 33.5 +2.6
PMBI	comp=Z,52.22	52.22	226	P	P	13 31 33.9 +2.3
PMBI	comp=Z,52.22	52.22	226	P	P	13 31 35.0 +3.4
H29M	comp=Z,52.30	52.30	31	Iamb	Iamb	13 31 36.4
H29M	comp=Z,2um,2.0s	52.30	31	IAMS_20	IAMS_20	13 55 45.4
H29M	comp=Z,30um,19.0s	52.30	31	P	P	13 31 32.1 +1.0
H29M	comp=Z,281,SNR=242			S	S	13 38 59.9 +4.7
G29M	comp=Z,52.30	52.30	30	Iamb	Iamb	13 31 42.9
G29M	comp=Z,762nm,1.1s	52.30	30	P	P	13 31 31.8 +0.1
G29M	comp=Z,281,SNR=475			S	S	13 31 39.0 +7.5
DAWY	comp=Z,52.31	52.31	33	IAMS_20	IAMS_20	13 56 04.8
DAWY	comp=Z,27um,18.0s	52.31	33	P	P	13 31 31.3 0.0
DAWY	comp=Z,282,SNR=139			S	S	13 38 58.3 +2.8
TABL	comp=Z,52.31	52.31	38	IAMS_20	IAMS_20	13 52 24.0
YUK3	comp=Z,52.33	52.33	36	P	P	13 31 31.8 +0.1
YUK3	comp=Z,283,SNR=273			S	S	13 38 59.7 +3.5
COEN	comp=Z,52.42	52.42	175	Iamb	Iamb	13 31 37.1
COEN	comp=Z,52.42	52.42	175	IAMS_20	IAMS_20	13 51 23.0
COEN	comp=Z,33um,21.0s	52.42	175	P	P	13 31 32.5 0.0
MNSI	comp=Z,52.45	52.45	234	P	P	13 31 32.2 +0.4
JAGI	comp=Z,52.45	52.45	212	P	P	13 31 32.8 0.0
JAGI	comp=Z,52.45	52.45	212	P	P	13 31 33.3 +0.5
I29M	comp=Z,52.50	52.50	32	Iamb	Iamb	13 31 43.7
I29M	comp=Z,784nm,1.2s	52.50	32	IAMS_20	IAMS_20	13 53 54.7
I29M	comp=Z,41um,21.0s	52.50	32	P	P	13 31 33.0 +0.4
I29M	comp=Z,282,SNR=234			S	S	13 39 01.4 +3.4
GMJI	comp=Z,52.57	52.57	213	P	P	13 31 33.5 -0.1
GMJI	comp=Z,8um,comp=Z,164nm,1.2s	52.57	213	Iamb	Iamb	13 31 43.0
GARJ	comp=Z,52.64	52.64	294	Iamb	Iamb	13 31 36.2 +2.0
NGJI	comp=Z,52.65	52.65	216	P	P	13 31 36.2 +2.0
NIL	comp=Z,52.68	52.68	286	IAMS_20	IAMS_20	13 53 56.7
NIL	comp=Z,26um,21.0s	52.68	286	P	P	13 31 34.0 -0.5
NIL	comp=Z,26um,21.0s	52.68	286	P	P	13 31 33.9 -0.5
NIL	comp=Z,26um,21.0s	52.68	286	P	P	13 31 34.0 -0.5
NIL	comp=Z,408nm,1.3s			MLR	MLR	
O28M	comp=Z,					

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N31M	Braeburn, Yuko	54.56	36	Iamb	Iamb	13 31 59.5
N31M	Braeburn, Yuko	54.56	36	P	P	13 31 48.6 +0.8
N31M				S	S	13 39 31.0 +4.8
O30N	Mendenhall	54.63	37	P	P	13 31 49.0 +0.6
O30N				S	S	13 39 31.0 +3.9
CGJ	Cibinong	54.85	222	P	P	13 31 51.6 +1.2
LUES	Luesalemba Tem	54.89	148	P	P	13 31 52.8 +2.2
PLBC	Pleasant Camp	54.89	38	P	P	13 31 51.2 +1.0
PLBC				S	S	13 39 35.8 +5.3
M31M	Drury Creek, Y	54.98	35	IAMS_20	IAMS_20	13 57 39.5
M31M	Drury Creek, Y	54.98	35	P	P	13 31 52.0 +1.1
M31M				S	S	13 39 34.8 +3.0
WHY	Whitehorse	55.23	37	Iamb	Iamb	13 31 58.1
WHY				IAMS_20	IAMS_20	13 56 43.1
WHY				S	S	13 31 53.1 +0.3
A36M	Sachs Harbour	55.36	22	P	P	13 31 54.3 +0.9
A36M				S	S	13 39 38.7 +2.2
KBU	Kabul Universi	55.37	289	P	P	13 31 52.9 -1.4
SKAG	Skagway	55.39	38	IAMS_20	IAMS_20	13 56 32.5
SKAG				P	P	13 31 55.9 +2.1
SKAG				P	P	13 31 55.1 +1.3
SKAG				S	S	13 39 40.2 +3.1
KBL	Kabul	55.43	289	P	P	13 31 53.2 -1.5
KBL				Iamb	Iamb	13 32 07.8
KBL				P	P	13 31 52.7 -2.0
KBL				P	P	13 31 52.7 -2.0
KBL				S	S	13 39 38.2 -0.6
KBL				S	S	13 39 38.2 -0.6
KBL				S	S	13 31 53.2 -1.5
S31K	Pelican	55.43	40	Iamb	Iamb	13 32 00.1
S31K				P	P	13 31 54.9 +0.8
S31K				S	S	13 39 40.9 +3.3
FARO	Faro, Yukon	55.44	35	Iamb	Iamb	13 31 57.9
FARO				IAMS_20	IAMS_20	13 58 01.6
FARO				P	P	13 31 55.4 +1.2
FARO				S	S	13 39 41.4 +3.5
R31K	City Hall, Gus	55.53	39	P	P	13 31 56.0 +1.3
R31K				S	S	13 39 42.5 +3.5
AB31	Akbulak array	55.74	309	Iamb	Iamb	13 32 06.1
AB31				P	P	13 31 54.3 -2.2
ABKAR	Akbulak array	55.74	309	P	P	13 31 54.0 -2.5
ABKAR				Iamb	Iamb	13 32 06.1
KIP	Kipapa	55.77	89	P	P	13 31 57.1 +0.1
KIP				P	P	13 31 59.6 +2.6
KIP				P	P	13 31 59.7 +2.7
KIP				P	P	13 31 57.1 +0.1
N32M	Quiet Lake	55.91	36	IAMS_20	IAMS_20	13 57 25.9
N32M				P	P	13 31 58.5 +0.9
N32M				S	S	13 39 48.4 +4.3
BESE	Bessie Mountai	55.91	39	Iamb	Iamb	13 32 03.7
BESE				IAMS_20	IAMS_20	13 58 38.2
P32M	Atlin	56.13	38	P	P	13 31 59.5 +0.4
P32M				S	S	13 39 50.9 +3.7
R32K	Eaglecrest	56.18	39	IAMS_20	IAMS_20	13 58 38.4
R32K				P	P	13 31 59.6 +0.1
R32K				S	S	13 39 54.1 +6.4
SIT	Sitka	56.19	41	P	P	13 32 02.4 +2.9
SIT				P	P	13 32 00.7 +1.2
SIT				S	S	13 39 53.0 +5.1
MMPY	Sheldon Lake,	56.23	34	Iamb	Iamb	13 32 05.2
MMPY				IAMS_20	IAMS_20	13 58 50.5
MMPY				P	P	13 32 00.7 +0.8
MMPY				S	S	13 39 52.4 +3.9
JIS	Juneau Island	56.25	39	P	P	13 32 01.8 +1.9
P33M	Teslin, Yukon	56.34	37	Iamb	Iamb	13 32 06.8
P33M				IAMS_20	IAMS_20	13 58 58.6
P33M				P	P	13 32 01.2 +0.5
P33M				S	S	13 39 53.6 +3.6
S32K	Killinoe	56.43	40	P	P	13 32 01.8 +0.6
S32K				S	S	13 39 55.5 +4.5
AKTO	Aktyubinsk	56.47	311	LR	LR	13 59 24.6
AKTO				P	P	13 32 00.3 -1.4
AKTO				P	P	13 32 01.4 -1.8
C36M	Paulatuk	56.64	25	Iamb	Iamb	13 32 06.8
C36M				P	P	13 32 03.3 +0.8
C36M				S	S	13 39 54.8 +1.4
MTSU	Mount Surprise	56.64	174	P	P	13 32 03.9 +0.8
HYB	Hyderabad	56.74	266	eP	eP	13 32 03.0 +1.1
HYB				ePP	ePP	13 32 08.0 -1.7
HYB				eScP	eScP	13 36 57.7 -0.9
Q32M	Nakina River	57.04	38	Iamb	Iamb	13 32 12.6
Q32M				P	P	13 32 06.4 +0.5
Q32M				S	S	13 40 04.8 +5.2
T33K	Petersburg	57.49	41	P	P	13 32 09.8 +1.0
T33K				S	S	13 40 10.0 +5.0
R33M	Jennings River	57.51	37	Iamb	Iamb	13 32 14.7
R33M				P	P	13 32 09.9 +0.8
R33M				S	S	13 40 10.1 +4.6
U33K	Whale Pass	57.67	41	Iamb	Iamb	13 32 16.4
U33K				P	P	13 32 11.3 +1.3

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U33K		baz=292	S	S	13 40 12.1 +4.8	
FITZ	Fitzroy Crossi	57.89	196	LR	LR	13 56 13.0
CRAG	Craig	57.91	42	P	P	13 32 14.2 +2.5
CRAG				P	P	13 32 12.9 +1.1
CRAG				S	S	13 40 15.5 +4.9
TGNT	Hyland Airport	57.94	34	P	P	13 32 12.7 +0.8
TGNT				S	S	13 40 15.2 +4.2
WRAK	Wraeell Islan	57.95	41	P	P	13 32 13.1 +1.1
WRAK				S	S	13 40 13.7 +2.6
S34M	Telegraph Cree	57.99	39	P	P	13 32 13.3 +1.0
S34M				S	S	13 40 16.4 +4.8
KIRV	Kirov	58.05	322	LR	LR	13 58 54.7
XMI	Christmas Isla	58.15	220	P	P	13 32 14.4 +0.8
HOPEN	Hopen	58.12	345	eP	eP	13 32 13.1 +0.1
HOPEN				IvMB_BB	IvMB_BB	13 32 23.0
HOPEN				eS	eS	13 40 15.2 +2.3
HOPEN				IvMS_BB	IvMS_BB	14 00 01.9
XMIS	Christos Isla	58.15	220	P	P	13 32 15.7 +1.8
WTLY	Watson Lake, Y	58.25	36	Iamb	Iamb	13 32 19.8
WTLY				IAMS_20	IAMS_20	13 59 46.0
WTLY				P	P	13 32 15.3 +1.2
WTLY				S	S	13 40 14.5 -0.6
WBO	Warramunga Arr	58.28	186	Iamb	Iamb	13 32 18.6
WRAB	Tennant Cree	58.44	186	P	P	13 32 14.3 -1.5
WRAB				Iamb	Iamb	13 32 23.9
WRAB				IAMS_20	IAMS_20	13 55 53.7
WRAB				Pmax	Pmax	13 32 13.9 -1.9
WRA	Warramunga Arr	58.45	186	P	P	13 32 13.0 -2.9
WRA				P	P	13 32 14.2 -1.7
WRA				S	S	13 40 24.4 +6.1
WRA				LR	LR	13 56 14.9
WRA				P	P	14 01 56.1 +9.3
WRA				P4Kpbc	P4Kpbc	14 09 24.4
WRB	Warramunga Arr	58.45	185	Iamb	Iamb	13 32 19.9
POHA	Pohakuloa	58.62	89	P	P	13 32 16.7 -0.8
POHA				P	P	13 32 20.2 +2.7
SPA0	Spitsbergen Ar	58.66	348	eP	eP	13 32 17.4 +0.7
SPA0				IvMB_BB	IvMB_BB	13 32 26.8
SPA0				eS	eS	13 40 18.9 -1.1
SPA0				IvMS_BB	IvMS_BB	14 01 11.1
SPB2	Spitsbergen Ar	58.66	348	P	P	13 32 16.5 -0.2
SPB2				Iamb	Iamb	13 32 27.7
SPB2				P	P	13 32 16.3 -0.5
SPB2				S	S	13 59 01.2
SPB2				Pmax	Pmax	13 32 16.2 -0.5
CTAO	Charters Tower	58.75	173	P	P	13 32 16.9 -1.0
CTAO				P	P	13 32 19.4 +1.5
CTAO				P	P	13 32 16.9 -1.0
V35K	Ketchikan	58.76	42	P	P	13 32 18.4 +0.8
V35K				S	S	13 40 21.8 +0.2
T35M	Bob Quinn	58.80	40	Iamb	Iamb	13 32 24.8
T35M				P	P	13 32 18.8 +0.8
T35M				S	S	13 40 22.4 +0.2
KBS	Kingsbay	58.83	350	P	P	13 32 16.1 -1.7
KBS				Iamb	Iamb	13 32 29.2
KBS				IAMS_20	IAMS_20	13 55 39.9
KBS				Pmax	Pmax	13 32 18.9 +1.1
KBS				MLR	MLR	13 32 18.9 +1.1
KBS				P	P	13 32 18.9 +1.1
KBS				IvMB_BB	IvMB_BB	13 32 28.2
KBS				eS	eS	13 40 23.2 +1.3
KBS				eSS	eSS	13 41 52.4
KBS				IvMS_BB	IvMS_BB	13 44 20.0 +5.5
KBS				P	P	14 01 49.2
KBS				P	P	13 32 18.5 +0.7
KHU	Kahuku	58.84	89	P	P	13 32 17.8 -1.2
KHU				P	P	13 32 17.8 -1.2
KHU				Pmax	Pmax	13 32 17.8 -1.2
EUNU	Eureka	58.84	8	Iamb	Iamb	13 32 28.0
QIS	Mount Isa	58.87	180	P	P	13 32 18.6 -0.2
RSD	Rainhead	58.98	89	P	P	13 32 18.2 -1.7
PUH	Puauhi	59.08	89	P	P	13 32 19.1 -1.4
DIB	Dawson Inlet,	59.16	44	Iamb	Iamb	13 32 24.0
H02S1	DAWSON INLET T	59.16	44	P	P	13 32 22.6 +2.1
WRGLY	Wrigley	59.30	32	IAMS_20	IAMS_20	13 59 10.5
WRGLY				P	P	13 32 22.9 +1.6
WRGLY				S	S	13 40 26.7 -1.7
U35K	Hyder	59.39	41	P	P	13 32 22.8 +1.1
U35K				S	S	13 40 33.7 +4.5
NOR	Nord	59.37	356	iP	iP	13 32 21.5 0.0
NOR				Iamb	Iamb	13 32 25.3
FUNA	Funafuti	59.71	133	IAMS_20	IAMS_20	13 55 52.1
SANVU	Saraoutou	59.73	149	P	P	13 32 23.6 -1.2
SANVU				Iamb	Iamb	13 32 33.6
SANVU				P	P	13 32 25.5 +0.7
LIRD	Liard River Hi	59.78	36	P	P	13 32 25.7 +0.9
RUBB	Prince Rupert	59.89	43	Iamb	Iamb	13 32 36.7
BEAVL	Fort Liard	59.92	35	P	P	13 32 27.2 +1.5
BEAVL				S	S	13 40 44.1 +3.4
LVZ	Lozero	60.03	335	P	P	13 32 25.5 -0.8
LVZ						

JOF	Joensuu	63.83 331	eP	P	13 32 52.3 +0.4
NEEM	North Greenlan	64.02 3	iP	I	13 32 53.4 +0.1
NEEM			I	I	13 32 57.2
DAG	comp=Z,298nm,0.8s				
DAG	Danmarks Havn	64.05 355	P	P	13 32 53.1 0.0
DAG	Danmarks Havn	64.05 355	P	P	13 32 51.7 -1.4
DAG	Danmarks Havn	64.05 355	iP	I	13 32 53.4 +0.3
DAG			I	I	13 32 54.9
INH	comp=Z,121nm,0.7s				
COCO	Isangel	64.26 149	P	P	13 32 56.1 +0.9
COCO	West Island	64.34 227	P	P	13 32 53.5 -2.3
COCO	West Island	64.34 227	I	I	14 02 00.2
COCO	comp=Z,15um,18.0s				
COCO	West Island	64.34 227	P	P	13 32 56.9 +1.1
COCO	West Island	64.34 227	P	P	13 32 56.9 +1.1
COCO	West Island	64.34 227	P	P	13 32 53.5 -2.3
COCO			pmax	pmax	
COCO	comp=Z,1um,1.6s				
COCO			MLR	MLR	
OUL	Oulu	64.51 335	P	P	13 32 56.3 0.0
CBB	Campbell River	64.56 45	I	I	13 32 03.3
EIDS	comp=Z,219nm,1.0s				
EIDS	Eidsvold	64.58 168	P	P	13 32 55.8 -1.3
EIDS			I	I	13 32 01.6
EIDS	comp=Z,279nm,1.0s				
EIDS	Eidsvold	64.58 168	P	P	13 32 56.9 -0.2
QLP	Quilpie	65.02 175	P	P	13 32 59.0 -1.0
MOS	Moscow	65.06 322	eP	P	13 32 59.2 -0.8
MOS			e	e	13 36 54.7
MOS			ePPP	PPP	13 41 40.7 -0.5
MOS			eSS	SS	13 45 50.5 -2.1
MOS			pmax	pmax	
MOS	comp=Z,782nm,1.3s				
MOS			pmax	pmax	
MOS	comp=E,223nm,1.2s				
MOS			pmax	pmax	
MOS	comp=N,297nm,1.3s				
MOS			pmax	pmax	
MOS	comp=Z,3um,1.8s				
MOS			pmax	pmax	
MOS	comp=E,4um,4.0s				
MOS			smax	smax	
MOS	comp=N,2um,3.1s				
MOS			smax	smax	
MOS	comp=E,9um,4.2s				
MOS			smax	smax	
MOS	comp=N,5um,3.9s				
MOS			MLR	MLR	
MOS	comp=E,36um,14.0s				
MOS			MLR	MLR	
RMQ	Roma	65.35 171	P	P	13 33 04.0 +1.8
VRH	Novokhoporsky	65.37 317	eP	P	13 33 00.1 -2.0
VRH			eS	S	13 41 41.0 -4.2
VRH			pmax	pmax	
VRH	comp=Z,280nm,0.6s				
VRH			smax	smax	
VRH	comp=E,11um,11.0s				
VRH			MLR	MLR	
GIRL	comp=Z,112um,14.0s				
DZM	Giralia	65.38 206	P	P	13 33 04.3 +1.9
DZM	Mont Dzumac	65.46 152	P	P	13 33 02.4 -0.7
DZM			I	I	13 33 13.2
DZM	comp=Z,363nm,1.0s				
DZM	Mont Dzumac	65.46 152	eP	P	13 33 03.0 -0.1
DZM	comp=Z,804nm,1.1s				
DZM	Mont Dzumac	65.46 152	ePP	PP	13 35 24.6 -2.9
DZM	comp=Z,2um,23.4s				
DZM			eS	S	13 41 45.9 -1.1
DZM	comp=Z,21um,30.6s				
DZM			eSS	SS	13 45 58.0 -3.1
DZM	comp=Z,17um,26.0s				
DZM			eLQ	LQ	13 49 46.8
DZM	comp=Z,47um,27.9s				
DZM			eLR	LR	13 52 33.0
DZM	comp=Z,34um,25.6s				
DZM	Mont Dzumac	65.46 152	P	P	13 33 03.4 +0.3
DZM	comp=Z,105nm,0.9s,baz=35,slow=6.9,SNR=37				
DZM			LR	LR	14 02 58.2
DZM	comp=Z,15um,18.5s,baz=348,slow=37				
DZM			LR	LR	
DZM	Mont Dzumac	65.46 152	P	P	13 33 03.6 +0.5
YATNC	Miamie plateau	65.61 152	P	P	13 33 06.2 +2.3
ONTNC	Ouen Toro	65.68 153	I	I	13 33 03.0 -1.3
ONTNC			I	I	13 33 08.1
ONTNC	comp=Z,801nm,1.5s				
ONTNC	Ouen Toro	65.68 153	P	P	13 33 04.6 +0.3
STEI	Steigen	65.86 340	eP	P	13 33 05.4 +0.5
STEI			I	I	13 33 14.4
STEI	comp=Z,4um,2.1s				
STEI			eS	S	13 41 51.5 +0.9
STEI			eSS	SS	13 46 10.7 +6.2
STEI			IVMs_BB	IVMs_BB	14 07 19.8
CLRS	comp=Z,26um,13.8s				
CLRS	Cowichan Lake	65.87 46	I	I	13 33 10.8
CLRS			I	I	14 03 05.2
OBN	Obninsk	65.90 322	P	P	13 33 03.0 -2.4
OBN			LR	LR	14 03 05.2
OBN	comp=Z,87um,18.1s,baz=8.0,slow=37				
OBN	Obninsk	65.90 322	iP	P	13 33 06.1 +0.7
OBN	Obninsk	65.90 322	iP	P	13 33 05.7 +0.2
OBN			i+PP	PP	13 33 09.4 -1.8
OBN			i+SP	SP	13 33 12.6 -0.7
OBN			e	e	13 33 34.7
OBN			e	e	13 35 30.3
OBN			iS	S	13 41 51.0 -0.6
OBN			ePS	PS	13 42 10.6 -1.1
OBN			ePPS	PPS	13 42 18.5
OBN			i	i	13 42 25.3
OBN			iSS	SS	13 46 02.1 -3.6
OBN			pmax	pmax	
OBN	comp=Z,845nm,1.3s				
OBN			MLR	MLR	
OBN	comp=Z,44um,15.0s				
OBN	Obninsk	65.90 322	P	P	13 33 05.0 -0.5
OBN	comp=Z,12um,comp=Z,479nm,1.4s				
NGCH	Negor - Chabah	65.92 284	P	P	13 33 09.0 +3.0
NGCH			S	S	13 33 09.6 +5.0
FUTU	Fuatogata	65.92 134	P	P	13 33 08.7 +2.7
OUENC	Ouen Island, N	65.92 152	P	P	13 33 08.0 +2.1
POIN	Pond Inlet	65.98 11	P	P	13 33 03.4 -2.3
POIN			I	I	13 33 15.2
PUL	comp=Z,615nm,1.3s				
PUL	Pulkovo	66.03 328	iP	P	13 33 07.2 +1.0
PUL			pmax	pmax	
PUL	comp=Z,603nm,1.1s				
PUL			MLR	MLR	
LPSR	comp=Z,47um,16.0s				
LPSR	Galich ya Gora	66.10 319	eP	P	13 33 07.7 +0.9
LPSR			eS	S	13 41 57.1 +3.1
LPSR			pmax	pmax	
LPSR	comp=Z,330nm,0.7s				
LPSR			smax	smax	
LPSR	comp=E,2um,8.4s				
LPSR			MLR	MLR	
LOF	comp=Z,173um,15.0s				
LOF	Lofoten	66.16 341	eP	P	13 33 06.8 -0.1
LOF			I	I	13 33 14.6
LOF	comp=Z,5um,5.8s				
LOF			eS	S	13 41 56.5 +2.1
LOF			eSS	SS	13 46 07.6 -1.6
LOF			IVMs_BB	IVMs_BB	14 06 06.0
FAUS	comp=Z,32um,15.0s				
FAUS	Fauske	66.23 340	eP	P	13 33 06.2 -1.2
FAUS			I	I	13 33 15.6
FAUS	comp=Z,7um,4.8s				
FAUS			eS	S	13 41 56.4 +1.1
FAUS			IVMs_BB	IVMs_BB	14 05 32.1
MAK	comp=Z,35um,16.3s				
MAK	Makhachkala	66.27 307	c/P	P	13 33 04.0 -4.1
MAK			eS	S	13 41 51.1 -5.4
MAK			eSS	SS	13 46 11.8 -0.3
MAK			pmax	pmax	
MAK	comp=Z,392nm,1.1s				
MAK			MLR	MLR	
MAK	comp=Z,9um,5.0s				
MAK			MLR	MLR	
MAK	comp=E,63um,17.0s				
MAK			MLR	MLR	
MAK	comp=Z,85um,14.0s				
MAK			MLR	MLR	
MAK	comp=N,101um,14.0s				

PINN	Pines Island,	66.32 152	P	P	13 33 07.1 -1.4
PINN			I	I	13 33 13.8
PINN	comp=Z,284nm,1.2s				
PINN	Pines Island,	66.32 152	P	P	13 33 09.5 +1.0
DCITI	Dogotuki	66.39 137	eP	P	13 33 11.2 +2.2
VORR	Voronzh	66.45 318	eP	P	13 33 07.6 -1.3
VORR			eS	S	13 41 53.3 -5.1
VORR			pmax	pmax	
VORR	comp=Z,560nm,1.2s				
VORR			smax	smax	
VORR	comp=E,6um,9.3s				
VORR			MLR	MLR	
DBG	Daneborg	66.53 354	iP	P	13 33 08.3 -0.9
DBG			I	I	13 33 11.7
KULLO	Kullorsuaq	66.53 5	iP	P	13 33 09.3 +0.1
KULLO			I	I	13 33 11.0
KEF	comp=Z,176nm,0.7s				
FINES	FINES Array B	66.68 332	eP	P	13 33 10.5 +0.1
FINES	FINES Array B	66.69 331	P	P	13 33 08.3 -2.1
FINES	FINES Array B	66.69 331	P	P	13 33 08.7 -1.7
FINES	comp=Z,67nm,0.6s,baz=64,slow=8.7,SNR=131				
FINES			PKPPKP	PKPPKP	14 01 45.0 -2.6
FINES	comp=Z,3.0nm,0.9s,baz=131,slow=10,SNR=39.9				
FINES			LR	LR	14 03 55.7
MSVF	comp=Z,30um,19.2s,baz=54,slow=38				
MSVF	Nonsavu	66.71 140	LR	LR	14 00 12.9
MSVF	comp=Z,15um,19.0s,baz=344,slow=34				
MSVF	Nonsavu	66.71 140	P	P	13 33 13.5 +2.4
MSVF	Nonsavu	66.71 140	c/P	P	13 33 13.2 +2.1
MSVF			pmax	pmax	
VSR	comp=Z,377nm,1.3s				
VSR	Storozhevoje	66.72 318	eP	S	13 33 09.1 -1.7
VSR			eS	S	13 42 00.0 -1.7
VSR			pmax	pmax	
VSR	comp=Z,490nm,0.9s				
VSR			smax	smax	
VSR	comp=E,10um,11.6s				
VSR			MLR	MLR	
VORD	comp=Z,152um,15.0s				
VORD	Divnogorie	66.79 317	eP	P	13 33 09.6 -1.7
VORD			eS	S	13 41 57.1 -5.4
VORD			pmax	pmax	
VORD	comp=Z,640nm,1.4s				
VORD			smax	smax	
VORD	comp=E,14um,12.6s				
VORD			MLR	MLR	
AKT	comp=Z,57um,13.0s				
AKT	Akhty	66.90 305	eP	P	13 33 10.9 -1.4
AKT			e	e	13 33 40.0
AKT			ePPP	PPP	13 35 35.8
AKT			eS	S	13 37 33.8
AKT			eSS	SS	13 42 02.7 -1.8
AKT			pmax	pmax	13 46 19.4 -2.8
AKT	comp=Z,7um,5.5s				
AKT			pmax	pmax	
AKT	comp=Z,473nm,1.0s				
AKT			pmax	pmax	
AKT	comp=N,244nm,1.2s				
AKT			pmax	pmax	
AKT	comp=E,455nm,1.3s				
AKT			smax	smax	
AKT	comp=N,5703um,6.3s				
AKT			smax	smax	
AKT	comp=E,8236um,11.2s				
AKT			MLR	MLR	
AKT	comp=N,59um,15.0s				
AKT			MLR	MLR	
AKT	comp=Z,98um,15.0s				
AKT			MLR	MLR	
TAVE	comp=Z,67um,14.0s				
VAGH	Vaagholmen	66.91 137	eP	P	13 33 14.9 +2.5
VAGH		67.25 340	eP	P	13 33 14.1 +0.2
VAGH			I	I	13 33 23.1
VAGH	comp=Z,3um,2.6s				
VAGH			eS	S	13 42 08.2 +0.7
VAGH			eSS	SS	13 46 30.2 +4.0
VAGH			IVMs_BB	IVMs_BB	14 06 12.3
HMDM	comp=Z,285um,15.0s				
HMDM	Hanimaadhoo	67.32 260	P	P	13 33 14.2 -0.9
HMDM			I	I	13 33 25.2
HMDM	comp=Z,417nm,1.1s				
HMDM			I	I	14 07 17.6
HMDM	comp=Z,15um,18.0s				
HMDM	Hanimaadhoo	67.32 260	P	P	13 33 17.5 +2.3
MOR8	Moi Rana	67.33 339	eP	P	13 33 17.3 -0.8
MOR8			eS	S	13 42 07.8 -0.9

Table with columns for station name, frequency, power, and other technical details. Includes stations like WAH2, MDH, ARMA, and many others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like YBH, CLDR, SOC, ASUD, and many others.

Table with columns for station name, frequency, power, and other technical details. Includes stations like NC602, NRORSAR, KARO, and many others.









18d 13h

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like ANMO Albuquerque, IWEK Carriekbyrne, and many others.

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Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like JAZZ Timpagrande, JAZZ Jackson Bay, and many others.

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Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like ICQ Pointe Anglais, J47A Summer, and many others.

PECO	Prince Edward	91.45	25	Iamb	Iamb	13 35 36.3
T42A	Van Buren	91.46	38	Iamb	Iamb	13 35 30.1
T42A	comp-Z, 676nm, 1.9s			IAMs_20	IAMs_20	14 16 24.5
OLIL	Olney	91.49	35	IAMs_20	IAMs_20	14 18 56.1
BATG	Bathurst New B	91.49	17	IAMs_20	IAMs_20	14 19 53.1
O48B	Farnland	91.52	33	IAMs_20	IAMs_20	14 20 17.7
MEDO	Medina	91.62	27	Iamb	Iamb	13 35 37.4
MEDO	comp-Z, 385nm, 1.1s			IAMs_20	IAMs_20	14 21 13.2
FRNY	Flat Rock	91.73	23	Iamb	Iamb	13 35 30.8
ROCAM	Rochester Islds	91.81	246	IAMs_20	IAMs_20	14 18 32.1
JCT	Junction City	91.82	48	IAMs_20	IAMs_20	14 19 36.7
BLO	Bloomington	91.83	34	IAMs_20	IAMs_20	14 18 02.1
FCAR	Ozark Folk Cen	91.85	40	Iamb	Iamb	13 35 37.9
FCAR	comp-Z, 166nm, 1.1s			IAMs_20	IAMs_20	14 22 25.0
O49A	Covington	91.92	32	Iamb	Iamb	13 35 32.3
O49A	comp-Z, 624nm, 1.9s			IAMs_20	IAMs_20	14 18 50.3
CGM3	Cape Girardeau	91.93	37	Iamb	Iamb	13 35 32.2
CGM3	comp-Z, 347nm, 1.8s			IAMs_20	IAMs_20	14 19 45.9
M52A	Chesterland	91.96	29	IAMs_20	IAMs_20	14 18 27.3
PBMO	Poplar Bluff	91.98	38	IAMs_20	IAMs_20	14 16 51.2
ERPA	Erie	91.98	28	Iamb	Iamb	13 35 39.5
ERPA	comp-Z, 262nm, 1.1s			IAMs_20	IAMs_20	14 23 08.7
WHTX	Lake Whitney	92.03	45	Iamb	Iamb	13 35 40.4
WHTX	comp-Z, 333nm, 1.4s			IAMs_20	IAMs_20	14 20 56.1
P48A	Milroy	92.07	33	Iamb	Iamb	13 35 32.8
P48A	comp-Z, 588nm, 1.9s			IAMs_20	IAMs_20	14 20 18.3
MIAR	Mount Ida	92.17	41	Iamb	Iamb	13 35 40.1
LCAR	Lake Charles	92.19	39	IAMs_20	IAMs_20	14 18 32.9
MMNY	Mt. Morris Dam	92.20	27	IAMs_20	IAMs_20	14 24 19.3
WHAR	Woolly Hollow	92.24	40	Iamb	Iamb	13 35 40.0
WHAR	comp-Z, 257nm, 1.8s			IAMs_20	IAMs_20	14 22 32.4
J57A	Williamstown	92.25	25	Iamb	Iamb	13 35 40.1
J57A	comp-Z, 340nm, 1.1s			IAMs_20	IAMs_20	14 22 06.6
F64A	Sherman	92.26	19	Iamb	Iamb	13 35 33.7
F64A	comp-Z, 477nm, 1.9s			IAMs_20	IAMs_20	13 35 40.9
G62A	West of Eustis	92.27	21	Iamb	Iamb	13 35 40.9
G62A	comp-Z, 296nm, 1.4s			IAMs_20	IAMs_20	14 20 35.0
USIN	University of	92.31	35	IAMs_20	IAMs_20	14 14 58.9
ALLY	Alegheny Colle	92.33	29	IAMs_20	IAMs_20	14 20 56.9
PARMO	Parma	92.39	38	Iamb	Iamb	13 35 33.3
PARMO	comp-Z, 219nm, 0.8s			IAMs_20	IAMs_20	14 19 09.2
Z38A	Mt. Pleasant	92.42	43	Iamb	Iamb	13 35 41.8
Z38A	comp-Z, 316nm, 1.2s			IAMs_20	IAMs_20	14 22 00.3
ETOS	Malorca	92.47	328	P	P	13 35 30.7 -0.2
PKME	Peaks-Kenny Pk	92.57	20	Iamb	Iamb	13 35 35.4
PKME	comp-Z, 611nm, 1.9s			IAMs_20	IAMs_20	14 19 17.8
X40A	Basin Creek Fa	92.59	41	Iamb	Iamb	13 35 41.1
X40A	comp-Z, 192nm, 1.3s			IAMs_20	IAMs_20	14 21 03.8
UALR	University of	92.62	40	IAMs_20	IAMs_20	14 20 52.4
PVMO	Portageville	92.62	38	IAMs_20	IAMs_20	14 25 23.2
T45A	Paducah	92.63	37	IAMs_20	IAMs_20	14 18 24.5
K57A	SciPIO Cent	92.68	26	Iamb	Iamb	13 35 42.2
K57A	comp-Z, 353nm, 1.2s			IAMs_20	IAMs_20	14 22 02.9
J59A	Piesco	92.69	24	Iamb	Iamb	13 35 42.1
J59A	comp-Z, 288nm, 1.1s			IAMs_20	IAMs_20	13 35 31.2 -0.8
WCI	Wyandotte Cve	92.71	34	P	P	13 35 31.3 -0.8
WCI	comp-Z, 472nm, 1.9s			IAMs_20	IAMs_20	14 22 02.9
WCI	comp-Z, 472nm, 1.9s			IAMs_20	IAMs_20	14 22 02.9
HICK	Hickman	92.74	37	IAMs_20	IAMs_20	14 19 59.4
LBNH	Lisbon	92.77	22	Iamb	Iamb	13 35 36.6
PEBM	Peniscot Bayo	92.78	38	IAMs_20	IAMs_20	14 22 34.6
N53A	Lisbon	92.79	29	Iamb	Iamb	13 35 36.5
N53A	comp-Z, 476nm, 1.7s			IAMs_20	IAMs_20	14 19 02.3
HND0	Hondo	92.83	48	Iamb	Iamb	13 35 36.8
KEST	Kesra	92.83	321	P	P	13 35 32.8 0.0
KEST	comp-Z, 41nm, 1.1s, baz=46, slow=1.5, SNR=20			IAMs_20	IAMs_20	13 39 17.6 +3.3
KEST	comp-Z, 34nm, 1.2s, baz=213, slow=4.4, SNR=4.8			IAMs_20	IAMs_20	13 52 46.1 +3.6
KEST	comp-Z, 4.8nm, 0.9s, baz=290, slow=4.0, SNR=5.7			IAMs_20	IAMs_20	14 22 24.1
KEST	comp-Z, 23nm, 18.0s, baz=42, slow=39			IAMs_20	IAMs_20	13 35 31.2 -1.6
FURI	Fura	92.83	284	IAMs_20	IAMs_20	14 22 45.2
HBAR	Harrisburg	92.84	39	IAMs_20	IAMs_20	14 18 11.2
L56A	Greenwood	92.84	27	Iamb	Iamb	13 35 43.0
L56A	comp-Z, 315nm, 1.1s			IAMs_20	IAMs_20	14 22 54.4
H06S1	SOCORRO T	92.88	63	P	P	13 35 34.9 +1.8
GLAT	Glass	92.93	37	IAMs_20	IAMs_20	14 20 16.5
LNXT	Lenox	92.97	38	IAMs_20	IAMs_20	14 23 29.5
O52A	Adamsville	93.00	30	Iamb	Iamb	13 35 36.2
ACCN	Adirondack Ctr	93.02	24	Iamb	Iamb	13 35 43.9
ACCN	comp-Z, 267nm, 1.2s			IAMs_20	IAMs_20	14 21 09.9
CMAH	Djebel Manchow	93.03	323	P	P	13 35 33.2 -0.5
P51A	Williamsport	93.04	32	IAMs_20	IAMs_20	14 22 16.9
UTMT	University of	93.08	37	IAMs_20	IAMs_20	14 18 29.1
WLAR	White Oak Lake	93.08	42	Iamb	Iamb	13 35 44.5
WLAR	comp-Z, 293nm, 1.1s			IAMs_20	IAMs_20	14 18 39.6
WVL	Waterville	93.12	20	Iamb	Iamb	13 35 37.7
WVL	comp-Z, 587nm, 1.9s			IAMs_20	IAMs_20	14 19 47.3

O53A	New Philadelphia	93.13	30	Iamb	Iamb	13 35 38.9
O53A	comp-Z, 13um, 19.0s			IAMs_20	IAMs_20	14 18 18.1
R49A	Shelbyville	93.15	34	IAMs_20	IAMs_20	14 17 04.0
R49A	comp-Z, 11um, 20.0s			IAMs_20	IAMs_20	14 18 17.0
HNH	Hanover	93.15	22	Iamb	Iamb	13 35 38.4
HALT	Halls	93.20	38	IAMs_20	IAMs_20	14 24 54.5
ABSA	Djebel Abasiba	93.29	323	P	P	13 35 34.3 -0.6
PS2A	Corning	93.29	31	Iamb	Iamb	13 35 38.1
Q51A	Peebles	93.31	32	Iamb	Iamb	13 35 45.2
Q51A	comp-Z, 146nm, 1.9s			IAMs_20	IAMs_20	13 35 45.2
BINY	Binghamton	93.33	26	Iamb	Iamb	13 35 45.4
BINY	comp-Z, 319nm, 1.2s			IAMs_20	IAMs_20	14 22 32.2
I63A	Otisfield	93.33	21	Iamb	Iamb	13 35 46.0
I63A	comp-Z, 316nm, 1.1s			IAMs_20	IAMs_20	14 20 08.1
T47A	Sharon Grove	93.37	36	IAMs_20	IAMs_20	14 19 04.8
T47A	comp-Z, 12um, 20.0s			IAMs_20	IAMs_20	13 35 39.4
J61A	Chester	93.40	23	Iamb	Iamb	13 35 39.6
J61A	comp-Z, 487nm, 1.8s			IAMs_20	IAMs_20	14 21 58.8
R50A	Paris	93.52	33	Iamb	Iamb	13 35 39.6
R50A	comp-Z, 332nm, 1.8s			IAMs_20	IAMs_20	14 21 58.8
CKFL	Rif-Lekhal	93.54	324	P	P	13 35 35.9 -0.2
Z41A	Kendall Creek	93.57	42	IAMs_20	IAMs_20	14 22 33.7
CCAR	Cane Creek	93.58	41	IAMs_20	IAMs_20	14 23 17.0
CCAR	comp-Z, 12um, 18.0s			IAMs_20	IAMs_20	13 35 46.8
L59A	Walton	93.65	25	Iamb	Iamb	13 35 46.8
L59A	comp-Z, 352nm, 1.1s			IAMs_20	IAMs_20	14 22 57.7
EIBI	Ibiza	93.70	329	P	P	13 35 36.5 -0.1
M57A	Sunshine Farm	93.70	27	Iamb	Iamb	13 35 47.3
M57A	comp-Z, 318nm, 1.1s			IAMs_20	IAMs_20	14 23 29.1
WVT	Waverly	93.73	37	P	P	13 35 35.1 -1.7
WVT	comp-Z, 14um, 20.0s			IAMs_20	IAMs_20	13 35 40.7
WVT	Waverly	93.73	37	IAMs_20	IAMs_20	14 18 57.6
WVT	comp-Z, 14um, 21.0s			IAMs_20	IAMs_20	13 35 35.1 -1.7
WVT	Waverly	93.73	37	P	P	13 35 35.1 -1.7
WVT	comp-Z, 436nm, 1.9s			IAMs_20	IAMs_20	14 21 10.5
NATX	Nacogdoches	93.75	44	IAMs_20	IAMs_20	14 21 10.5
NATX	comp-Z, 14um, 21.0s			IAMs_20	IAMs_20	14 22 57.2
Q52A	Bidwell	93.81	31	IAMs_20	IAMs_20	14 22 57.2
Q52A	comp-Z, 14um, 19.0s			IAMs_20	IAMs_20	13 35 37.6 +0.3
DFRA	Djebel Bou Aff	93.81	324	P	P	13 35 37.6 +0.3
KSFA	Keystone Colle	93.97	26	Iamb	Iamb	13 35 48.2
SSPA	Standing Stone	94.05	28	P	P	13 35 36.1 -2.1
SSPA	comp-Z, 192nm, 1.3s			IAMs_20	IAMs_20	14 23 11.3
SSPA	Standing Stone	94.05	28	IAMs_20	IAMs_20	14 23 11.3
SSPA	comp-Z, 13um, 19.0s			IAMs_20	IAMs_20	13 35 38.5 -0.1
ECHL	Calabar	94.11	335	P	P	13 35 38.5 -0.1
ECAL	Chera	94.13	330	P	P	13 35 38.5 -0.1
MCWV	Mont Chateau	94.17	29	IAMs_20	IAMs_20	14 19 44.6
MCWV	comp-Z, 15um, 21.0s			IAMs_20	IAMs_20	14 18 44.3
G35A	Kenedy	94.18	48	IAMs_20	IAMs_20	14 22 12.2
G35A	comp-Z, 19um, 20.0s			IAMs_20	IAMs_20	13 35 43.1
7BN	Guyusborough	94.24	15	IAMs_20	IAMs_20	14 22 12.2
7BN	comp-Z, 14um, 18.0s			IAMs_20	IAMs_20	13 35 49.3
N58A	Sunbury	94.28	27	Iamb	Iamb	13 35 43.1
N58A	comp-Z, 519nm, 1.9s			IAMs_20	IAMs_20	14 23 45.3
OXF	Oxford	94.29	39	Iamb	Iamb	13 35 49.3
OXF	comp-Z, 217nm, 1.1s			IAMs_20	IAMs_20	14 23 45.4
OXF	Nancy	94.36	34	Iamb	Iamb	13 35 43.4
OXF	comp-Z, 430nm, 1.8s			IAMs_20	IAMs_20	13 35 43.3
U49A	Red Boiling Sp	94.36	35	Iamb	Iamb	14 22 02.1
U49A	comp-Z, 487nm, 1.9s			IAMs_20	IAMs_20	13 35 39.5 -0.2
UCM	Universidad Co	94.36	332	P	P	13 35 39.5 -0.2
Q54A	Coxs Mills	94.37	30	Iamb	Iamb	13 35 50.2
Q54A	comp-Z, 219nm, 1.2s			IAMs_20	IAMs_20	14 22 26.9
Q54A	Hockley	94.37	33	IAMs_20	IAMs_20	14 21 56.3
Q54A	comp-Z, 13um, 18.0s			IAMs_20	IAMs_20	14 22 00.7
CLTN	Cedars of Leba	94.46	36	IAMs_20	IAMs_20	14 22 00.7

18d 13h

Table with columns for station name, frequency, power, and signal strength. Includes stations like W59A Clinton, WMLI Melilla, PTEO Sao Teotônio, etc.

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Table with columns for station name, frequency, power, and signal strength. Includes stations like PTBC PUERTO BERRIO, BRJC Barrancabermej, BOSA Boshof, etc.

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Table with columns for station name, frequency, power, and signal strength. Includes stations like NBMA Muriti-CE, VILB Vilhena, CLDB Colider, etc.





Table with columns: Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR, DZM, FITZ, etc.

STR 18-14:06:43.1.6.45 N10.0, h0km, MLv1.5/6, Error ellipse: s-maj=0.0km s-min=0.0km az=168.0, preliminary, France

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GRN, RRL, etc.

IDC 18-14:09:29.4.4.1.38.83Nk.139.64E, h0km, mb3.2/1, mbmp3.2/3, ML2.7/2, Error ellipse: s-maj=55.9km s-min=53.5km az=71.0

JMA 18-14:09:33.4.0.1.38.7N.0.2.139.4E.0.3, h10km, 1km, MV3.5/40, W OFF YAMAGATA PREF

JMA Felt J1 at W OFF YAMAGATA PREF

ISC 18-14:09:31.6.1.3.3877N.0.06.139.46E.0.04, h11km, 8km, n12, c131/20, SD, Near west coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JYA, JAW, JTB, etc.

GCG 18-14:11:44.5.0.3.14.41N.92.39W, h60km, 107km, MD3.8, ML3.4

MEX 18-14:11:45.8.0.4.14.81N.92.32W, h82km, 5km, MD3.7

ISC 18-14:11:40.1.2.4.14.6N.0.1.92.42W.0.09, h99km, 14km, n11, c240/21, 1C-1D, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like THIG, SMCA, PATR, etc.

IDC 18-14:27:05.5.0.8.20.70S.169.71E, h73km, 6km, mb4.1/9, mbmp4.4/11, Error ellipse: s-maj=18.7km s-min=11.6km az=148.0

NOU 18-14:27:06.0.0.20.81S.169.74E, h56km, mb4.8/29, Vanuatu Islands

NEIC 18-14:27:08.6.0.9.20.66S.0.09.169.39E.0.07, h99km, 8km, mb4.7/9, Error ellipse: s-maj=16.0km s-min=4.1km az=144.0

ISC 18-14:27:07.8.0.5.20.71S.0.05.169.61E.0.06, h100km, n70, c183/71, mb4.7/14.5D, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like INH, MARC, PINNC, etc.

Table with columns: Station Name, Az, Az', Phase ID, Time, Res. Includes stations like VLAKA, SANVU, MSVF, etc.

VNDA Vanda 56.98 182 P P 14 36 43.6 +1.1

VNDA Vanda 56.98 182 P P 14 36 43.0 +0.5

SBA Scott Base 57.21 181 P P 14 36 45.8 +1.8

CMAR Chiang Mai Arr 742.294 P P 14 39 06.5 +3.0

CMAR Chiang Mai Arr 742.294 P P 14 39 24.9 -3.9

BELA Belgrano 2 80.61 175 P P 14 39 08.9 0.0

TROLL Troll, Antarti 87.11 184 P P 14 39 42.5 +1.6

SNAA Sanae 87.72 182 P P 14 39 44.7 -0.4

SNAA Sanae 87.72 182 P P 14 39 45.2 +0.1

VNA3 Neumayer Oyamp 88.30 180 P P 14 39 47.7 -0.1

VNA2 Neumayer-Watz 88.59 181 P P 14 39 49.3 +0.2

SONM Songoing Arr 88.59 323 P P 14 39 50.4 +0.8

VNA1 Neumayer-Stat 88.88 181 P P 14 39 50.9 +0.4

NVAR Mina Arra 89.51 48 P P 14 39 55.0 +0.7

NVAR Mina Arra 89.51 48 P P 14 39 54.8 +0.5

ILAR Eielson Array 91.52 17 P P 14 40 01.9 -0.8

ILAR Eielson Array 91.52 17 P P 14 40 21.9 -6.7

U15A North Rim 92.99 52 P P 14 40 11.6 +1.1

BRG Berggiesshuetl 144.33 333 eP PKPbc 14 46 31.2 +0.6

CLL Collm 144.38 335 i PKPpdf PKPbc 14 46 31.4 +0.6

EKA Eskdalemuir Arr 145.00 353 PKPbc PKPbc 14 46 31.7 -0.9

GERES GERES Array B 145.94 331 PKPbc PKPbc 14 46 36.4 +0.5

BUI 18-14:27:14.4.7.93S.129.01E, h129km, mb5.3/1, mb4.9/33

IDC 18-14:27:18.2.1.7.7.50S.128.82E, h116km, 14km, mb4.4/15, mbmp4.8/18, Error ellipse: s-maj=15.2km s-min=10.1km az=87.0

NEIC 18-14:27:18.3.1.6.7.53S.0.04.128.90E.0.05, h115km, 7km, mb4.9/37, Error ellipse: s-maj=9.3km s-min=2.3km az=125.0

DJA 18-14:27:18.2.0.2.8.5.2.12.9E.1, h120km, 2km, M5.1/72, mb5.0/72, mb5.6/18, MLV5.2/18, Mw(m)5.1/18

ISC 18-14:27:18.8.0.5.7.62S.0.04.128.91E.0.03, h124km, 4km, n231, c163/248, mb4.8/42, SC, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SAUI, BANI, MTN, etc.

Table with columns: Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KNRA, RKPI, TNTI, etc.

WBI Waiyap 8.63 252 P P 14 29 19.6 -1.2

WBI Waiyap 8.63 252 P P 14 29 22.0 -0.5

BNSI Bonahe 9.326 0.90 P P 14 29 28.8 -1.4

KAPI Kappang 9.46 285 Pn Pn 14 29 30.1 -2.0

KAPI Kappang 9.46 285 Pn Pn 14 29 31.9 -0.2

KAPI Kappang 9.46 285 Pn Pn 14 29 33.8 +1.7

KAPI Kappang 9.46 285 Pn Pn 14 29 32.1 -0.6

WBSI Waikabubak, Su 9.62 257 P P 14 29 32.8 -1.5

WBSI Waikabubak, Su 9.62 257 P P 14 29 37.0 +0.5

APSI Ampama 9.84 312 P P 14 29 37.9 +0.8

TTSI Tana Toraja 10.13 296 P P 14 29 40.6 -0.4

WAMI Warana 10.43 70 P P 14 29 44.9 -0.2

MRSI Marisa 10.63 319 P P 14 29 48.5 +0.7

FITZ Fitzroy Crossi 10.89 197 P P 14 29 47.7 -3.5

FITZ Fitzroy Crossi 10.89 197 P P 14 29 47.8 -3.5

FITZ Fitzroy Crossi 10.89 197 P P 14 29 48.0 -3.3

FITZ Fitzroy Crossi 10.89 197 P P 14 31 41.4 -1.0

FITZ Fitzroy Crossi 10.89 197 P P 14 29 48.5 -2.7

PLAI Plampang 11.09 263 P P 14 29 52.6 -1.3

PLAI Plampang 11.09 263 P P 14 29 51.9 -3.6

PCI Palu 11.24 306 P P 14 29 57.3 +1.4

SMPI Samri 11.25 61 P P 14 29 51.9 -4.2

SGSI Sangihe 11.73 343 P P 14 30 01.8 -0.6

TOL2 Tolitoli 11.87 317 P P 14 30 02.0 -2.3

TOL2 Tolitoli 11.87 317 P P 14 30 06.9 -2.3

TOL2 Tolitoli 11.87 317 P P 14 30 03.5 -1.9

TWISI Taliwang, Sumb 11.96 264 P P 14 30 05.8 +0.2

MPSI Mapaga 11.97 311 P P 14 30 05.1 +0.6

GENI Genyem 12.27 67 P P 14 30 01.0 +0.6

GENI Genyem 12.27 67 P P 14 30 06.0 -3.3

JAY Jayapura 12.79 67 P P 14 30 14.9 -1.4

JAY Jayapura 12.79 67 P P 14 30 14.4 -2.0

WBO Warramunga Arr 13.19 157 P P 14 30 17.9 -3.6

WRAB Tennant Creek 13.33 157 P P 14 30 19.7 -3.5

WRA Warramunga Arr 13.33 157 P P 14 30 18.0 -5.3

WRA Warramunga Arr 13.33 157 P P 14 30 19.2 -4.1

WRA Warramunga Arr 13.33 157 P P 14 32 36.9 -1.4

WRA Warramunga Arr 13.33 157 P P 14 30 20.3 -3.9

JAGI Jagaj, Banyuwa 14.64 266 Pn Pn 14 30 36.0 -4.0

JAGI Jagaj, Banyuwa 14.64 266 Pn Pn 14 30 38.9 -1.1

JAGI Jagaj, Banyuwa 14.64 266 Pn Pn 14 30 48.1 -0.6

COEN Coen 15.36 115 P P 14 30 46.8 -2.3

COEN Coen 15.36 115 P P 14 30 47.8 -1.2

COEN Coen 15.36 115 P P 14 30 47.8 -1.2

MBWA Marble Bar 16.12 212 Pn Pn 14 30 56.7 -1.7

MBWA Marble Bar 16.12 212 Pn Pn 14 30 58.3 -0.1

MBWA Marble Bar 16.12 212 Pn Pn 14 30 58.9 -0.4

PSA00 Pilbara Seismi 16.40 211 Pn Pn 14 31 01.5 -1.4

PSA00 Pilbara Seismi 16.40 211 Pn Pn 14 31 00.9 -0.9

PSA00 Pilbara Seismi 16.40 211 Pn Pn 14 31 01.6 -0.3

PSA00 Pilbara Seismi 16.40 211 Pn Pn 14 31 05.2 +2.5

PSA00 Pilbara Seismi 16.40 211 Pn Pn 14 31 05.1 -0.7

QIS Mount Isa 16.51 142 P P 14 31 01.9 -1.3

AS31 Alice Springs 16.66 164 Pn Pn 14 31 02.7 -2.4

AS31 Alice Springs 16.66 164 Pn Pn 14 31 02.9 -2.2

ASAR Alice Springs 16.66 164 Pn Pn 14 31 02.5 -2.5

ASAR Alice Springs 16.66 164 Pn Pn 14 31 02.4 -2.6

ASAR Alice Springs 16.66 164 Pn Pn 14 33 59.0 -1.2

AS01 Alice Springs 16.67 164 P P 14 31 03.2 -2.0

PCJ1 Pacitan 17.57 267 P P 14 31 12.7 -2.7

WOJ1 Wonorejo, Jawa 17.83 268 P P 14 31 17.2 -1.0

PMG Port Moresby 18.13 97 P P 14 31 19.9 -1.6

PMG Port Moresby 18.13 97 P P 14 31 23.8 +0.9

PMG Port Moresby 18.13 97 P P 14 31 22.2 -0.7

MTSU Mount Surprise 18.28 126 P P 14 31 24.3 -0.3

MTSU Mount Surprise 18.28 126 P P 14 31 24.3 -0.3

MTSU Mount Surprise 18.28 126 P P 14 31 24.3 -0.3

KKM Kota Kinabalu 18.57 317 P P 14 31 25.0 -1.4

STKI Sintang 18.99 293 P P 14 31 30.3 -0.6

KSM Kuching 20.64 295 P P 14 31 47.9 -0.8

KSM Kuching 20.64 295 P P 14 31 48.3 -0.4

CTAO Charters Tower 20.88 128 P P 14 31 52.2 +0.9

CTAO Charters Tower 20.88 128 P P 14 31 52.5 +0.5

MEEK Meekatharra 21.30 206 P P 14 31 56.8 +1.1

TPI Tanjungpandan 21.71 282 P P 14 31 50.9 +0.7

FORT Forrest 23.05 182 P P 14 32 14.0 +0.5

FORT Forrest 23.05 182 P P 14 32 14.2 +0.8

FORT Forrest 23.05 182 P P 14 32 14.5 +1.1

KMBL Kambalda 24.52 195 P P 14 32 28.1 +1.3

MORW Morawa 24.54 208 P P 14 32 27.9 +0.9

MORW Morawa 24.54 208 P P 14 32 30.2

MORW Morawa 24.54 208 P P 14 32 28.3 +1.3

BLDU Ballidu 25.57 205 P P 14 32 37.4 +1.1

BBOO Buckleboe 25.93 166 P P 14 32 40.0 +0.5

BBOO Buckleboe 25.93 166 P P 14 32 41.0

BBOO Buckleboe 25.93 166 P P 14 32 40.2 +0.7

KLBR Kellerberrin 26.02 166 P P 14 32 41.6 +1.2

WHYH Whyalla 26.53 164 P P 14 32 45.7 +0.8

GD15 Gidley Range 26.75 130 P P 14 32 47.9 +0.5

HTT Hallett 27.30 162 P P 14 32 53.1 -1.2

NWAO Narragoin (SRO) 27.41 202 P P 14 32 53.9 +1.0

NWAO Narragoin (SRO) 27.41 202 P P 14 32 54.6

NWAO Narragoin (SRO) 27.41 202 P P 14 32 53.0 +0.2

EIDS Eidsvold 27.55 132 P P 14 32 53.7 -0.4

CMSA Cobar Meteorol 28.40 149 P P 14 33 03.5 +1.1

BKNI Bonahe 28.89 263 P P 14 33 01.1 -0.2

TATA Tambora Isabel 30.60 94 P P 14 33 21.1 -0.2

SAVO Savo Central 30.61 95 P P 14 33 21.3 -0.1

HNR Honiara 30.74 96 P P 14 33 22.1 -0.5

KULM Kulim 30.98 294 P P 14 33 24.1 -0.5

KULM Kulim 30.98 294 P P 14 34 00.9

ALPS Mount Arapiles 31.32 160 P P 14 33 28.8 +1.5

ALEG Aligege Malai 31.48 94 P P 14 33 27.9 -1.1

RPSI Rantau Prapat 31.62 288 P P 14 33 29.2 -1.1

RPSI Rantau Prapat 31.62 288 P P 14 33 33.1

PSI Prapat 31.66 288 P P 14 33 30.4 -0.4

UBPT Khong Chiam 32.52 314 P P 14 33 37.2 -0.9

CAN Canberra 33.16 149 P P 14 33 45.6 +2.1

CAN Canberra 33.16 149 P P 14 34 15.2 +4.8

CAN Canberra 33.16 149 P P 14 36 24.8 +1.1



18d 15h

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like WJS, LXIB, WKTB, etc.

2019 JUN

Table with columns: Code, Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like F24K, ILAR, SCM, etc.

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Table with columns: Code, Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like BKZ, TUWZ, WBO, etc.









18d 16h

Table with columns for bird species (e.g., CMB, CHNA, GLA), dates (IAMS\_20), and various performance metrics (e.g., 16 53 54.8).

2019 JUN

Table with columns for bird species (e.g., TPNV, V12A, Y14A), dates (IAMS\_20), and various performance metrics (e.g., 88.69 45).

1066

Table with columns for bird species (e.g., WVOR, WVOR, KDAK), dates (IAMS\_20), and various performance metrics (e.g., 91.00 39).

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like M15K Kasigliuk River, P196K Nishlik Lake, and many others.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like BJI Beijing, SEW Seward, and many others.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like HIN Hinchinbrook I, GAMB Gambell, and many others.





18d 16h

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like MKAR, ZALV, WBO, UZB, etc.

2019 JUN

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like ASCN, ATD, SCO, LODK, etc.

1070

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like HOMB, SNART, BZK, etc.









Table with columns: ID, Name, Comp, Az, El, Dist, Type, Status, Date, Time, etc. Rows include Morning Glory, West Nyswonger, Paradox Valley, Lion Creek, Paradox Valley, Carpenter Ridg, SADO Sadowa, J61A Chester, G40A Rib Lake, SPMM Marine On St, HMU Henry Mountain, W13A Hualapai Mount, NPGb Novo Progresso, BUKO Buck Lake, O20A White Star, LONY Lake Ozonia, COWI Conover, SRU San Rafael Swe, PFO Pinyon Flats O, W12A Nelson, F33A 5 Mile Ranch, E38A The Farm, Brul, MNTG Montreal, PDRB Porto dos Gac, CLDB Colider, G62A West of Eustis, PTLB Pontes e Lacer, GRCB Goldstone Bar, PKME Peaks-Kenny Pk, GWY Greenwater Val, TPVN Topoph Spring, S11A Rachel, PDAR Pinedale Array, TBO Thunder Bay, HWUT Hardware Ranch, GRAC Grapevine Rang, AGMN Agassiz Nation, TPH Tonopah, DSP Deep Springs, D62A Allapont, EPLD Experimental L, LMM Caledon Moun, NVN1 Mina Array Sit, NVAR Mina Array Bea, NVAR Mina Array Bea, LHV Little Huntout, RYN Ryan, BATG Bathurst New B, YHL Hebgen Lake, ULM Lac du Bonnet, WAKR Walker, PNTR Pine Nut, SNDB Serra Nova Dou, PAHR Pah Rah Range, MPK Martis Peak, MURT Porto Martinho, ARAG Araguaiana, RLID Pearl Lake, SMTB Santa Maria do, AQDB Aquidauana, PINE Pine Mountain, BBOR Butler Butte, I04A Tendick Farm, HAWA Hanford, BDBF Brasilia, BDBF Brasilia, I03D Drain, MXC Moxie City, H04D Lebanon, MT08 Bocatomia Ro, SCHO Schefferville, SDBA SAO DESIDERIO, FCC Fort Churchill, LLLB Lillooet, ITAB Concordia, DIAM Diamantina, MG, CMCO1 Camacao, SAJMB Sao Jaco De Ma, YKA Yellowknife Ar, YKA, V35K Ketchikan, BEAVL Fort Liard, CRAG Craig, U33K Whale Pass, R33M Jennings River, Q32M Nakina River, S32K Killisnoo

Table with columns: SIT Sitka, P33M Teslin, MIMPY Sheldon Lake, MIMPY Sheldon Lake, PLBC Pleasant Camp, WHY Whitehorse, FARO Faro, O30N Mendenhall, O30N Mendenhall, P30M Million Dollar, P29M Windy Craggy, P29M Windy Craggy, N31M Braeburn, N30M Aishikik Lake, O29M Mount Kennedy, PNL Peninsula, MAYO Mayo, O28M Mount Upton, YUKK Steele Glacier, M29M Somme Creek, M29M Somme Creek, L29M L29M, J30M Hart River, H31M Peel River, K29M Barlow Dome, YUK3 Moose Creek, CTG Chitna Glacier, I30M Mount Dempster, I30M Mount Dempster, G31M Satah River, G31M Satah River, BVCV Beaver Creek, M27K Edge Creek, EPYK Eagle Plains, I29M Ogilvie Camp, INK Inuvik, G30M A'oh Zraii Nji, BCAR Beaver Creek A, L27K Beaver Creek, F30M Barrier River, F30M Barrier River, M26K Nabesna, H29M Whitestone, H29M Whitestone, BMRM Bremner River, I28M Minn Creek, G29M Pine Creek, K27K Chicken, N25K Chitina, Valde, L26K Log Cabina Wild, EYAK Cordova Ski Ar, KLU Klutina, I27K Kandik River, DOT Dot Lake, E29M Blow River, SCRK Sand Creek, J26L Joseph Creek, J26L Joseph Creek, H27K Steamboat Moun, H27K Steamboat Moun, M24K Tolsona, Glenn, PAX Paxson, F28M Old Crow, F28M Old Crow, RIDG Independent Ri, RIDG Independent Ri, I26K Coal Creek Min, G27K Doyon Strip, E28M Babbage River, E28M Babbage River, K24K Donnelly Dome, PWL Port Walls, M23K Glacier View, J25K Salcha River, J25K Salcha River, KWK Knik Glacier, SENK Seward, SML Sawmill, WAT6 Susitna Watana, E27K Coleen River, O22K Cooper Landing, G26K Porcupine River, PRP Porcupine Dome

Table with columns: HDA Harding Lake, HDA Harding Lake, D27M Malcom River, BRSE Bradley Lake S, IL31, ILAR Eielson Array, ILAR Eielson Array, ILAR Eielson Array, H25L Birch Creek, F26K Sheenjek River, RND Reindeer, POKH Poker Plat Res, MCK McKinley, CAPN Captain Cook N, G25K Bearman Lake, F25K Christian Rive, H24K Noodor Dome, H24K Noodor Dome, NEA2 Nenana, E25K Arctic Village, TRF Thorofare Moun, TRF Thorofare Moun, C27K Jago River, G24K Hadwenzic Riv, G24K Hadwenzic Riv, SKT Skutumpah, I23K Minto, Yukon-K, I23K Minto, Yukon-K, P19K Oil Pt, Q19K Cape Douglas, KTH Kantishna Hill, H23K Yukon River, BPAW Bear Paw Mtn, BPAW Bear Paw Mtn, F24K Squaw Lake, C26K Camden Bay, PPLA Purkeypile, MLY Manley, MLY Manley, D25K Kavik River, D25K Kavik River, CAST Castle Rocks, M20K Styx River, I018K Katmai Hardscr, E24K Your Creek, G23K Bananza Creek, G23K Bananza Creek, N19K Bonanza Creek, P18K Big Mountain, H22K Ishlantina Cre, COLD Coldfoot, Q17K Contact Creek, L20K Farewell, AK, E23K Chandalar, E23K Chandalar, M19K Big River Lodg, TOLK Toolik Lake Re, K20K Telida, G22K Bettles, C24K Franklin Bluff, L19K White Mountain, H21K Melozona Rive, J20K Nowinta River, J20K Nowinta River, M18K Stony River, D23K Ananushuk River, E22K Anaktuvuk Pass, E22K Anaktuvuk Pass, I20K Anedeneel, O17K Koliganek Bris, G21K Farwell, AK, C23K Itkillik River, C23K Itkillik River, N17K Nushagak Hills, J19K Poorman, J19K Poorman, F21K Alatina River, F21K Alatina River, L18K Granite Mounta, H20K Anoteega Mo, D22K Aiyikayak Riv, M17K Hollina River, CHNA Chernabura Isl, J18K Inokko River, S14K Fog Glacier

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Killik River, Nishlik Lake, Roundabout Mou, etc.

18d 16:48:12.8, 6.9, 28.21S:67.69W, h86km, 56km, mb3.4/2, mbtmp3.4/3, ML3.4/1, Error ellipse: s-maj=55.6km s-min=32.9km az=87.0

SJA 18:16:48:18.0, 7.28:20S:67:53W, h137km, 3km, ML3.5, MW3.7

ISC 18:16:48:17.3, 0.8, 28.14S:0:05:67.49W, 0:06, h131km, 7km, n28, r1524/43, La Rioja Province

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Vinchina, CERRO LA CRUZ, Choya, etc.

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Reserva Natura, San Juan, Coronel Fontan, etc.

SCB 18:16:50:44.8, 1.2, 21.35S:67:55W, h174km, 20km, ML2.7/2, MW3.8, Error ellipse: s-maj=9.0km s-min=7.2km

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like IPOC Station P, Mochara, etc.

IDC 18:16:57:08.5, 0.8, 12.92S:45:40E, h0km, mb3.8/10, mbtmp3.9/12, ML4.5/3, Error ellipse: s-maj=24.3km s-min=20.5km az=109.0

NEIC 18:16:57:09.6, 1.1, 12.85S:0:08:45.42E, 0:09, h10km, 1km, mb4.5/27, Error ellipse: s-maj=15.2km s-min=13.3km az=241.0

ISC 18:16:57:08.9, 0.4, 12.97S:0:05:45.47E, 0:06, h10km, n67, r1857/76, mb4.3/26, Northwest of Madagascar

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Sambava, Ambohitratompo, etc.

MATP Matopo 17.86 243 P 17 01 17.4 -0.3

MATP 0.2nm, 0.3s, baz=67, slow=12, SNR=19

MATP 0.5nm, 0.4s, baz=315, slow=20, SNR=1.4

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Thilalogang, Moremi, etc.

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Timpagrande, Karatzi Array, etc.

UPP 18:17:00:37.9, 0.1, 67:08N:20:95E, h0km, ML2.1, Unknown

IDC 18:17:00:39.2, 1.2, 67:07N:21:25E, h0km, mbtmp2.7/3, ML2.1/3, Error ellipse: s-maj=20.2km s-min=9.2km az=99.0

BER 18:17:00:40.1, 2.6, 66:38N:20:95E, h0km, ML1.7, Suspected explosion

ISC 18:17:00:37.4, 0.8, 67.06N:0:03:20.90E, 0:03, h0km, n22, r1949/34, Sweden

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Dundret, Ertsaerv, etc.

ARA0 ARCESS Array S 3.02 32 eP Pn 17 01 27.5 +1.0

ARA0 0.2nm, 0.3s, baz=210, slow=23, SNR=11

VAGH Vaagaholmen 3.03 267 eP Pn 17 01 29.0 +2.5

VAGH 0.2nm, 0.3s, baz=162, slow=20, SNR=1.4

FINES FINES Array B 6.07 156 Pn Pn 17 02 10.3 +0.6

FINES 0.2nm, 0.1nm, 0.3s, baz=346, slow=11, SNR=5.1

NOA NORARS Array B 7.38 220 Pn Pn 17 02 27.9 +1.6

NOA 24.2, slow=10, SNR=1.0

IDC 18:17:14:31.0, 4.0, 6.8:18S:116:33E, h0km, mb4.0/15, mbtmp4.1/18, ML4.1/3, Error ellipse: s-maj=21.6km s-min=11.5km az=76.0

NEIC 18:17:14:32.3, 2.9, 8:33S:0:08:11.6E, 0:05, h140km, 1km, mb4.4/22, Error ellipse: s-maj=13.1km s-min=7.9km az=353.0

DJA 18:17:14:33.0, 6.0, 4.8:54S:11:6E, 1.14km, 3km, ML4.6/22, MB5.0/1, mb4.6/11, MLV4.5/22, MB(MB)4.4/1

ISC 18:17:14:32.3, 0.4, 8.31S:0:04:11.62E, 0:03, h10km, n92, r2507/106, mb4.2/24, Sumbawa region

Table with columns: Code, Station Name, Az, El, Phase, ID, Time, Res. Rows include stations like Singaraja, Denpasar, etc.

Table of astronomical data for 18d 17h, listing stations like BASI, BNGI, NGJI, KAPI, etc., with columns for station name, coordinates, and other parameters.

Table of astronomical data for 18d 17h, listing stations like GRZ, DUWZ, QRZ, etc., with columns for station name, coordinates, and other parameters.

Table of astronomical data for 18d 17h, listing stations like GLKZ, RAO, RAO, etc., with columns for station name, coordinates, and other parameters.





18d 17h

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like 104A Tendick Farm, X16A Lo Mia Camp, X16A comp=2.2um,19.0s, etc.

2019 JUN

Table with columns: PLID, Name, Date, Time, Location, Status, etc. Includes entries like 104A Tendick Farm, X16A Lo Mia Camp, X16A comp=2.2um,19.0s, etc.

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Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like N30M Aishkik Lake, NEA2 Nenana, NEA2 comp=2.14nm,1.9s, etc.



18d 18h

Table of station data for 18d 18h, including columns for Code, Station Name, Frequency, and other parameters.

Table with header 'Code Station Name' and data for various stations like Urewera, Alice Springs, Warramunga Arr, etc.

Table with header 'Code Station Name' and data for stations like Urewera, Alice Springs, Warramunga Arr, etc.

Table with header 'Code Station Name' and data for stations like Green Lake, Raoul Island, Matakoao Point, etc.

2019 JUN

Main table of station data for 2019 JUN, including columns for Code, Station Name, Frequency, and other parameters.

1080

Table of station data for 1080, including columns for Code, Station Name, Frequency, and other parameters.

Table with columns: ELK, Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Elko, AGMNS Agassiz Nant, ANMO Pine Spring, etc.

NEIC 18 18:07:29.4 ± 1.0, 19:30N ± 0.07:68', 15W ± 0.02, h10km ± 1km, ML2.5/16, MD3.2/6(RSPR), Error ellipse: s-maj=12.1km

SDD 18 18:07:30.5 ± 2.0, 19:31N ± 0.08:08W, h22km ± 121km, MD3.5, ML2.0, MW2.4

RSRP 18 18:07:30.1, 19:45N ± 0.68', 16W, h86km ± 4km, MD3.2/6, ISC 18 18:07:29.1 ± 1.6, 19:22N ± 0.08:68:12W ± 0.03, h2km ± 11km, n31, ±0.66/36, 5C-2D, North Atlantic Ocean

Main table for station data with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Punta Cana, DR, Miches, Samana, DR, etc.

IDC 18 18:12:02.8 ± 0.4, 30:56S ± 178:03W, h0km, mb4.7/17, mbmp4.7/17, MS4.5/14, Error ellipse: s-maj=18.7km s-min=14.7km az=86.0

MOS 18 18:12:08.0 ± 0.9, 30:62S ± 178:14W, h47km, mb5.3/19, Error ellipse: s-maj=12.2km s-min=10.2km az=94.9

NEIC 18 18:12:09.6 ± 2.0, 30:65S ± 0.07:178:04W ± 1.1, h44km ± 4km, mb5.2/136, Error ellipse: s-maj=17.3km s-min=9.5km az=85.0

GCMT 18 18:12:11.6 ± 0.5, 30:74S ± 0.03:177:96W ± 0.04, h51km ± 1km, MW5.2/56, Moment Tensor Solution, s45,c50, s56,c65; Duration: 0 Moment tensor: Scale 10^19Nm; Mw: 6.1 ± 0.3; Mw-0.7 ± 0.2; Mw-0.4 ± 0.2; Mw-0.2 ± 0.2; Mw-0.1 ± 0.2; Best double couple: Mo: 6.91000e+10^16 Np1.9 ± 218.00000°, s44.00000°, λ99.00000°. NP2: 0.2 ± 5.00000°, s47.00000°, λ81.00000°. Principal axes: T 7.7300, Plg84.0000°, Azm22.0000°; N -1.6410, Plg6.0000°, Azm31.0000°; P -6.0890, Plg1.0000°, Azm121.0000°; nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function.

NOU 18 18:12:20.2, 31:88S ± 177:87W, h112km, mb4.8/18, Kermadec Islands Region

ISC 18 18:12:05.5 ± 0.9, 30:73S ± 0.04:177:98W ± 0.06, h19km ± 3km, n432, ±152/409, mb5.2/111, MS4.7/13, 11C-13D, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Green Lake, Raoul Island, Matakaoa Point, etc.

Main table for station data with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Tauwharepareae, Waipu Caves, Omahuta, etc.

Main table for station data with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Dumont d'Urville, Warramunga Arr, Tennant Creek, etc.







18d 18h

Table with columns: ID, Name, baz, SNR, P, I, A, M, B, 2019 JUN, 1084. Rows include L19K White Mountain, Q18K Katmai Hardscr, N19K Bonanza Creek, M19K Big River Lodg, F20K Avarart Lake, H20K Anotleneega Mo, O19K Port Alsworth, I20K Naaghedeneel, I20K Naaghedeneel, CHIR Chirikof Islan, D20K Eitvuk River, E20K Nigu River, K20K Telida, J20K Nowirta River, L20K Farewell, AK, B20K Meade River, B20K Meade River, TIXI Tiksi, TIXI Tiksi, TIXI Tiksi, IMAR Indian Mountai, M20K Styr River, Q19K Cape Douglas, Q19K Cape Douglas, P19K Oil Pt, ILSW Iliamna Southw, SII Sitkinak Islan, G21K Allakaket, G21K Allakaket, F21K Alatina River, F21K Alatina River, H21K Melozitna Rive, H21K Melozitna Rive, C21K Knifeblade Rid, O20K Slope Mountain, CHUM Lake Minchumin, HEH Heihe, E21K Killik River, PPLA Purkeypile, PPLA Purkeypile, N20K Mount Spurr, SPCR Spurr Chakacha, CAST Castle Rocks, CAST Castle Rocks, OHAK Old Harbor, OHAK Old Harbor, A21K Barrow, B21K Ikpikpuk River, B21K Ikpikpuk River, SPU Mount Spurr, Q20K Shuyak Island, K2AK Kodiak Island, K2AK Kodiak Island, K2AK Kodiak Island, SKT Skwentna, SKT Skwentna, A22K Sinciel Lake, H22K Ishtaliitna Cre, BPAW Bear Paw Mtn, BPAW Bear Paw Mtn, D22K Ayikyak River, D22K Ayikyak River, KTH Kantishna Hill, G22K Bettles, USRK Ussuriysk Ar, E22K Anaktuvuk Pass, E22K Anaktuvuk Pass, MLY Manley, MLY Manley, CNPM China Poot, B22K Teshekpuk Lake, B22K Teshekpuk Lake, SUA Susitna One, TRF Thorofare Moun, CUT Chulitna, BRSE Bradley Lake S, COLD Coldfoot, G23K Bananza Creek, RC01 Rabbit Creek A, H23K Yukon River, H23K Yukon River.

2019 JUN

Table with columns: ID, Name, baz, SNR, P, I, A, M, B, 2019 JUN, 1084. Rows include D23K Nanushuk River, D23K Nanushuk River, I23K Minuto, Yulon-K, O22K Cooper Landing, NEA2 Nanena, NEA2 Nanena, MCK Mckinley, MCK Mckinley, PMR Palmer, E23K Chandalar, E23K Chandalar, C23K Ikilik River, C23K Ikilik River, SEW Seward, SEW Seward, TOLK Toolik Lake Re, TOLK Toolik Lake Re, TOLK Toolik Lake Re, WAT1 Susitna Watana, MDJ Mudanjiang, MDJ Mudanjiang, KNK Knik Glacier, SML Sawmill, E24K Your Creek, E24K Your Creek, COLA College, H24K Noodor Dome, H24K Noodor Dome, PWL Port Wells, D24K Huppy Valley, WAT6 Susitna Watana, F24K Squaw Lake, POKR Poker Plat Res, C24K Franklin Bluff, M23K Glacier View, G24K Hadweencz Riv, G24K Hadweencz Riv, DHY Denali Highway, DHY Denali Highway, BNK Binkian, BNK Binkian, SCM Sheep Creek Mo, HDA Harding Lake, HDA Harding Lake, ILAR Eielson Array, ILAR Eielson Array, P23K Montague Isan, GLI Glacier Island, G25K Bezan Lake, H25L Birch Creek, M24K Tolsona, Glenn, K24K Donnelly Dome, K24K Donnelly Dome, D25K Kavik River, D25K Kavik River, FID Port Fidalgo, PRP Porcupine Dome, PRP Porcupine Dome, MAJO Matsushiro, MAJO Matsushiro, MJAR Matsushiro Ann, MJAR Matsushiro Ann, F25K Christian River, J25K Salcha River, E25K Arctic Village, E25K Arctic Village, KLU Klutina, KLU Klutina, PAX Paxson, Q23K Middleton Isla, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, HARP HAARP, RIDG Independent Ri, RIDG Independent Ri, BMAR Burnt Mountain, C26K Camden Bay, F26K Sheenjek River, G26K Porcupine Rive, SCRK Sand Creek, SCRK Sand Creek, N25K Chitina, Valde, N25K Chitina, Valde, BMRM Bremner River, BMRM Bremner River, BMRM Bremner River.

1084

Table with columns: ID, Name, baz, SNR, P, I, A, M, B, 2019 JUN, 1084. Rows include J26L Joseph Creek, RAGM Ragged Mountai, C27K Jago River, C27K Jago River, MENT Mentasta, I26K Coal Creek Min, L26K Log Cain Wild, KAIM Kayak Island, GLB Gilahina Butte, JGF Kuroka, JGF Kuroka, M26K Nabesna, AK, MCARA McCarthy VSAT, G27K Doyon Strip, K27K Chicken, E27K Coleen River, CRQE Cirque, I27K Kandik River, H27K Steamboat Moun, L27K Beaver Creek, BCAR Beaver Creek, D27M Malcolm River, D27M Malcolm River, D27M Malcolm River, M27K Edge Creek, AK, M27K Edge Creek, AK, F28M Old Crow, F28M Old Crow, GRNC Granite Creek, MESA MESA, YAH Yahi, BVCY Beaver Creek, I28M Miner Creek, E28M Babbage River, E28M Babbage River, CTG Chitina Glacier, CTGM Chitina Glacier, YUK3 Moose Creek, DAWY Dawson, H29M Whitestone, H29M Whitestone, E29M Blow River, E29M Blow River, O28M Mount Upton, O28M Mount Upton, G29M Pine Creek, G29M Pine Creek, I29M Ogilvie Camp, YUK8 Sten Glacier, PINM Pinnacle, M29M Somme Creek, M29M Somme Creek, L29M L29M, L29M L29M, EPYK Eagle Plains, EPYK Eagle Plains, K29M Barlow Dome, YUK4 Talbot Arm, PNL Peninsula, G30M A'oh Zraii Nji, G30M A'oh Zraii Nji, YUK6 Outpost Mounta, I30M Mount Dempster, O29M Mount Kennedy, J30M Hart River, HYT Haines Junctio, HYT Haines Junctio, N30M Aishkik Lake, G31M Satah River, P29M Windy Craggy, KS19 Wonju Array Si, KSRS Korea Array, INK Inuvik, H31M Peel River, F31M Tsiightehic, KSAR Wonju Array Be, KSAR Wonju Array Be, P30M Million Dollar, O30N Mendenhall, PLBC Pleasant Camp, M31M Drury Creek, M31M Drury Creek, Y WHY Whitehorse, WHY Whitehorse, FARO Faro, Yukon, N32M Quiet Lake, JNU Nakatsue, P32M Atlin.

Table with columns: ID, Name, RA, Dec, Mag, Type, etc. Includes entries like R32K Eaglecrest, SIT Sitka, P33M Teslin, etc.

Table with columns: ID, Name, RA, Dec, Mag, Type, etc. Includes entries like SVE Sverdlovsk, DSP Sverdrup, PZH Panzhihua, etc.

Table with columns: ID, Name, RA, Dec, Mag, Type, etc. Includes entries like GERES GERESS Array B, CONA Conrad Osborn, ROSA Rosalia, etc.

18d 19h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like ASAR Alice Springs, MKAR Makani Array, ZALV Zalesov Beam, etc.

NOU 18 18:32:34.0, 39.80S, 174.72E, h127km, MLV4.0/18, North Island, New Zealand
WEL 18 18:32:35.3, 1.1, 40.5, 17.5E, h121km, 9km, M3.9/19, M-L2/12, MLV3.9/19, Error ellipse: s-maj=9.2km

Main table listing station codes and names (e.g., WAZ Wanganui, LREZ Lake Rotokare, etc.) with associated coordinates and parameters.

2019 JUN

Table listing station codes and names (e.g., TGRZ Tauranga, URZ Urewera, etc.) with associated coordinates and parameters.

18C 18:43:32.4, 2.3, 30.35S, 177.53W, h0km, mb3.5/3, mbmtmp3.5/3, Error ellipse: s-maj=64.2km s-min=41.5km

Table listing station codes and names (e.g., ASAR Alice Springs, WRA Warramunga Arr, etc.) with associated coordinates and parameters.

18C 18:19:00:03.0, 1.4, 30.83S, 177.52W, h0km, mb3.7/5, mbtmp3.8/6, Error ellipse: s-maj=37.2km s-min=29.4km

NEIC 18 18:00:04.7, 1.1, 30.95S, 0.03, 177.6W, 0.2, h10km, 2km, mb4.2/7, Error ellipse: s-maj=33.2km s-min=4.2km

18C 18:00:08.6, 0.9, 30.99S, 0.08, 177.8W, 0.2, h35km, n19, s131/21, mb3.9/9, Kermadec Islands

Table listing station codes and names (e.g., RAO Raoul Island, MXZ Matakoaka Point, etc.) with associated coordinates and parameters.

18C 18:19:02:43.0, 1.6, 28.34N, 105.01E, h0km, mb3.5/4, mbtmp3.5/5, ML3.3/1, MS3.9/2, Error ellipse: s-maj=38.9km s-min=26.8km az=64.0, Sichuan

Table listing station codes and names (e.g., SONM Songino Array, KSRS Korea Array, etc.) with associated coordinates and parameters.

1086

Table listing station codes and names (e.g., URZ Urewera, ASAR Alice Springs, etc.) with associated coordinates and parameters.

MEX 18:19:16:21.8, 0.1, 16.41N, 98.14W, h15km, 8km, MD3.7, Near coast of Guerrero

Table listing station codes and names (e.g., PNIG Pinotepa, YONG Yonsonda, etc.) with associated coordinates and parameters.

18C 18:19:25:28.3, 1.0, 28.36N, 104.81E, h0km, mb3.8/7, mbtmp3.8/8, ML3.5/1, Error ellipse: s-maj=32.1km

18C 18:19:25:31.2, 1.2, 28.42N, 104.9E, 0.2, h19km, n8, s051/8, mb3.9/7, Sichuan

Table listing station codes and names (e.g., SONM Songino Array, KSRS Korea Array, etc.) with associated coordinates and parameters.

18C 18:19:28:53.3, 0.1, 38.489N, 160.004, 16.146E, 0.005, h10km, ML2.3/32, 3C, Error ellipse: s-maj=0.5km

18C 18:19:28:53.3, 0.1, 38.489N, 160.004, 16.146E, 0.005, h10km, ML2.3/32, 3C, Error ellipse: s-maj=0.5km

Main table listing station codes and names (e.g., PLAC Placania, JOPP Joppolo, etc.) with associated coordinates and parameters.







Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for H08S3, ILAR, KURB8, ZALV, KBZ, and BRTR.

IDC 18 20:21:07.8 0.3, 30.92S; 177.61W, h0km, mb4, 1/6, mbmp4, 1/6, MS5, 3/1, Error ellipse: s-maj=28.1km s-min=27.4km az=21.0

NEIC 18 20:21:11.5 1.4, 30.98S; 0.08; 177.6W, 0.2, h22km, 7km, mb4, 6/18, Error ellipse: s-maj=29.4km s-min=10.6km az=81.0

ISC 18 20:21:11.4 0.7, 31.18S; 0.05; 177.7W, 0.1, h27km, n69, c179/85, mb4, 3/15, 3C-1D, Kermadec Islands region

Main table for 1089 containing station data for various stations like GLKZ, RAO, RAO, RIZ, etc., with columns for Code, Station Name, Az, Az', Phase ID, Time, Res.

IDC 18 20:25:42.0 1.1, 30.56S; 177.39W, h0km, mb3, 8/5, mbmp3, 8/5, Error ellipse: s-maj=34.6km s-min=32.8km az=31.0

NEIC 18 20:25:45.2 1.2, 30.64S; 0.08; 177.4W, 0.2, h17km, 6km, mb4, 4/8, Error ellipse: s-maj=19.7km s-min=11.0km az=92.0

ISC 18 20:25:46.3 0.9, 30.66S; 0.07; 177.5W, 0.2, h33km, n24, c115/25, mb4, 2/9, Kermadec Islands

Main table for 2019 JUN containing station data for various stations like RAO, RAO, URZ, RTZ, STKA, etc., with columns for Code, Station Name, Az, Az', Phase ID, Time, Res.

Main table for 18d 20h containing station data for various stations like HAZ, TAZ, URZ, MWZ, RTZ, etc., with columns for Code, Station Name, Az, Az', Phase ID, Time, Res.





18d 20h

Table with columns for station ID, name, elevation, and various parameters. Includes stations like J20K Novatina River, KLU Klutina, BMRM Bremen River, etc.

2019 JUN

Table with columns for station ID, name, elevation, and various parameters. Includes stations like O28M Mount Upton, O28M Mount Range, E18K Tukpahleark C, etc.

1092

Table with columns for station ID, name, elevation, and various parameters. Includes stations like ZAK Zakamensk, L27K Alaina River, L27K Beaver Creek, etc.



18d 20h

Table with columns for station name, frequency, power, and other technical details. Includes stations like NRS, MNK, BRG, CLL, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like SRO, BRG, CLL, etc.

1094

Table with columns for station name, frequency, power, and other technical details. Includes stations like CRES, OBKA, RJOB, etc.

Code Station Name ... Time Res ...



1095

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like Xf'an, Wuhan, Chiang Mai Arr, etc.

ADC 18:20:44:33.71.3.43:17S:83.21W, h0km, mb4.0/6, mbmp3.9/8, ML3.4/2, MS4.2/11, Error ellipse: s-maj=33.9km s-min=27.0km az=123.0

NEIC 18:20:44:41.3:2.2, 42.47S:09.825W:0.2, h10km,2km, mb4.8/8, Error ellipse: s-maj=25.2km s-min=12.3km az=249.0

ISC 18:20:44:38.6:1.4, 42.6S:01:182.9W:0.2, h10km, n45, r1540/29, mb4.2/10, MS4.3/9, West Chile Rise

Table with columns: Code, Station Name, Frequency, Power, Mode, and other parameters. Includes stations like COYC, AY03, H03S1, etc.

ATH 18:20:45:28.3, 40:43N:20:96E, h7km, 1km, ML1.3/4, Manual Solution by M. Charalampakis - First Callion: 2019/06/18 20:45:45, This location: 2019/06/19 02:41:00 ML

2019 JUN

are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 2 km

Table with columns: Code, Station Name, Frequency, Power, Mode, and other parameters. Includes stations like KBN, NEST, NEST, etc.

ADC 18:20:56:14.8:1.5, 28:88N:129:86E, h0km, mb3.7/6, mbmp3.6/8, ML2.8/2, Error ellipse: s-maj=43.8km s-min=25.9km az=71.0

JMA 18:20:56:18.7:0.2, 29:3N:0:6:130:6E:0.8, h21km, MV3.6/26, NEAR AMAMI-OISHIMA ISLAND

ISC 18:20:56:18.3:1.4, 29.26N:0:04:130:67E:0:06, h32km, 11km, n29, r125/31, mb3.8/6, Ryukyu Islands

Table with columns: Code, Station Name, Frequency, Power, Mode, and other parameters. Includes stations like JNN, JNN, JNN, etc.

NEIC 18:20:56:27.6:2.5, 36:433N:0:007:121:03W:0.02, h10km,2km, Error ellipse: s-maj=3.2km s-min=2.6km az=288.0

NCEDC 18:20:56:28.0:2.3, 36:44N:0:02:121:02W:0:02, h9km,6km, Mw3.3/5, ML3.0/68(NEIC), Error ellipse: s-maj=2.9km s-min=2.3km az=49.0, Central California

Table with columns: Code, Station Name, Frequency, Power, Mode, and other parameters. Includes stations like LRV, BPIM, BBGB, etc.

18d 20h

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like RAMR, JELB, LCUV, etc.

SJA 18 21:01:30.5 0.6, 21:46S:68:67W, h139km, 4km, ML3.5, MW3.5

GUC 18 21:01:32.0 0.7, 21:47S:68:60W, h132km, 4km, ML3.6

ISC 18 21:01:31.1 1.7, 21:46S:003:68:7W-0.1, h139km, 11km, n26, c0539/45, SC-1D, Chile-Bolivia border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Contains station data for IPOC Station P, San Pedro de A, Humberstone, Diego Aracena, Huaiquique, Chusmiza, Samana, DR, Santiago de lo, Hato Mayor del Rey, Luperon, Miches, Alto Bandera, Santo Domingo, Santo Domingo, San Cristibal, BANI, Presa de Saban, Restauracion, Montecristi, ITESIL, Dajabo, El Espartillar, Polo, Grand Turk, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy.

NEIC 18 21:26:24.4 1.2, 4:78S:0:09:152:87E:0:10, h64km, 8km, mb4.6/25, Error ellipse: s-maj=14.4km s-min=10.8km az=50.0

IDC 18 21:26:24.3 4.5, 4:82S:152:91E, h68km, 41km, mb3.9/10, mbtmp4.2/11, ML2.5/1, Error ellipse: s-maj=24.5km s-min=22.2km az=74.0

ISC 18 21:26:21.8 0.7, 4:79S:0:07:152:95E:0:09, h43km, n46, c114/45, mb4.6/21, New Britain region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Contains station data for Rabaul, MANU, Port Moresby, Fak Fak, Mont Dzumac, Pines Island, Manton Dam, Warramunga Arr, Kunurra, Alice Springs, Alice Springs, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy.

Table with columns: STKA, Stephens Creek, FITZ, Filzroy Crossi, MBWA, Marbla Bara, PSA00, Pilbara Seismi, GIRL, Giralia, MORW, Morawa, MORW, Petropavlovsk, CMAR, Chiang Mai Arr, VANDA, Vanda, OHAK, Old Harbor, J16K, J16K, P19K, Oil Pit, SUA, Susitna One, J20K, Novitna River, CAST, Castle Rocks, SML, Sawmill, IMAR, Indian Mountai, MKAR, Makanchi Array, MLY, Manley, ILAR, Eielson Array, J25K, Salcha River, BCAR, Beaver Creek A, GEAR, Grand Mountai, QSPA, South Pole Qui, BVAR, Borovoye Arr, EKA, Eskdalemuir Arr.

SDD 18 21:33:00.1 2.6, 19:61N:69:96W, h19km, 10km, MD3.4, ML3.7, MW3.7

OSPL 18 21:33:02.1 3.9, 19:54N:70:03W, h0km, 16km, ML3.3

ISC 18 21:32:58.2 0.9, 19:65N:0:03:69:92W:0:03, h25km, 6km, n35, c155/60, 21C-7D, Dominican Republic region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Contains station data for CADR, Cabrera, LONA1, Toro Cenizo, NADR, Nagua, SODR, Sosa Marina 10m, DR08, Loma La Naviza, SMDR, Samana, DR, SC01, Santiago de lo, HATOM, Hato Mayor del Rey, LUDR, Luperon, MIDR, Miches, ABDR, Alto Bandera, SDD, Santo Domingo, SDD, Santo Domingo, LOSC1, San Cristibal, BANI, BANI, SDDR, Presa de Saban, SDDR, Presa de Saban, SDDR, Presa de Saban, REDR, Restauracion, MCDR, Montecristi, LODA1, ITESIL, Dajabo, LODA1, ITESIL, Dajabo, LODA1, El Espartillar, PODR, Polo, PODR, Polo, GRTK, Grand Turk, GRTK, Grand Turk, LOBH, Bahia de las A, CRPR, Cabo Rojo, PR.

Table with columns: CRPR, CRPR, MASC, Masc, MASC, Masc, MASC, Masc, QMBU, Quimbuelo, QMBU, Quimbuelo, NMDO, Nuevo Mundo, NMDO, Nuevo Mundo, NMDO, Nuevo Mundo, GTBY, Guantanamo Bay, GTBY, Guantanamo Bay, RCC, Rio Carpintero, RCC, Rio Carpintero, YAR, Yar, YAR, Yar.

IDC 18 21:48:06.2 1.7, 3:002S:178:09W, h0km, mb4.0/3, mbtmp4.0/3, Error ellipse: s-maj=51.5km s-min=36.5km az=36.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Contains station data for ASAR, Alice Springs, WRA, Warramunga Arr, GSPA, South Pole Qui, FINES, FINESS Array B, HFS, Haffmans.

IDC 18 21:53:58.4 1.0, 13:83N:56:60E, h0km, mb3.7/17, mbtmp3.7/17, ML1.4/1, MS3.4/9, Error ellipse: s-maj=26.5km s-min=18.3km az=30.0

ISC 18 21:54:01.7 1.0, 13:9N:0:2:56:6E:0:1, h20km, n28, c053/20, mb3.8/17, MS3.9, Socotra region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Contains station data for WSAR, Wadi Sarin, PALK, Pallekele, KBZ, Khabz, AAK, Ala-Archa, BRTR, Keskinn Array B, OPO, Ambohitratompo, AKTO, Aktyubinsk, MKAR, Makanchi Array, MKAR, Makanchi Array, KURBB, Kurchatov Arra, CMAR, Chiang Mai Arr, CMAR, Chiang Mai Arr, AKASG, Malin Array Be, OBN, Obninsk, ZALV, Zalevovo Beam, ZALV, Zalevovo Beam, GERES, GERESS Array B, FINES, FINESS Array B, SONM, Sologno Array, TORD, Torodi Arr, HFS, Hagfors, NOA, NORARS Array B, ESCD, Sonseca Array, ARCES, ARCESS Array B, EKA, Eskdalemuir Arr, H01W3, Cape Leeuwijn H, H01W2, Cape Leeuwijn H, H01W1, Cape Leeuwijn H, WRA, Warramunga Arr, ASAR, Alice Springs, PDAR, Pinedale Array, HEL, 18 22:08:30.1 0.2, 67:36N:34:07E, h0km, ML1.4, Explosion, Baltic States-Belarus-Northwestern Russia



18d 23h

Table with columns for station name, elevation, frequency, and signal strength. Includes stations like SAOF Saorge, TURF col de Turini, RORO Rocca Rossa, etc.

2019 JUN

Table with columns for station name, elevation, frequency, and signal strength. Includes stations like ORIF Flassans-sur-I, GORR Gorreto, LPL La Plagne, etc.

1098

Table with columns for station name, elevation, frequency, and signal strength. Includes stations like CHMS Chumysh, USP Oshpenovka, TKM2 Tokmak, etc.







Table with columns for station call letters, frequency, and other technical details. Includes stations like Te Kaha, Puketiti, White Island, etc.

Table with columns for station call letters, frequency, and other technical details. Includes stations like SBA Scott Base, FITZ Fitzroy Crossi, NWAON Narrogin, etc.

Table with columns for station call letters, frequency, and other technical details. Includes stations like QIZ, ESJX, YSS, RPSI, etc.

18d 23h

Table with columns for station code, name, frequency, power, and various signal quality metrics (e.g., S/N, SNR, SNR=14).

2019 JUN

Table with columns for station code, name, frequency, power, and various signal quality metrics (e.g., S/N, SNR, SNR=14).

1102

Table with columns for station code, name, frequency, power, and various signal quality metrics (e.g., S/N, SNR, SNR=14).



Table with columns: PINNC, IAMB, IAMB, 00 02 55.0, and various station names like ODZ, ONTNC, DZM, etc.

Table with columns: KNRA, Kununurra, 51.04 275, P, IAMB, P, IAMB, 00 08 07.4 +0.1, and various station names like KNRA, KMBL, KLBRR, etc.

Table with columns: PSI, Prapat, 85.78 276, LR, LR, 00 50 45.4, and various station names like PSI, PFI, PEL, etc.



Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ASAR Alice Springs, WRA Warramunga Arr, QSPA South Pole Qui, and FINES FINES Array B.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ASAR Alice Springs, WRA Warramunga Arr, QSPA South Pole Qui, and FINES FINES Array B.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for RAO Raoul Island, MXZ Matakaoka Point, URZ Urewera, and RTZ Ruatuhuna.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for CTAO Charters Tower, STKA Stephens Creek, BBOO Buckleboo, and ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for WRA Warramunga Arr, WBO Warramunga Arr, QSPA South Pole Qui, and QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for SNAA Sanae, MKAR Makanchi Array, KURBB Kurchatov Arra, and BVAR Borovoye Array.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for WRA Warramunga Arr, WBO Warramunga Arr, QSPA South Pole Qui, and QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, and ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for WRA Warramunga Arr, WBO Warramunga Arr, QSPA South Pole Qui, and QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for KURBB Kurchatov Arra, BVAR Borovoye Array, and AVAR ARCESS Array B.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for NEIC 1900:30:53.4, 1.7, 10:14S:0:09:151.5E:0:1, h10km, mb3.9/3, mb4.3/8.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for PMG Port Moresby, COEN Coen, EIDS Eidsvold, and WRR Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ASAR Alice Springs, KNRA Kununurra, STKA Stephens Creek, and STKA Stephens Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for SBA Scott Base, SONMG Songoing Array, MKAR Makanchi Array, and ILAR Elieison Array.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for FINES FINES Array B, BDFB Brasilarr, KURS Kura Arra, and TORD Torodi Ar. Bea.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for RSNC 1900:31:51.2, 0.5, 9N4.4x71W2, h10km, mb2.3, mb4.2, ML2.3, MLV3.1.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for SDV Santo Domingo, SOCV Socops, CAPV Capacho, and PAMP Pamplona, Colo.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, and ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for STKA Stephens Creek, BBOO Buckleboo, ASAR Alice Springs, and ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for WBO Warramunga Arr, WBO Warramunga Arr, SBA Scott Base, and SBA Scott Base.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for SNAA Sanae, H03S2 Juan Fernandez, H03S1 Juan Fernandez, and H03S3 Juan Fernandez.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ISK 1900:45:30.6, 39:58N:38:60E, h5km, ML4.3/23, ID 1900:45:30.6, 39:55N:38:61E, h10km, mb3.9/16.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for ILIC Ilion-Erzincan, ARPR Arapgir-MALATY, ERZC Erzincan, and SUSE Susehri.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for KURT Kurat, ALUC Aluc, ALUC Aluc, and EUZM Uzumlu.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for KURT Kurat, ALUC Aluc, ALUC Aluc, and EUZM Uzumlu.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for BAYB BAYBURT, BAYB BAYBURT, BAYB BAYBURT, and BAYB BAYBURT.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes entries for BNGB Bingol, KTOT Tokat, AZEY Adyaman-Merk, and AZEY Adyaman-Merk.





19d 1h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like MKAR Makanchi Array, ESDC Sonseca Array, ZAAO Zalesovo Array, etc.

WEL 19 00:48:58.6-1.1, 42.9S, 173E, h76km, M3.2/25, ML3.3/6, MLV3.2/25, Error ellipse: s-maj=7.6km s-min=6.1km az=33.8, confirmed, South Island

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like MATW Matariki Wadsw, MRNZ Matariki Terra, THZ Topohouse, etc.

WEL 19 00:49:22.3-1.2, 40.0S, 176E, h42km, M1.8/10, ML1.9/7, MLV1.8/10, Error ellipse: s-maj=5.7km s-min=4.9km az=12.0, confirmed, North Island

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like DVHZ Dannevirke, WPHZ Waipukurua, TSZ Takapari Road, etc.

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Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like WDP5 Woodville Poli, ANWZ Angora Road, PRHZ Porangahua, etc.

IDC 19 00:52:04.0-1.8, 30.95S, 177.7W, h0km, mb4.0/3, mbmp3.9/4, ML3.4/1, MS3.8/2, Error ellipse: s-maj=44.0km s-min=37.7km az=69.0

NEIC 19 00:52:05.7-2.5, 31.0S, 0.1x177.52W, h10km, 2km, mb4.5/7, Error ellipse: s-maj=19.5km s-min=10.1km az=1.0

ISC 19 00:52:08.2-1.2, 31.17S, 0.1x177.7W, h2, h27km, n20, r195/19, mb4.4/7, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like RAO Raoul Island, URZ Urewera, RTZ Ruatuhuna, etc.

IDC 19 00:56:36.1-2.3, 30.89S, 177.74W, h0km, mb3.7/3, mbmp4.2/9, ML3.7/2, MS3.9/7, Error ellipse: s-maj=65.4km s-min=42.1km az=40.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 19 01:05:56.2-0.7, 31.11S, 177.50W, h0km, mb4.2/7, mbmp4.2/9, ML3.7/2, MS3.9/7, Error ellipse: s-maj=26.0km s-min=24.6km az=124.0

NEIC 19 01:05:57.2-2.2, 31.0S, 0.1x177.7W, h10km, 1km, mb4.7/11, Error ellipse: s-maj=31.5km s-min=17.8km az=82.0

ISC 19 01:05:56.2-0.6, 31.20S, 0.05x177.7W, h0.1, h10km, n92, r191/83, mb4.4/14, MS3.9/5, 3C, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, RIZ Raoul Island, etc.

IDC 19 01:11:22.2-2.1, 30.46S, 177.93W, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=60.8km s-min=38.5km az=45.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 19 01:13:51.4-3.1, 31.36S, 177.47W, h0km, mb3.7/2, mbmp3.8/3, Error ellipse: s-maj=76.9km s-min=37.3km az=116.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like URZ Urewera, WRA Warramunga Arr, etc.

1108

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ANWZ Angora Road, BFZ Birch Farm, MRZ Mangatainoka R, etc.

IDC 19 01:13:51.4-3.1, 31.36S, 177.47W, h0km, mb3.7/2, mbmp3.8/3, Error ellipse: s-maj=76.9km s-min=37.3km az=116.0, Kermadec Islands region

IDC 19 01:13:51.4-3.1, 31.36S, 177.47W, h0km, mb3.7/2, mbmp3.8/3, Error ellipse: s-maj=76.9km s-min=37.3km az=116.0, Kermadec Islands region

IDC 19 01:13:51.4-3.1, 31.36S, 177.47W, h0km, mb3.7/2, mbmp3.8/3, Error ellipse: s-maj=76.9km s-min=37.3km az=116.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ANWZ Angora Road, BFZ Birch Farm, MRZ Mangatainoka R, etc.

ASAR Alice Springs 43.52 268 P P 01 21 57.6 +0.7
WRA Warramunga Arr 44.59 273 P P 01 22 05.1 -0.5
FINES FINES Array B 146.20 340 PKPbc PKPpdf 01 33 31.9 0.0

IDC 19 01:18:17.4:3.1,31.425x177.56W,h0km,mb3.7/2,
mbt18.3/3,ML3.1/1,Error ellipse: s-maj=74.9km
s-min=37.0km az=117.0,Kermadec Islands region

Code Station Name Az AZZ Phase ID Time Res ISC
URZ Urewera 8.11 211 Op Pn 01 20 16.0 -0.4
ASAR Alice Springs 43.44 268 P P 01 26 22.4 0.0
WRA Warramunga Arr 44.52 273 P P 01 26 30.9 -0.1

NEIC 19 01:22:03.0:3.0.6,19.23N,0.03:155.480W,0.008,
h38km,4km,Error ellipse: s-maj=3.7km s-min=0.9km
az=186.0

HVO 19 01:22:04.0:4.0.7,19.20N,0.03:155.46W,0.02,4.37km,3km,
ML2.7/3,ML2.1/27(NEIC),Error ellipse: s-maj=4.0km
s-min=2.9km az=179.0,Hawaiian Islands

Code Station Name Az AZZ Phase ID Time Res ISC
HTC Hotu Caves 0.07 57 Op Pn 01 22 10.2 -0.4
HPO Honouape 0.14 219 Pn Pn 01 22 10.5 -5.5
KHU Kahuku 0.15 288 Pn Pn 01 22 10.5 -12

IDC 19 01:34:03.5:1.6,30.82Sx177.53W,h0km,mb3.7/3,
mbt18.3/3,Error ellipse: s-maj=48.3km s-min=42.0km
az=31.0,Kermadec Islands

Code Station Name Az AZZ Phase ID Time Res ISC
URZ Urewera 8.64 209 Op Pn 01 37 37.3 -1.0
ASAR Alice Springs 43.49 267 P P 01 42 08.4 -0.5
WRA Warramunga Arr 44.52 272 P P 01 42 17.2 +0.1

NADR Nagua 0.74 341 ePg Pn 01 35 16.5 -1.0
SC01 Santiago de lo 0.80 329 i P Pn 01 35 17.3 -0.9
HATOM Hato Mayor del 0.86 871 ePg Pn 01 35 18.3 -0.5

NEIC 19 01:58:28.2:1.4,18.78N,0.1x145.3E:0.3,h198km,6km,
mb4.2/43,Error ellipse: s-maj=42.6km s-min=8.7km
bz=108.0

IDC 19 01:58:33.6:15.0,18.69N,145.50E,h261km,151km,
mb3.3/11,mbt16.4/11,MS3.2/1,Error ellipse:
s-maj=28.3km s-min=22.6km az=57.0

ISC 19 01:58:32.3:0.7,18.68N,0.1x145.4E:0.2,h250km,n62,
e0.93/61,mb4.1/34,Mariana Islands

Code Station Name Az AZZ Phase ID Time Res ISC
MTN Mantion Dam 34.27 205 Op Pn 01 02 04.5 +0.3
KNRA Kunurra 37.80 207 P P 02 05 24.5 -0.4
WBO Warramunga Arr 39.63 196 P P 02 05 40.7 +0.6

ATKA Atka Island 46.02 34 P P 02 06 31.2 +0.4
UNV Unalaska Valle 50.89 35 P P 02 07 07.7 -0.2

NEIC 19 02:31:46.7:1.7,15.30N,0.08:94.72W,0.04,h35km,2km,
mb4.0/24,MD4.3/98(MEX),Error ellipse: s-maj=13.2km
s-min=5.7km az=185.0

GCG 19 02:31:46.0:2.1,15.32N,94.73W,h35km,999km,MD4.6,
ML4.0

MEX 19 02:31:47.5:0.9,15.35N,94.66W,h17km,11km,MD4.3,
CATAC 19 02:31:47.5:1.9,16.16N,11.9:95W,h28km,18km,MA.5/7,
mb4.7/4,mb5.8/3,MLv4.4/7,Mw(MB)5.4/3,Error ellipse:
s-maj=25.0km s-min=6.2km az=12.6,confirmed

ISC 19 02:31:46.9:0.9,15.33N,0.05:94.68W,0.03,h40km,n126,
e3.02/184,Near coast of Oaxaca

Code Station Name Az AZZ Phase ID Time Res ISC
C19K Kurchatov Arr 61.21 318 P P 02 08 19.9 -0.9
D20K Etivivk River 61.40 21 P P 02 08 22.7 +0.9
B20K Meade River 61.76 19 P P 02 08 25.6 +1.6

PDAR Pinedale Array 88.09 45 P P 02 10 54.1 -0.9
U15A North Rim 88.60 52 P P 02 10 59.1 +1.4
BO02 Sierra Bellavi 144.10 124 PKPpdf PKPpdf 02 17 39.7 -0.7

SJA 19 01:58:59.2:0.5,27.48S,64.23W,h19km,3km,ML4.0,
HW3.9,Santiago del Estero Province

Code Station Name Az AZZ Phase ID Time Res ISC
GUSE Guasayan 0.68 233 eP Pn 01 59 12.7 0.0
AHML Horco Molle 1.21 305 eP Pn 01 59 27.6 +5.1

ACLC CERRO LA CRUZ 3.08 230 eP Pn 01 59 49.5 +2.4

ACHE Chepes 4.24 210 eP Pn 02 00 06.9 +3.9

AGUA GUANDACOL 4.25 241 eP Pn 02 00 05.3 +4.4

ACCO Cerro Coronel 5.25 233 eP Pn 02 00 20.0 +3.1

AROD Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

AGUA Cuesta del Vie 5.06 237 i P Pn 02 00 17.9 +3.7

MRA San Martin 5.09 194 eP Pn 02 00 19.2 +4.6

ACCO Rodeo 5.32 239 eP Pn 02 00 22.2 +4.2

ACAN Cantantal 5.42 208 eSg Sb 02 01 41.2 +3.9

19d 2h

STG8	El Palmer, Qui	3.34 105	i P	Pn	02 32 32.7 -4.0
STG8					02 32 34.5
STGO	comp=E,307nm,0.3s				
STGO	El Palmer, Qui	3.35 105	i P	Pn	02 32 32.8 -4.1
STGO					02 32 13.2
PNIG	comp=E,495nm,0.2s				
PNIG	Pinotepa	3.48 288	eS	Pn	02 32 38.9 +0.3
PNIG					02 33 14.3 -4.3
PNIG	Pinotepa	3.48 288	eS	Pn	02 32 38.9 +0.3
PNIG					02 33 14.3 -4.3
PNIG	Pinotepa	3.48 288	eS	Pn	02 32 38.9 +0.3
PNIG					02 33 14.3 -4.3
TXIG	TLaxiaco	3.53 303	eP	Pn	02 32 41.0 +1.6
TXIG					02 32 15.3 -4.8
TXIG	TLaxiaco	3.53 303	eP	Pn	02 32 41.0 +1.6
TXIG					02 32 15.3 -4.8
HLIG	Huajuapán de L	3.89 310	eS	Pn	02 32 46.2 +1.9
HLIG					02 32 26.2 +2.9
HLIG	Huajuapán de L	3.89 310	eS	Pn	02 32 46.2 +1.9
HLIG					02 32 26.2 +2.9
TPIG	Tehuacán	4.00 321	eP	Pn	02 32 45.9 0.0
TPIG					02 33 31.4 -0.3
TPIG	Tehuacán	4.00 321	eP	Pn	02 32 45.9 0.0
TPIG					02 33 31.4 -0.3
FTIG	Fresnillo de T	4.19 308	eP	Pn	02 32 50.5 +2.1
FTIG					02 33 34.0 -2.1
FTIG	Fresnillo de T	4.19 308	eP	Pn	02 32 50.5 +2.1
FTIG					02 33 34.0 -2.1
MGIG	Malinaltepec	4.24 297	eS	Pn	02 32 51.2 +2.0
MGIG					02 32 51.2 +2.0
MGIG	Malinaltepec	4.24 297	eS	Pn	02 32 51.2 +2.0
MGIG					02 32 51.2 +2.0
TLIG	Tlaxiaco	4.34 301	eP	Pn	02 32 52.6 +2.1
TLIG					02 32 52.6 +2.1
TLIG	Tlaxiaco	4.34 301	eP	Pn	02 32 52.6 +2.1
TLIG					02 32 52.6 +2.1
JAUJ	Jalcomulco	4.50 334	eS	Pn	02 32 49.8 -2.8
JAUJ					02 32 49.8 -2.8
JAUJ	Jalcomulco	4.50 334	eS	Pn	02 32 49.8 -2.8
JAUJ					02 32 49.8 -2.8
CRIG	Cruz Grande	4.50 289	eS	Pn	02 32 53.6 +1.0
CRIG					02 32 38.5 -5.2
CRIG	Cruz Grande	4.50 289	eS	Pn	02 32 53.6 +1.0
CRIG					02 32 38.5 -5.2
FAME	Alcaldía de Sa	4.75 108	eP	Pn	02 32 57.9 +1.8
FAME					02 32 57.9 +1.8
FAME	Alcaldía de Sa	4.75 108	eP	Pn	02 32 57.9 +1.8
FAME					02 32 57.9 +1.8
PETF	Flores	4.89 71	eP	Pn	02 32 57.9 +1.8
PETF					02 32 57.9 +1.8
PETF	Flores	4.89 71	eP	Pn	02 32 57.9 +1.8
PETF					02 32 57.9 +1.8
NUBE	Las Nubes	4.95 106	eP	Pn	02 32 59.9 +1.0
NUBE					02 33 01.3 +1.0
NUBE	Las Nubes	4.95 106	eP	Pn	02 32 59.9 +1.0
NUBE					02 33 01.3 +1.0
DAIG	Los Arroyos	5.06 290	eS	Pn	02 33 01.3 +1.0
DAIG					02 33 49.9 -7.7
DAIG	Los Arroyos	5.06 290	eS	Pn	02 33 01.3 +1.0
DAIG					02 33 49.9 -7.7
PCVC	Popocatepetl	5.19 315	eS	Pn	02 33 49.9 -7.7
PCVC					02 33 49.9 -7.7
PCVC	Popocatepetl	5.19 315	eS	Pn	02 33 49.9 -7.7
PCVC					02 33 49.9 -7.7
ESQJ	Esquipulas	5.22 98	eP	Pn	02 33 03.6 +1.1
ESQJ					02 33 03.6 +1.1
ESQJ	Esquipulas	5.22 98	eP	Pn	02 33 03.6 +1.1
ESQJ					02 33 03.6 +1.1
MTOS	Montecristo	5.23 100	eP	Pn	02 33 03.6 +1.1
MTOS					02 33 03.6 +1.1
MTOS	Montecristo	5.23 100	eP	Pn	02 33 03.6 +1.1
MTOS					02 33 03.6 +1.1
PBXN	Popocatepetl	5.28 314	eS	Pn	02 33 07.9 +4.2
PBXN					02 33 07.9 +4.2
PBXN	Popocatepetl	5.28 314	eS	Pn	02 33 07.9 +4.2
PBXN					02 33 07.9 +4.2
PBPB	Popocatepetl	5.28 315	eS	Pn	02 33 08.8
PBPB					02 34 00.5 -3.1
PBPB	Popocatepetl	5.28 315	eS	Pn	02 33 08.8
PBPB					02 34 00.5 -3.1
PPM	Popocatepetl	5.29 315	eS	Pn	02 33 06.5 +2.6
PPM					02 33 06.5 +2.6
PPM	Popocatepetl	5.29 315	eS	Pn	02 33 06.5 +2.6
PPM					02 33 06.5 +2.6
PPIG	Popocatepetl	5.29 315	eS	Pn	02 33 06.5 +2.6
PPIG					02 33 06.5 +2.6
PPIG	Popocatepetl	5.29 315	eS	Pn	02 33 06.5 +2.6
PPIG					02 33 06.5 +2.6
MEIG	Mezcala	5.39 299	eS	Pn	02 33 07.8 +2.9
MEIG					02 34 02.1 -3.7
MEIG	Mezcala	5.39 299	eS	Pn	02 33 07.8 +2.9
MEIG					02 34 02.1 -3.7
YAIY	Yautepec	5.47 311	eP	Pn	02 33 08.9 +2.9
YAIY					02 34 04.1 -3.8
YAIY	Yautepec	5.47 311	eP	Pn	02 33 08.9 +2.9
YAIY					02 34 04.1 -3.8
YAIY	Yautepec	5.47 311	eP	Pn	02 33 08.9 +2.9
YAIY					02 34 04.1 -3.8
PLIG	Platanillo	5.53 304	eS	Pn	02 33 09.5 +2.7
PLIG					02 34 01.9 -7.3
PLIG	Platanillo	5.53 304	eS	Pn	02 33 09.5 +2.7
PLIG					02 34 01.9 -7.3
CXUV	Coxquihui	5.56 331	eP	Pn	02 33 06.0 -1.1
CXUV					02 33 06.0 -1.1
CXUV	Coxquihui	5.56 331	eP	Pn	02 33 06.0 -1.1
CXUV					02 33 06.0 -1.1
UDBS	Universidad Do	5.59 106	eP	Pn	02 33 27.0 +1.9
UDBS					02 33 09.3 +1.2
UDBS	Universidad Do	5.59 106	eP	Pn	02 33 27.0 +1.9
UDBS					02 33 09.3 +1.2
CAIG	El Cayaco	5.63 288	eS	Pn	02 33 09.3 +1.2
CAIG					02 34 04.6 -7.0
CAIG	El Cayaco	5.63 288	eS	Pn	02 33 09.3 +1.2
CAIG					02 34 04.6 -7.0
CAIG	El Cayaco	5.63 288	eS	Pn	02 33 09.3 +1.2
CAIG					02 34 04.6 -7.0
AOVM	Tlapan	5.92 312	eS	Pn	02 33 12.6 -6.6
AOVM					02 34 12.6 -6.6
AOVM	Tlapan	5.92 312	eS	Pn	02 33 12.6 -6.6
AOVM					02 34 12.6 -6.6
AOVM	Tlapan	5.92 312	eS	Pn	02 33 12.6 -6.6
AOVM					02 34 12.6 -6.6
SCLA	Alcaldía de Sa	5.99 105	eP	Pn	02 33 20.2 +7.1
SCLA					02 33 18.4 +2.9
SCLA	Alcaldía de Sa	5.99 105	eP	Pn	02 33 20.2 +7.1
SCLA					02 33 18.4 +2.9
ARIG	Puente Sto Nin	6.17 299	eP	Pn	02 33 22.1 +2.9
ARIG					02 33 22.1 +2.9
ARIG	Puente Sto Nin	6.17 299	eP	Pn	02 33 22.1 +2.9
ARIG					02 33 22.1 +2.9
RANC	El Ranchito	6.47 106	eP	Pn	02 33 22.1 +2.9
RANC					02 33 44.6 +2.5
RANC	El Ranchito	6.47 106	eP	Pn	02 33 22.1 +2.9
RANC					02 33 44.6 +2.5
ZIIG	Zihuatlano	6.89 290	eP	Pn	02 33 27.2 +4.2
ZIIG					02 33 31.3 +0.5
ZIIG	Zihuatlano	6.89 290	eP	Pn	02 33 27.2 +4.2
ZIIG					02 33 31.3 +0.5
TGUH	Tequicuilpa,Un	7.28 99	eP	Pn	02 33 26.6 -4.5
TGUH					02 34 45.1 -7.7
TGUH	Tequicuilpa,Un	7.28 99	eP	Pn	02 33 26.6 -4.5
TGUH					02 34 45.1 -7.7
MYIG	Meridia	7.31 39	eP	Pn	02 33 26.6 -4.5
MYIG					02 33 47.7 +2.8
MYIG	Meridia	7.31 39	eP	Pn	02 33 26.6 -4.5
MYIG					02 33 47.7 +2.8
MOIG	Morelia	7.57 306	eS	Pn	02 33 47.7 +2.8
MOIG					02 33 59.3 +7.9
MOIG	Morelia	7.57 306	eS	Pn	02 33 47.7 +2.8
MOIG					02 33 59.3 +7.9
TEIG	Tepeich	7.80 50	eP	Pn	02 34 05.6 +4.5
TEIG					02 35 46.5 +0.1
TEIG	Tepeich	7.80 50	eP	Pn	02 34 05.6 +4.5
TEIG					02 35 46.5 +0.1
MNGA	Volcan de Coli	9.47 297	eS	Pn	02 34 06.5 +5.2
MNGA					02 35 51.2 +4.3
MNGA	Volcan de Coli	9.47 297	eS	Pn	02 34 06.5 +5.2
MNGA					02 35 51.2 +4.3
INCO	Volcano de Col	9.51 297	eS	Pn	02 34 06.5 +5.2
INCO					02 35 51.6 +4.2
INCO	Volcano de Col	9.51 297	eS	Pn	02 34 06.5 +5.2
INCO					02 35 51.6 +4.2
SOMAC	Campo Tres	9.65 296	eS	Pn	02 34 07.9 +4.5
SOMAC					02 35 47.4 -3.2
SOMAC	Campo Tres	9.65 296	eS	Pn	02 34 07.9 +4.5
SOMAC					02 35 47.4 -3.2
CEGR	Emiliano Zapat	10.37 294	eP	Pn	02 34 16.3 +3.2
CEGR					02 34 15.9 +0.8
CEGR	Emiliano Zapat	10.37 294	eP	Pn	02 34 16.3 +3.2
CEGR					02 34 15.9 +0.8
CIHU	Zacatecas	10.50 316	eP	Pn	02 34 15.9 +0.8
CIHU					02 34 57.9 -0.2
CIHU	Zacatecas	10.50 316	eP	Pn	02 34 15.9 +0.8
CIHU					02 34 57.9 -0.2
833A	Chaparral WMA	13.65 342	eP	Pn	02 35 12.1 -0.8
833A					02 35 24.0 -0.1
833A	Chaparral WMA	13.65 342	eP	Pn	02 35 12.1 -0.8
833A					02 35 24.0 -0.1
HND0	Hondo	14.75 344	eP	Pn	02 35 26.6 +0.1
HND0					02 35 31.9 0.0
HND0	Hondo	14.75 344	eP	Pn	02 35 26.6 +0.1
HND0					02 35 31.9 0.0
435B	Jarrell	15.61 351	eP	Pn	02 35 35.5 +1.8
435B					02 35 37.6 +0.8
435B	Jarrell	15.61 351	eP	Pn	02 35 35.5 +1.8
435B					02 35 37.6 +0.8
435B	Jarrell	15.61 351	eP	Pn	02 35 35.5 +1.8
435B					02 35 37.6 +0.8
JUNCTION	Junction City	15.79 344	eP	Pn	02 35 46.3
JUNCTION					02 35 37.8 -1.1
JUNCTION	Junction City	15.79 344	eP	Pn	02 35 46.3
JUNCTION					02 35 37.8 -1.1
TXAR	Lajitas Array	16.22 331	eP	Pn	02 35 43.2 +0.3
TXAR					

Table with columns: BRTR, Keskin Array B, 76.09 308 P, P, 02 47 33.7 -0.2, etc.

IDC 19 02:45:19.0,0.9,2:59S:141.35E, h0km, mb3.8/6, mbtmp3.8/7, ML4.1/1, MS3.9/1, Error ellipse: s-maj=23.0km s-min=17.3km az=12.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 19 02:55:29.2,1.3,1:03S:177.74W, h0km, mb3.7/3, mbtmp3.7/4, ML3.0/1, MS3.2/1, Error ellipse: s-maj=50.3km s-min=38.5km az=67.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

DJA 19 03:09:27.5,0.6,10:5S:111.1E, h10km, M3.9/9, mB6.2/1, mb4.3/2, ML3.7/9, Mw(mB)5.9/1, MwMwp6.3/1, Mwp6.3/1, South of Java

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 19 03:12:47.8,3.2,3:135S:177.07W, h0km, mb3.6/2, mbtmp3.6/3, ML2.9/1, Error ellipse: s-maj=78.4km s-min=37.7km az=118.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 19 04:15:54.0,2.0,6:74S:128.82E, h0km, mb3.8/1, mbtmp3.7/3, ML3.9/2, Error ellipse: s-maj=114.9km s-min=31.2km az=67.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

0.3nm,0.3s FINES FINESS Array B 145.82 340 PKPbc PKPdf 03 45 05.2 -0.4

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

WEL 19 03:45:12.2,0.6,33:54:17:9W, h33km, M4.3/13, mb04.8/6, ML4.7/18, MLv4.4/13, Mw(mB)4.0/6, Error ellipse: s-maj=12.1km s-min=3.7km az=110.2, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

ATH 19 04:03:56.1,40:03N:21:43E, h16km, 3km, ML2.5/12, Manual Solution by A. Plessa First location: 2019/06/19 04:04:47, This location: 2019/06/19 05:10:30 ML

AMPITUDES ARE EXPRESSED IN MICROMETERS, ALL DISTANCES ARE EXPRESSED IN DEGREES LATITUDE UNCERTAINTY: 0 km; LONGITUDE UNCERTAINTY: 0.1 km

THE 19 04:03:57.2,0.8,40:03N:02:21:42E, h12km, 6km, n27, r141/35, Greece

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 19 04:15:54.0,2.0,6:74S:128.82E, h0km, mb3.8/1, mbtmp3.7/3, ML3.9/2, Error ellipse: s-maj=114.9km s-min=31.2km az=67.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

IDC 19 04:29:20.3,2.9,33:96S:178:58W, h0km, mb4.1/2, mbtmp4.1/3, ML4.1/1, MS3.4/3, Error ellipse: s-maj=70.3km s-min=35.3km az=123.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

WEL 19 04:29:25.0,0.6,34:5:10:17:9W, h33km, M4.1/14, mb4.7/7, ML4.5/14, MLv4.3/14, Mw(mB)3.9/7, Error ellipse: s-maj=32.9km s-min=3.8km az=113.1, confirmed

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.

KRNEL 19 04:50:33.9,0.1,42:11N:77:76E, h21km, mb3.1 SOME 19 04:50:35.0,0.7,42:22N:77:76E, h0km, mb3.2, mpv3.5, NINC 19 04:50:35.0,0.7,42:22N:77:76E, h0km, mb3.2, mpv3.5, Error ellipse: s-maj=5.3km s-min=2.6km az=172.0

IDC 19 04:50:34.1,1.1,42:12N:03:77:55E, h4km, 10km, n50, r094/90, 27C-18D, Lake Issyk-Kul region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, etc.







Table with columns: NUBE, Las Nubes, 2.98 319, eP, Pn, 05 12 24.9 +1.3, 0.5nm, 0.5s, baz=37, slow=26

SJA 19 05:17:04.1+0.8, 21.42Sx70.61W, h40km, 999km, ML3.6, MW3.7

GUC 19 05:17:06.7-0.9, 21.41Sx70.53W, h50km, 7km, ML3.7

ISC 19 05:17:04.6+1.5, 21.42Sx70.63W, h0.06, h25km, 14km, n25, o0563/48, 3C-6D, Near coast of northern Chile

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

IDC 19 05:27:24.5-7.5, 30.22Sx177.87W, h0km, mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=307.1km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

NNC 19 05:28:58.0+4.1, 53.45N, 87.87E, h0km, mb3.0, mpv2.7, Error ellipse: s-maj=32.6km, s-min=14.9km, az=64.0, Suspected Mining explosion.

ASRS 19 05:28:53.0+1.1, 53.60N, 87.97E, h0km, M2.9, 3C-8D, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

ASRS 19 05:29:47.0+0.8, 55.08N, 88.95E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

IDC 19 05:31:30.9-5.1, 12.82Sx166.92E, h222km, 48km, mb3.4/7, mbtmp3.9/8, MS3.6/1, Error ellipse: s-maj=33.7km, s-min=23.1km, az=159.0

NOU 19 05:31:30.7, 13.05S, 165.75E, h9km, MLV4.5/7, Vanuatu Islands

ISC 19 05:31:28.7-0.8, 12.74Sx108.166E, 0.2, h200km, n17, o1875/16, mb3.7/7, Santa Cruz Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

NEIC 19 05:47:21.8+0.7, 31.639N, 0.006, 104.58W, 0.01, h5km, 1km, mb\_Lg3.0/126, ML3.0/5, ML3.2/60, Error ellipse: s-maj=2.8km, s-min=1.9km, az=39.0

TXNET 19 05:47:21.4, 31.7N, 0.9, 10.5W, h6km, 2km, ML3.3/17, Error ellipse: s-maj=1.7km, s-min=1.3km, az=57.8, final

NEIC 19 05:47:21.4+0.7, 31.65N, 0.01, 104.58W, 0.01, h6km, 2km, Error ellipse: s-maj=1.9km, s-min=1.8km, az=156.0

ISC 19 05:47:21.6+1.1, 31.62N, 0.02, 104.56W, 0.02, h2km, 10km, n125, o1816/138, 2C, Western Texas

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Rows include RAOU Raoul Island, HAZ Puketiti, RUGZ Rukukumara Rang, etc.

IDC 19 05:56:00.72.2.1.0.16Sx161.36E, h101km,18km,mb3.5/6, mbmp4.0/7, Error ellipse: s-maj=28.5km s-min=20.5km az=80.0

NEIC 19 05:56:00.5.1.7.10.20S:0.10x161.33E:0.09, h88km,7km, mb4.3/14, Error ellipse: s-maj=14.9km s-min=11.1km az=212.0

NOU 19 05:56:01.0.10.27S:161.41E, h44km,MLV4.9/16, Solomon Islands

ISC 19 05:55:59.9.0.6.10.228S:0.06x161.46E:0.06, h100km, n47.0, 191/43, mb4.0/12, Bougainville-Solomon Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Rows include HURO Huro Makira, ALEG Aligege Malai, HNR Honiara, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Rows include EIDS Eidsvold, WRB Warramunga Arr, WBO Warramunga Arr, etc.

IDC 19 06:01:34.1.1.0.31.80S:177.72W, h0km, mb4.3/6, mbmp4.2/8, ML3.5/2, Error ellipse: s-maj=29.1km s-min=23.4km az=72.0

ISC 19 06:01:34.9.0.9.31.72S:0.07x177.8W:0.2, h10km, n49.0, 292/63, mb4.0/3.6, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Rows include GLK Green Lake, RIZ Raoul Island, MXZ Matakaoa Point, etc.

NOU 19 06:03:40.8.2.1.75S:173.62W, h5km, mb5.2/48, Tonga Islands
MOS 19 06:03:41.8.1.4.21.40S:174.14W, h10km, mb5.2/22, Error ellipse: s-maj=12.3km s-min=10.8km az=67.6
NEIC 19 06:03:42.7.2.2.21.47S:0.08x173.68W:0.06, h10km, 1km, mb5.1/143, Error ellipse: s-maj=15.0km s-min=6.0km az=207.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Rows include NIUE Niue, NIUE Niue, NIUE Niue, etc.

AS31	Alice Springs	48.21 257	P	P	06 12 20.5	-3.2
ASAR	Alice Springs	48.21 257	P	P	06 12 21.0	-2.7
ASAR	Alice Springs	48.21 257	P	P	06 12 20.5	-3.1
ASAR	comp=Z,2.4nm,0.9s,baz=91,slo=2.1,SNR=81		PcP	PcP	06 13 51.9	+1.0
ASAR	comp=Z,2.1nm,0.8s,baz=98,slo=3.3,SNR=1.4		S		06 19 12.2	-1.1
ASAR	comp=Z,2.9nm,1.1s,baz=94,slo=16,SNR=12		LR	LR	06 31 50.5	
ASAR	comp=Z,1.88nm,18.3s,baz=92,slo=35		LR	LR		
ASAR	comp=Z,2.4nm,0.9s		LR	LR		
ASAR	Alice Springs	48.21 257	P	P	06 12 21.0	-2.7
WR8	Warramunga Arr	48.29 262	I	I	06 12 22.0	
WB0	Warramunga Arr	48.43 262	I	I	06 12 27.2	
WRAB	Tennant Creek	48.43 262	P	P	06 12 22.1	-3.3
WRAB	Tennant Creek	48.43 262	P	P	06 12 23.0	
WRAB	Tennant Creek	48.43 262	P	P	06 12 22.1	-3.3
WRAB	comp=Z,2.8nm,1.0s		pmax	pmax		
WRA	Warramunga Arr	48.44 262	P	P	06 12 21.4	-4.1
WRA	Warramunga Arr	48.44 262	P	P	06 12 21.8	-3.6
WRA	comp=Z,1.9nm,0.9s,baz=98,slo=7.6,SNR=39		PcP	PcP	06 13 51.2	-0.6
WRA	comp=Z,2.9nm,0.9s,baz=95,slo=3.4,SNR=2.1		P	P		
WRA	comp=Z,1.9nm,0.9s		pmax	pmax		
WRA	Warramunga Arr	48.44 262	P	P	06 12 21.4	-4.1
WRA	comp=Z,2.0nm,1.0s		pmax	pmax		
FORT	Warakurna	52.61 247	P	P	06 12 56.0	-0.8
WRKA	Warakurna	52.61 247	P	P	06 12 57.2	-3.1
GUMO	Guam	53.55 307	LR	LR	06 35 09.2	
FITZ	Ritzroy Crossi	56.87 262	P	P	06 13 26.3	-1.6
SBA	Scott Base	57.21 185	I	I	06 13 30.4	+1.1
SBA	comp=Z,17nm,1.1s		I	I	06 13 30.4	+1.1
SBA	comp=Z,17nm,1.1s		pmax	pmax		
VNDA	Vanda	57.34 186	P	P	06 13 32.5	+2.3
VNDA	comp=Z,3.8nm,1.0s,baz=2.3,slo=6.2,SNR=14		LR	LR	06 33 45.6	
VNDA	comp=Z,9.2nm,20.6s,baz=15,slo=31		LR	LR		
VNDA	comp=Z,3.8nm,1.0s		P	P	06 13 32.6	+2.3
VNDA	comp=Z,8.0nm,1.1s		pmax	pmax		
SWI	Sorong	57.37 283	P	P	06 13 28.5	-3.0
SWI	Sorong	57.37 283	P	P	06 13 29.0	-2.5
SWI	comp=Z,7.2nm,1.0s		pmax	pmax		
KLBR	Kellerberrin	61.28 245	P	P	06 13 55.5	-2.8
KLBR	Kellerberrin	61.28 245	P	P	06 13 57.3	-1.0
PSA00	Pilbara Seismi	61.35 256	P	P	06 13 56.4	-2.6
PSA00	Pilbara Seismi	61.35 256	P	P	06 13 57.4	-1.5
NWAO	Narrogin (SRO)	61.52 243	LR	LR	06 39 51.3	
NWAO	comp=Z,26.1nm,18.5s,baz=45,slo=35		LR	LR		
MBWA	Marble Bar	61.55 257	I	I	06 13 58.2	-2.1
MBWA	comp=Z,13nm,0.8s		I	I	06 13 57.7	-2.6
MBWA	Marble Bar	61.55 257	P	P	06 13 58.7	-1.6
MBWA	Marble Bar	61.55 257	P	P	06 14 09.9	-1.1
MORW	Morawa	63.17 247	P	P	06 14 08.7	-2.3
MORW	Morawa	63.17 247	P	P	06 14 11.1	+0.1
MORW	Morawa	63.17 247	P	P	06 14 08.6	-3.4
EDFI	Ende, Flores	63.27 271	P	P	06 14 22.3	+1.1
CASY	Casey	64.82 206	P	P	06 14 36.3	
CASY	comp=Z,14nm,1.0s		I	I		
TOL12	Tolitoli	67.73 281	I	I	06 14 39.6	
TOL12	Tolitoli	67.73 281	P	P	06 14 40.7	0.0
QSPA	South Pole Qui	68.61 180	P	P	06 14 48.9	+3.3
QSPA	comp=Z,9.8nm,1.0s,baz=34,slo=5.5,SNR=14		LR	LR	06 40 39.1	
QSPA	comp=Z,174nm,20.5s,baz=44,slo=32		LR	LR		
JHJ2	Mitsun	70.09 320	P	P	06 14 54.3	-0.7
HWLD	Lahad Datu	71.46 283	P	P	06 15 05.5	+1.7
KIWB	Kanaga Island	73.07 358	I	I	06 15 12.6	+0.1
JGF	Kuroka	73.28 320	I	I	06 15 14.8	
JGF	Kuroka	73.28 320	P	P	06 15 14.6	+0.4
INUJ	nuayama	73.31 320	P	P	06 15 14.9	+0.6
MJAR	Matsushiro Arr	73.42 321	P	P	06 15 14.3	-0.6
MJAR	comp=Z,15nm,1.0s,baz=157,slo=6.1,SNR=21		LR	LR	06 44 49.4	
MJAR	comp=Z,52nm,18.7s,baz=122,slo=34		LR	LR		
MAJO	Matsushiro	73.42 321	P	P	06 15 13.8	-1.2
MAJO	comp=Z,15nm,1.0s		I	I	06 15 15.7	
MAJO	Matsushiro	73.42 321	P	P	06 15 15.1	+0.1
MAJO	Matsushiro	73.42 321	P	P	06 15 13.8	-1.2
MAJO	comp=Z,24nm,1.1s		pmax	pmax		
MBJ9	Matsu-Tunnel	73.42 321	I	I	06 15 16.7	
MBJ9	comp=Z,22nm,1.1s		I	I		
JMN	Monobe	74.20 317	P	P	06 15 20.0	+0.3
JMN	Monobe	74.20 317	P	P	06 15 19.9	+0.3
JSD	Sado	74.42 322	P	P	06 15 21.3	+0.5
JNU	Nakatsue	75.77 315	I	I	06 15 29.4	
JNU	comp=Z,5nm,1.0s		I	I		
JNU	Nakatsue	75.77 315	P	P	06 15 29.4	+0.7
KSM	Kuching	77.52 277	I	I	06 15 40.1	
PETK	Petropavlovsk	78.30 343	P	P	06 15 43.1	+0.7
PETK	comp=Z,6.8nm,0.8s,baz=120,slo=8.8,SNR=7.0		P	P		
PETK	comp=Z,9.6nm,0.8s		P	P		
YSS	Yuzhno-Sakhali	78.61 331	eP	P	06 15 45.3	+1.0
YSS	eSP		P	P	06 15 50.4	-2.8
YSS	eS		S	S	06 15 55.5	
YSS	eS		pmax	pmax	06 25 39.7	-1.4
YSS	comp=Z,30nm,1.1s		MLR	MLR		
RYN	Ryan	79.03 41	P	P	06 15 46.5	-0.6
NVAR	Mina Array Bea	79.04 41	P	P	06 15 51.3	+4.2
NVAR	comp=Z,2.3nm,0.6s,baz=226,slo=7.6,SNR=23		P	P		
NV11	Mina Array Sit	79.13 41	P	P	06 15 47.4	-0.2
TPH	Tonopah	79.49 42	P	P	06 15 49.0	-0.6
TPH	Tonopah	79.49 42	P	P	06 15 49.0	-0.6
TPH	comp=Z,117nm,1.8s		pmax	pmax		
SHRP	Sheep Range	79.86 44	P	P	06 15 50.5	-1.1
OHAK	Old Harbor	80.24 11	P	P	06 15 54.0	+1.1
OHAK	baz=199		P	P		
KSRS	Korea Array	80.31 317	P	P	06 15 54.8	+1.1
KSRS	comp=Z,8.1nm,1.0s,baz=139,slo=6.0,SNR=27		P	P		
KSAR	Wonju Array Be	80.33 317	P	P	06 15 54.3	+0.4
KSAR	Wonju Array Be	80.33 317	P	P	06 15 54.3	+0.4
R18K	Karluk	80.36 10	P	P	06 15 55.1	+1.6
R18K	baz=198		P	P		
P17K	Contact Creek	80.80 9	P	P	06 15 57.4	+1.3
KDAK	Kodiak Island	80.90 11	P	P	06 15 58.2	+1.8
KDAK	baz=200		P	P		
MDSI	Maura Dua	81.05 269	P	P	06 15 56.1	-2.2
O15K	Ungalikthiuk R	81.16 7	P	P	06 15 59.2	+1.4
P16K	Nushagak River	81.24 8	P	P	06 15 59.6	+1.4
P16K	baz=195		P	P		
Q18K	Katmai Hardscr	81.31 10	P	P	06 16 00.0	+1.3
Q18K	baz=198		P	P		
WVOR	Wild Horse Val	81.36 38	P	P	06 16 03.1	+3.6
WVOR	comp=Z,6.0nm,2.2s		pmax	pmax		
MSHR	Mys Shultsa	81.49 322ceP	P	P	06 15 59.6	-0.4
MSHR	comp=Z,14nm,0.8s		pmax	pmax		
P17K	Kvichak River	81.62 9	P	P	06 16 01.9	+1.7
P17K	baz=196		P	P		

N14K	Kuskokwak Cree	81.69 6	P	P	06 16 02.7	+2.2
N14K	baz=191		P	P		
Q20K	Shuyak Island	81.71 11	P	P	06 16 02.7	+2.0
Q20K	baz=200		P	P		
O16K	Kuskok River B	81.78 8	P	P	06 16 02.1	+1.0
O16K	baz=195		P	P		
Q19K	Cape Douglas,	81.80 10	P	P	06 16 02.6	+1.3
Q19K	baz=199		P	P		
MAW	Mawson	81.98 199	P	P	06 16 04.8	+2.6
MAW	comp=Z,2.5nm,0.7s,baz=141,slo=7.2,SNR=4.2		P	P		
MAW	Mawson	81.98 199	P	P	06 16 04.0	+1.7
P18K	Big Mountain,	81.99 9	P	P	06 16 03.7	+1.5
P18K	baz=197		P	P		
M13K	Dall Lake	82.02 5	P	P	06 16 04.7	+2.4
M13K	baz=190		P	P		
USA0B	Ussuriysk Arra	82.06 324	i	P	06 16 04.1	+1.1
USRK	Ussuriysk Ar.	82.06 324	P	P	06 16 03.0	+0.1
USRK	Ussuriysk Ar.	82.06 324	P	P	06 16 05.2	+2.3
USRK	comp=Z,3.5nm,0.9s,baz=104,slo=3.9,SNR=6.1		P	P		
USRK	Ussuriysk Ar.	82.06 324	P	P	06 16 03.0	+0.1
O17K	Koliganek Bris	82.08 8	P	P	06 16 04.2	+1.5
O17K	baz=198		P	P		
N15K	Kwukluk River	82.10 7	P	P	06 16 04.4	+1.6
N15K	baz=193		P	P		
O18K	Koktuh Hills	82.43 9	P	P	06 16 06.2	+1.7
O18K	baz=197		P	P		
M14K	Bethel	82.48 6	P	P	06 16 07.0	+2.3
M14K	baz=191		P	P		
N16K	Nishlik Lake	82.55 7	P	P	06 16 07.0	+1.8
N16K	baz=194		P	P		
M15K	Kasigluk River	82.55 6	P	P	06 16 07.2	+2.2
M15K	baz=192,SNR=7.2		P	P		
P19K	Oil Pt	82.55 10	P	P	06 16 06.8	+1.6
P19K	baz=199		P	P		
N17K	Nushagak Hills	82.80 8	P	P	06 16 08.0	+1.6
N17K	baz=197		P	P		
O19K	Port Alsworth	82.89 10	P	P	06 16 08.4	+1.6
O19K	baz=198		P	P		
L14K	Kuka Creek	83.00 5	I	I	06 16 10.5	
L14K	comp=Z,10nm,1.1s		I	I		
L14K	Kuka Creek	83.00 5	P	P	06 16 09.7	+2.3
L14K	baz=190		P	P		
M16K	Timber Creek	83.06 7	P	P	06 16 10.4	+2.6
M16K	baz=194,SNR=7.1		P	P		
O20K	Slo Mountain	83.06 10	P	P	06 16 09.2	+1.4
O20K	baz=200		P	P		
BRSE	Bradley Lake S	83.08 11	P	P	06 16 09.8	+1.9
BRSE	baz=202		P	P		
N18K	Kilae Creek	83.12 9	P	P	06 16 09.8	+1.7
N18K	baz=197		P	P		
K13K	Kusivluk Mount	83.43 4	P	P	06 16 11.7	+2.1
K13K	baz=188		P	P		
L15K	Ungalik Mounta	83.44 6	P	P	06 16 11.9	+2.2
L15K	baz=193		P	P		
N19K	Bonanza Creek	83.46 9	P	P	06 16 11.3	+1.4
N19K	baz=198		P	P		
M17K	Holitna River	83.61 8	P	P	06 16 12.5	+1.9
M17K	baz=195		P	P		
NJ2	Nanjing	83.61 308	eP	P	06 16 12.0	+0.7
NJ2	comp=Z,13nm,0.6s		pmax	pmax		
SEW	Seward	83.66 12	P	P	06 16 12.8	+2.0
SEW	baz=203		P	P		
MDJ	Mudanjiang	83.66 323	P	P	06 16 12.1	+0.9
MDJ	comp=Z,13nm,1.1s		S	S	06 26 36.5	+2.5
MDJ	comp=Z,32nm,1.1s		pmax	pmax		
MDJ	comp=Z,190nm,4.1s		pmax	pmax		
MDJ	comp=Z,190nm,17.9s		LR	LR		
MDJ	comp=Z,200nm,17.2s		LR	LR		
L16K	Owahat River	83.67 7	P	P	06 16 13.3	+2.4
L16K	comp=Z,330nm,19.2s		LR	LR		
Q23K	Middleton Isla	83.68 14	P	P	06 16 12.8	+1.8
Q23K	baz=206		P	P		
M18K	Stony River	83.91 9	P	P	06 16 13.8	+1.7
M18K	baz=197		P	P		
P23K	Montague Islan	83.97 13	P	P	06 16 14.3	+1.8
P23K	baz=204		P	P		
K15K	Wolf Creek Mou	84.04 6	P	P	06 16 15.3	+2.5
K15K	baz=191,SNR					

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BPAW	Bear Paw Mtn. baz=201	87.11	10	P	P	06 16 29.8 +1.8
YUK3	Moose Creek baz=211	87.12	15	P	P	06 16 30.3 +1.9
P32M	Atlin baz=217	87.15	19	P	P	06 16 30.4 +2.0
H18K	Honhosa River comp=Z,25nm,1.6s	87.15	6	Iamb	Iamb	06 16 31.3
H18K	Honhosa River baz=194	87.15	6	P	P	06 16 29.9 +1.7
F15K	North Star Dit baz=188	87.18	4	P	P	06 16 30.4 +2.1
YUK4	Talbot Arm baz=212	87.21	16	P	P	06 16 31.3 +2.4
UBPT	Khong Chiam baz=195	87.25	287	P	P	06 16 30.5 +0.7
I20K	Naaghedeneel baz=198	87.26	8	P	P	06 16 31.0 +2.3
G17K	Kiwalik Mouna baz=192	87.27	5	P	P	06 16 30.7 +1.9
M27K	Edge Creek, AK comp=Z,15nm,1.1s	87.29	14	Iamb	Iamb	06 16 41.5
M27K	Edge Creek, AK baz=209,SNR=10	87.29	14	P	P	06 16 31.6 +2.5
VNA2	Neumayer-Watz comp=Z,2.9nm,0.8s,baz=206,slow=5.1	87.36	176	↑P	P	06 16 32.2 +2.8
MENT	Mentasta baz=140	87.40	13	P	P	06 16 31.1 +1.6
O30N	Mendenhall baz=21	87.41	17	P	P	06 16 31.9 +2.3
L26N	Log Cabin Wild comp=Z,15nm,1.6s	87.55	13	Iamb	Iamb	06 16 34.1
L26K	Log Cabin Wild baz=208	87.55	13	P	P	06 16 32.4 +2.2
BVCY	Beaver Creek baz=210,SNR=6.1	87.58	15	P	P	06 16 32.8 +2.4
WHY	Whitehorse baz=216	87.67	18	P	P	06 16 33.0 +2.1
N30M	Aishikik Lake baz=214	87.71	17	P	P	06 16 33.3 +2.2
H19K	Roundabout Mou baz=196	87.72	7	P	P	06 16 33.1 +2.2
K24K	Donnelly Dome comp=Z,6nm,1.1s	87.75	12	Iamb	Iamb	06 16 42.9
K24K	Donnelly Dome baz=206	87.75	12	P	P	06 16 33.5 +2.3
G18K	Tagagawik comp=Z,15nm,1.6s	87.84	6	Iamb	Iamb	06 16 34.6
G18K	Tagagawik baz=194	87.84	6	P	P	06 16 33.4 +1.9
R33M	Jennings River baz=219	87.86	20	P	P	06 16 33.5 +1.6
KULM	Kulim baz=276	87.88	276	P	P	06 16 33.3 +0.4
H20K	Anotleneega Mo baz=198,SNR=6.2	87.88	8	P	P	06 16 33.9 +2.2
RIDG	Independent Ri comp=Z,1.3s	87.88	12	Iamb	Iamb	06 16 38.4
RIDG	Independent Ri baz=207	87.88	12	P	P	06 16 33.8 +2.0
NEA2	Nenana comp=Z,20nm,1.6s	87.88	10	Iamb	Iamb	06 16 35.7
NEA2	Nenana baz=203	87.88	10	P	P	06 16 33.5 +1.8
P33M	Teslin, Yukon baz=218	87.92	19	P	P	06 16 34.5 +2.3
L27K	Beaver Creek comp=Z,20nm,1.9s	87.92	14	Iamb	Iamb	06 16 38.5
L27K	Beaver Creek baz=210	87.92	14	P	P	06 16 34.4 +2.4
BCAR	Beaver Creek A baz=210	87.93	14	P	P	06 16 31.9 -0.2
DOT	Dot Lake comp=Z,28nm,1.8s	87.96	13	Iamb	Iamb	06 16 35.7
MLY	Manley comp=Z,24nm,2.0s	88.02	10	Iamb	Iamb	06 16 37.5
MLY	Manley baz=201	88.02	10	P	P	06 16 33.9 +1.5
HDA	Harding Lake comp=Z,11nm,1.3s	88.08	11	Iamb	Iamb	06 16 37.2
HDA	Harding Lake baz=202	88.08	11	P	P	06 16 34.4 +1.7
N31M	Braeburn, Yuko baz=215	88.09	17	P	P	06 16 34.8 +1.9
F17K	Baldwin Pennin baz=193	88.14	5	P	P	06 16 35.0 +2.1
M29M	Somme Creek baz=212	88.19	16	P	P	06 16 35.5 +2.1
G19K	Purcell Mouna comp=Z,21nm,1.4s	88.25	7	Iamb	Iamb	06 16 36.9
G19K	Purcell Mouna baz=196	88.25	7	P	P	06 16 35.4 +2.0
SCRK	Sand Creek baz=208,SNR=5.6	88.27	13	P	P	06 16 35.7 +2.0
SEY	Seymchan comp=Z,15nm,0.8s	88.28	345	ceP	Pmax	06 16 34.9 +1.3
HEH	Heihe comp=Z,12nm,1.1s	88.28	327	eP	Pmax	06 16 34.9 +1.0
HEH	Heihe baz=204	88.28	327	P	P	06 16 34.9 +1.0
H21K	Melozitna Rive comp=Z,14nm,1.4s	88.31	9	Iamb	Iamb	06 16 38.3
H21K	Melozitna Rive baz=199,SNR=2.2	88.31	9	P	P	06 16 36.0 +2.2
H23K	Minto, Yukon-K comp=Z,23nm,1.7s	88.35	10	Iamb	Iamb	06 16 37.7
I23K	Minto, Yukon-K baz=203	88.35	10	P	P	06 16 35.5 +1.7
COLA	COLA comp=Z,31nm,1.8s	88.35	11	P	P	06 16 34.4 +0.5
COLA	COLA baz=203	88.35	11	P	P	06 16 33.7 -0.2
COLA	COLA comp=Z,31nm,1.8s	88.35	11	P	P	06 16 35.8 +1.9
ILAR	Eielson Array comp=Z,1.5nm,0.6s,baz=227,slow=6.1,SNR=20	88.42	11	P	P	06 16 35.4 +1.1
ILAR	Eielson Array baz=193	88.42	11	P	P	06 16 36.0 +1.7
ILAR	Eielson Array baz=193	88.42	11	P	P	06 16 35.4 +1.1
F18K	Selawik comp=Z,24nm,1.2s	88.44	6	P	P	06 16 35.9 +1.7
IMAR	Indian Mounai baz=206,SNR=7.6	88.49	8	P	P	06 16 35.4 +0.8
J25K	Salcha River comp=Z,20nm,1.9s	88.56	12	P	P	06 16 36.8 +1.8
PSI	Prapat comp=Z,24nm,1.2s	88.57	274	P	P	06 16 35.8 -0.6
PSI	Prapat baz=193	88.57	274	P	P	06 16 35.2 -1.2
POKR	Poker Plat Res baz=204	88.64	11	P	P	06 16 37.0 +1.7
K27K	Chicken baz=209	88.71	13	P	P	06 16 38.0 +2.3
E17K	Hotham Inlet baz=191	88.73	5	P	P	06 16 37.4 +1.7
H22K	Ishlaitina Cre baz=201	88.73	9	P	P	06 16 37.6 +1.9
J26L	Joseph Creek comp=Z,12nm,1.0s	88.82	13	Iamb	Iamb	06 16 48.5
J26L	Joseph Creek baz=208,SNR=14	88.82	13	P	P	06 16 38.8 +2.5
L29M	L29M baz=213,SNR=8.3	88.83	15	P	P	06 16 38.9 +2.6
F19K	Shaluckik Mo baz=195	88.84	6	P	P	06 16 38.1 +1.9
H23K	Yukon River baz=202	88.94	10	P	P	06 16 38.3 +1.5
G21K	Allakaket comp=Z,16nm,1.7s	89.03	8	Iamb	Iamb	06 16 40.7
G21K	Allakaket baz=199	89.03	8	P	P	06 16 39.4 +2.2
M31M	Drury Creek, Y baz=216	89.06	17	P	P	06 16 39.7 +2.3
E18K	Tukpahlearik C comp=Z,9.4nm,1.0s	89.16	5	P	P	06 16 39.7 +2.0
E18K	Tukpahlearik C baz=192	89.16	5	P	P	06 16 40.3 +1.8
HNS	HongShan S	89.19	311	↑P	S	06 27 27.3 -0.5
HNS	HongShan S	89.19	311	↑P	S	06 27 27.3 -0.5
H24K	Noodor Dome baz=204	89.23	10	P	P	06 16 39.8 +1.7
D17K	Noatak River baz=180	89.25	4	P	P	06 16 40.2 +2.1
F20K	Avarat Lake baz=197	89.27	7	P	P	06 16 40.4 +2.2
GSI	Gunungsitoli baz=272	89.28	272	P	P	06 16 39.3 +0.3
GSI	Gunungsitoli baz=272	89.28	272	P	P	06 16 40.0 +0.4
DAWY	Dawson baz=212,SNR=5.8	89.34	14	P	P	06 16 40.8 +2.1
PRP	Porcupine Dome comp=Z,31nm,2.0s	89.35	11	Iamb	Iamb	06 16 42.1

PRP	Porcupine Dome baz=206,SNR=6.1	89.35	11	P	P	06 16 40.8 +2.0
FARO	Faro, Yukon baz=211	89.37	18	P	P	06 16 40.8 +1.9
TOAD	Toad River Com baz=224	89.42	23	P	P	06 16 41.3 +2.2
LYN	LuoYang comp=Z,34nm,1.2s	89.50	308	↑P	Pmax	06 16 41.9 +1.8
LYN	LuoYang baz=206	89.50	308	↑P	Pmax	06 16 45.8 +4.3
LYN	LuoYang baz=206	89.50	308	↑P	Pmax	06 16 51.1 -1.1
LYN	LuoYang baz=206	89.50	308	↑P	Pmax	06 27 38.5 +3.0
E19K	Redstone River baz=195	89.50	6	P	P	06 16 41.1 +1.8
K29M	Barlow Dome comp=Z,34nm,1.9s	89.60	15	Iamb	Iamb	06 16 45.2
K29M	Barlow Dome baz=206	89.60	15	P	P	06 16 42.4 +2.4
I26K	Coal Creek Min comp=Z,22nm,1.8s	89.61	12	Iamb	Iamb	06 16 43.8
I26K	Coal Creek Min baz=208,SNR=5.3	89.61	12	P	P	06 16 42.1 +2.2
G22K	Bettles baz=201	89.68	9	P	P	06 16 42.1 +2.0
C16K	Lisburne Hills baz=188	89.69	3	P	P	06 16 42.1 +2.0
G23K	Banza Creek baz=202	89.70	9	P	P	06 16 42.4 +2.1
F21K	Alatna River baz=199	89.70	8	P	P	06 16 42.2 +1.9
H25L	Birch Creek baz=202	89.71	1	P	P	06 16 43.6 +2.1
C17K	DeLong Mounai baz=190	90.01	4	P	P	06 16 43.7 +2.0
SRIT	Nakonsritamara comp=Z,2.8nm,0.3s,baz=115,slow=3.7,SNR=1.9	90.05	279	P	P	06 16 43.3 +0.2
COLD	Coldfoot baz=213	90.15	9	P	P	06 16 44.8 +2.4
I27K	Kandik River baz=210	90.18	13	P	P	06 16 44.7 +2.1
MMPY	Sheldon Lake, baz=213,SNR=6.3	90.28	18	P	P	06 16 45.1 +2.0
C18K	Utukok River baz=192	90.32	5	P	P	06 16 45.4 +2.2
G25K	Bearman Lake baz=206	90.37	11	P	P	06 16 45.7 +2.3
E20K	Nigu River baz=196	90.39	6	P	P	06 16 45.8 +2.3
I28M	Miner Creek comp=Z,24nm,2.0s	90.40	13	Iamb	Iamb	06 16 49.9
I28M	Miner Creek baz=211	90.40	13	P	P	06 16 45.7 +2.0
D19K	Kuna River comp=Z,12nm,1.3s	90.42	6	Iamb	Iamb	06 16 46.1
D19K	Kuna River baz=202	90.42	6	P	P	06 16 45.9 +2.2
BEAVL	Fort Liard baz=224	90.43	22	P	P	06 16 45.8 +2.0
BILL	Bilibino comp=Z,8.0nm,1.1s	90.46	353	P	P	06 16 43.8 +0.1
BILL	Bilibino baz=213	90.46	353	ceP	Pmax	06 16 45.7 +1.9
BILL	Bilibino baz=213	90.46	353	ceP	Pmax	06 16 45.7 +1.9
ZEZ	Zeya comp=Z,8.0nm,1.1s	90.46	329	eP	Pmax	06 16 45.7 +1.6
ZEZ	Zeya baz=193	90.46	329	eP	Pmax	06 28 47.4
J30M	Hart River comp=Z,10.0nm,1.1s	90.50	15	P	P	06 16 46.5 +2.3
I29M	Ogilvie Camp, baz=193	90.69	14	Iamb	Iamb	06 16 49.4
I29M	Ogilvie Camp, baz=213	90.69	14	P	P	06 16 47.1 +2.1
H27K	Steamboat Moun comp=Z,13nm,1.5s	90.75	12	Iamb	Iamb	06 16 50.1
H27K	Steamboat Moun baz=210	90.75	12	P	P	06 16 47.7 +2.4
F24K	Squaw Lake baz=204	90.77	10	P	P	06 16 47.8 +2.5
E22K	Ananuvuk Pass baz=204	90.78	8	P	P	06 16 47.3 +1.9
D20K	Etiuvik River baz=196	90.78	6	P	P	06 16 47.1 +1.8
E19K	Killik River baz=198	90.81	7	P	P	06 16 47.4 +1.9
C19K	Lookout Ridge comp=Z,7.4nm,0.9s	90.89	5	P	P	06 16 47.9 +2.1
C19K	Lookout Ridge baz=193	90.89	5	P	P	06 16 47.9 +2.1
G26K	Porcupine Rive comp=Z,14nm,1.3s	90.95	11	Iamb	Iamb	06 16 51.0
G26K	Porcupine Rive baz=206	90.95	11	P	P	06 16 48.2 +2.1
SLVN	San La comp=Z,15nm,1.4s	90.95	292	Iamb	Iamb	06 16 50.0
B18K	Kokolik River baz=191	90.98	4	P	P	06 16 48.4 +2.2
E23K	Chanalar baz=202	91.01	9	P	P	06 16 48.4 +2.0
I30M	Mount Dempster I30M	91.02	15	P	P	06 16 46.6 0.0
I30M	Mount Dempster comp=Z,12nm,1.4s	91.02	15	Iamb	Iamb	06 17 15.3
I30M	Mount Dempster baz=214	91.02	15	P	P	06 16 48.8 +2.2
E24K	Your Creek baz=203	91.19	9	P	P	06 16 49.6 +2.3
F25K	Christian Rive comp=Z,23nm,1.9s	91.20	10			





Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like ONTNC, DZM, AFJ, RAR, SANVU, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like CTAO, STKA, STKA, STKA, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other parameters. Includes stations like NWAOW, NWAOW, NWAOW, NWAOW, etc.

19d 7h

Table with columns for station name, frequency, power, and other technical details. Includes stations like APSI Ampana, TTSI Tana Toraja, MRSI Marisa, DNP Denpasar, DAV Davao City (W), etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like MAJO Matsushiro, NVL N'zarezevskaya, COYC Coyhaique, JMN Monobe, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like JKA Kamikawa-asahi, ASAJ Asahikawa, SISI Saibi, SHEM Shemya Is, SMI Shemya, etc.





M19K	Big River Lodg	94.20	11	P	P	07 14 59.2	-1.2
M19K	baz=200			S	S	07 26 11.4	+1.6
PV22	Blue Mesa, Par	94.23	47	IAMB	IAMB	07 15 09.4	
FIS	Fire Island	94.24	13	IAMS_20	IAMS_20	07 52 53.7	
GAMB	Gambell	94.28	3	IAMB	IAMB	07 15 06.3	
GAMB	comp=Z,101nm,1.0s			IAMS_20	IAMS_20	07 51 07.4	
GAMB	Gambell	94.28	3	P	P	07 15 00.9	+0.3
GAMB	baz=185			S	S	07 26 14.1	+3.9
RC01	Rabbit Creek A	94.29	13	IAMB	IAMB	07 15 07.5	
RC01	comp=Z,192nm,1.4s			IAMS_20	IAMS_20	07 52 41.8	
RC01	Rabbit Creek A	94.29	13	P	P	07 15 00.1	-0.7
RC01	baz=204,SNR=7.9			S	S	07 26 13.4	+2.9
HIN	Hinchinbrook I	94.34	15	IAMB	IAMB	07 15 11.3	
HIN	comp=Z,55nm,1.0s			IAMS_20	IAMS_20	07 53 01.3	
PWL	Port Wells	94.36	14	IAMB	IAMB	07 15 07.9	
PWL	comp=Z,180nm,1.3s			IAMS_20	IAMS_20	07 52 55.8	
PWL	Port Wells	94.36	14	P	P	07 15 00.4	-0.8
PWL	baz=205,SNR=13			S	S	07 26 15.4	+4.3
HWUT	Hardware Ranch	94.37	44	IAMS_20	IAMS_20	07 49 05.9	
V35K	Ketchikan	94.38	24	IAMS_20	IAMS_20	07 49 43.8	
V35K	comp=Z,9um,22.0s			P	P	07 14 59.3	-1.9
V35K	Ketchikan	94.38	24	P	P	07 26 17.5	+6.1
V35K	baz=218			S	S	07 26 13.3	+1.9
L19K	White Mountain	94.39	11	P	P	07 15 00.8	-0.5
L19K	comp=Z,199,SNR=44			S	S	07 26 13.3	+1.9
M20K	Styx River	94.39	11	IAMS_20	IAMS_20	07 55 48.7	
M20K	comp=Z,9um,20.0s			P	P	07 14 59.8	-1.5
M20K	Styx River	94.39	11	P	P	07 26 12.9	+1.3
M20K	baz=201			S	S	07 15 00.6	-1.4
XAN	Xifan	94.40	307	PP	PP	07 18 52.1	+2.2
XAN	comp=Z,10um,20.0s			SKS	SKS	07 25 34.3	-1.5
XAN	Xifan	94.40	307	SS	SS	07 26 12.0	-0.8
XAN	comp=Z,90nm,0.8s			S	S	07 32 36.6	+0.9
XAN	comp=Z,3um,5.7s			LR	LR		
XAN	comp=Z,6um,19.6s			LR	LR		
XAN	comp=Z,5um,19.1s			LR	LR		
K17K	lditaro	94.40	9	IAMB	IAMB	07 15 08.3	
K17K	comp=Z,12um,19.6s			IAMS_20	IAMS_20	08 01 28.8	
K17K	lditaro	94.40	9	P	P	07 15 00.6	-0.6
K17K	baz=196,SNR=30			S	S	07 26 13.7	+2.4
KAIM	Kayak Island	94.40	16	IAMS_20	IAMS_20	07 52 27.0	
KAIM	comp=Z,9um,20.0s			P	P	07 14 58.7	-2.6
KAIM	Kayak Island	94.40	16	P	P	07 26 16.9	+5.4
KAIM	baz=208			S	S	07 15 11.3	
SUA	Susitna One	94.44	13	IAMB	IAMB	07 15 11.3	
SUA	comp=Z,86nm,0.8s			P	P	07 15 00.4	-1.2
SUA	Susitna One	94.44	13	P	P	07 26 15.1	+3.1
SUA	baz=203,SNR=14			S	S	07 47 31.2	
ATAH	Atahualpa	94.46	101	LR	LR	07 47 31.2	
ATAH	comp=Z,6um,21.6s,baz=239,slow=29			IAMS_20	IAMS_20	07 49 26.2	
U33K	Whale Pass	94.47	23	IAMS_20	IAMS_20	07 49 26.2	
U33K	comp=Z,8um,21.0s			P	P	07 14 59.7	-2.0
U33K	Whale Pass	94.47	23	P	P	07 26 17.6	+5.5
U33K	baz=217			S	S	07 14 59.9	-1.9
SIT	Sitka	94.51	22	P	P	07 26 20.6	+8.2
SIT	baz=215			S	S	07 15 07.4	
GLI	Glacier Island	94.64	15	IAMB	IAMB	07 15 07.4	
GLI	comp=Z,92nm,0.9s			IAMS_20	IAMS_20	07 52 43.3	
GLI	Glacier Island	94.64	15	P	P	07 15 01.2	-1.2
GLI	baz=206,SNR=13			S	S	07 26 17.4	+3.8
EYAK	Cordova Ski Ar	94.64	15	IAMB	IAMB	07 15 07.7	
EYAK	comp=Z,57nm,0.9s			P	P	07 15 02.6	+0.2
EYAK	Cordova Ski Ar	94.64	15	P	P	07 15 01.4	-1.0
EYAK	baz=207,SNR=14			S	S	07 26 17.3	+3.8
FID	Port Fidalgo	94.66	15	IAMB	IAMB	07 15 07.5	
FID	comp=Z,54nm,1.0s			IAMS_20	IAMS_20	07 52 20.6	
J16K	Anvik River	94.66	8	IAMB	IAMB	07 15 10.2	
J16K	comp=Z,138nm,1.1s			IAMS_20	IAMS_20	08 01 31.7	
J16K	Anvik River	94.66	8	P	P	07 15 02.1	-0.3
J16K	baz=194,SNR=46			S	S	07 26 18.8	+5.1
SUCK	Suckling Hills	94.69	16	IAMS_20	IAMS_20	07 52 47.7	
SKT	Skwentna	94.77	12	IAMS_20	IAMS_20	07 53 56.6	
SKT	comp=Z,11um,21.0s			P	P	07 15 02.2	-0.8
SKT	Skwentna	94.77	12	P	P	07 26 16.3	+1.6
SKT	baz=202,SNR=10.0			S	S	07 15 22.3	
M22K	Willow	94.82	13	IAMB	IAMB	07 15 22.3	
M22K	comp=Z,116nm,1.0s			IAMS_20	IAMS_20	07 53 14.0	
M22K	Willow	94.82	13	P	P	07 15 01.6	-1.5
M22K	baz=203			S	S	07 26 17.5	+2.6
L20K	Farewell, AK	94.83	11	P	P	07 15 02.3	-1.0
L20K	comp=Z,200,SNR=18			S	S	07 26 17.3	+2.1
KNK	Knik Glacier	94.84	14	IAMB	IAMB	07 15 08.6	
KNK	comp=Z,77nm,1.1s			P	P	07 15 02.9	-0.4
KNK	Knik Glacier	94.84	14	P	P	07 26 19.0	+3.7
KNK	baz=205,SNR=9.2			S	S	07 15 10.1	
PMR	Palmer	94.87	13	IAMB	IAMB	07 15 10.1	
PMR	comp=Z,74nm,1.2s			P	P	07 15 02.6	-0.8
PMR	Palmer	94.87	13	P	P	07 15 02.5	-0.9
PMR	baz=204,SNR=24			S	S	07 26 18.1	+2.7
HVBL	Hebbronville	94.91	62	IAMB	IAMB	07 15 12.7	
HVBL	comp=Z,180nm,1.7s			IAMB	IAMB	07 15 11.0	
J17K	VABM Dome	94.95	8	IAMB	IAMB	07 15 29.4	
J17K	comp=Z,105nm,1.2s			IAMS_20	IAMS_20	07 54 29.4	
J17K	VABM Dome	94.95	8	P	P	07 15 03.7	0.0

J17K	baz=196,SNR=30			S	S	07 26 19.7	+3.6
S31K	Pelican	94.96	21	IAMS_20	IAMS_20	07 51 47.0	
S31K	comp=Z,70um,20.0s			P	P	07 15 02.7	-1.2
S31K	Pelican	94.96	21	P	P	07 26 25.8	+9.5
S31K	baz=215			S	S	07 26 25.8	+9.5
WRAK	Wrangell Islan	94.98	23	IAMS_20	IAMS_20	07 49 41.6	
WRAK	comp=Z,8um,22.0s			P	P	07 15 02.7	-1.3
WRAK	Wrangell Islan	94.98	23	P	P	07 26 25.1	+8.5
WRAK	baz=218			S	S	07 15 11.5	
BERG	Berg Lake	94.98	16	IAMB	IAMB	07 15 11.5	
BERG	comp=Z,91nm,1.2s			IAMB	IAMB	07 15 11.8	
GHO	Glory Hole Cre	95.07	13	IAMB	IAMB	07 15 11.8	
GHO	comp=Z,776nm,0.9s			IAMS_20	IAMS_20	07 50 14.2	
S32K	Killino	95.08	22	IAMS_20	IAMS_20	07 50 14.2	
S32K	comp=Z,9um,20.0s			P	P	07 15 04.2	-0.2
S32K	Killino	95.08	22	P	P	07 26 20.0	+8.6
S32K	baz=216			S	S	07 15 03.3	-1.2
T33K	Petersburg	95.09	23	P	P	07 26 26.3	+8.8
T33K	baz=217			S	S	07 53 26.9	
DIV	Divide	95.16	15	IAMS_20	IAMS_20	07 53 26.9	
DIV	comp=Z,8um,20.0s			P	P	07 15 04.3	-0.8
SML	Sawmill	95.22	14	P	P	07 26 21.8	+3.1
SML	baz=205			S	S	07 15 16.5	
MESA	MESA	95.23	17	IAMB	IAMB	07 15 16.5	
MESA	comp=Z,73nm,0.8s			IAMS_20	IAMS_20	07 58 36.0	
MESA	MESA	95.23	17	P	P	07 15 05.4	+0.1
MESA	comp=Z,9um,20.0s			S	S	07 26 25.1	+6.0
MESA	baz=210,SNR=12			S	S	07 15 12.3	
I17K	Unalakleet	95.24	8	IAMB	IAMB	07 15 12.3	
I17K	comp=Z,75nm,1.1s			P	P	07 15 04.6	-0.4
I17K	Unalakleet	95.24	8	P	P	07 26 23.1	+4.6
I17K	baz=194			S	S	07 15 12.8	
WAX	Waxell Ridge	95.24	17	IAMB	IAMB	07 15 12.8	
WAX	comp=Z,110nm,1.2s			IAMS_20	IAMS_20	07 53 35.2	
BMRM	Bremner River	95.28	16	IAMB	IAMB	07 15 10.7	
BMRM	comp=Z,61nm,0.9s			IAMS_20	IAMS_20	07 53 08.2	
BMRM	Bremner River	95.28	16	P	P	07 15 04.8	-0.6
BMRM	comp=Z,10um,20.0s			S	S	07 26 24.4	+6.0
BMRM	baz=208,SNR=12			S	S	07 15 05.0	-0.6
M23K	Glacier View	95.33	14	P	P	07 26 23.6	+4.1
M23K	comp=Z,205,SNR=7.8			S	S	07 15 12.4	
J18K	Innok River	95.33	9	IAMB	IAMB	07 15 12.4	
J18K	comp=Z,102nm,1.1s			IAMS_20	IAMS_20	07 53 41.5	
J18K	Innok River	95.33	9	P	P	07 15 04.8	-0.7
J18K	baz=198,SNR=42			S	S	07 26 23.5	+4.0
AHID	Auburn Hatcher	95.35	43	IAMB	IAMB	07 15 12.7	
AHID	comp=Z,71nm,1.1s			IAMS_20	IAMS_20	07 49 56.8	
CUT	Cutlina	95.39	13	P	P	07 15 05.3	-0.4
CUT	comp=Z,9um,22.0s			S	S	07 26 22.6	+2.6
CUT	Cutlina	95.39	13	P	P	07 15 13.9	
YAH	Yahtse	95.44	17	IAMB	IAMB	07 15 13.9	
YAH	comp=Z,67nm,1.0s			IAMS_20	IAMS_20	07 54 21.4	
ANM	Nome	95.45	5	IAMS_20	IAMS_20	07 54 21.4	
ANM	comp=Z,10um,22.0s			P	P	07 26 24.5	+4.1
ANM	Nome	95.45	5	P	P	07 15 05.9	-0.4
ANM	baz=190			S	S	07 26 26.5	+5.7
CRQE	Crque	95.45	16	P	P	07 15 05.9	-0.4
CRQE	comp=Z,199			S	S	07 52 57.6	
CRQE	Crque	95.45	16	P	P	07 15 05.6	-0.6
CRQE	baz=209			S	S	07 26 25.2	+4.5





Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like G21K Allakaket, L29M L29M, D17K Nostak River, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like E22K Anaktuvuk Pass, B18K Anaktuvuk Pass, F24K Squaw Lake, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like C27K Jago River, C27K Jago River, ULN Ulanbatar, etc.

19d 7h

Table with columns for call sign, frequency, mode, and other parameters. Includes entries like BDFB, P53A Whipple, WMQ Urumqi, etc.

2019 JUN

Table with columns for call sign, frequency, mode, and other parameters. Includes entries like KURK, HRV Adam Dzewionki, AUN Adam, etc.

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Table with columns for call sign, frequency, mode, and other parameters. Includes entries like DOK Doka, WHO Wadi Hawi, SOHO SOHO, etc.



19d 7h

2019 JUN

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Table with multiple columns containing station names, call signs, frequencies, and various status codes. The table is organized into several vertical sections, each starting with a call sign or station name. The columns include details like frequency, power, and specific codes for each station.









Error ellipse: s-maj=11.5km s-min=7.0km az=153.0
ISC 19 09:47:41.3, 1.8, 41.83N, 0.06:79.20E, 0.04, h0km, 11km,
n20, c=94/49, 11C-BD, Kyrgyzstan-Xinjiang border

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

NEIC 19 09:54:32.9, 1.2, 17.5S, 0.1:175.0W, 0.1, h247km, 6km,
mb4.1/21, Error ellipse: s-maj=18.7km s-min=15.2km
az=116.0

IDC 19 09:54:42.0, 7.1, 17.25S:175.64W, h314km, 45km, mb3.7/4,
mbtmp4.3/6, Error ellipse: s-maj=125.9km s-min=27.9km
az=134.0

ISC 19 09:54:32.7, 0.6, 17.47S:0.09:174.98W, 0.09, h250km,
n50, c=11/52, mb4.0/13, Tonga Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

Table with columns: STKA, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

HEL 19 09:59:50.1, 0.3, 64.70N:30.95E, h0km, ML1.9, Explosion
KOLA 19 09:59:50.8, 64.63N:30.74E, h0km, ML2.2, Error ellipse:
s-maj=20.4km s-min=13.3km az=170.0, Kostomuksha,
Karelia

MOS 19 09:59:51.0, 0.7, 64.7N:0.4:30.6E, 0.1, h0km, M2.3, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 19 09:59:51.4, 2.7, 64.68N:31.08E, h0km, mbtmp2.9/4,
ML2.2/4, Error ellipse: s-maj=39.5km s-min=9.5km
az=100.0

ISC 19 09:59:50.7, 1.0, 64.73N:0.03:30.46E, 0.05, h0km, n20,
c=111/33, Finland-Karelia border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

ASRS 19 10:00:49.0, 1.6, 53.71N:91.08E, h0km, M3.3, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.

IDC 19 10:00:55.1, 3.1, 53.68N:90.85E, h0km, mbtmp3.3/3,
ML2.9/3, Error ellipse: s-maj=26.3km s-min=22.6km
az=53.0

NNC 19 10:00:58.2, 6.5, 53.57N:90.46E, h0km, mb3.6, mpv3.3,
Error ellipse: s-maj=20.2km s-min=16.0km az=40.0,
Suspected Mining explosion.

ISC 19 10:00:55.0, 4.2, 53.39N:0.1:90.5E, 0.2, h0km, n10,
c=154/13, 6C-4D, Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

Table with columns: KURBB, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

IDC 19 10:27:31.9, 1.7, 7.88S:129.87E, h0km, mb3.5/2,
mbtmp3.3/4, ML3.0/2, MS3.6/2, Error ellipse:
s-maj=103.9km s-min=26.6km az=70.0, Banda Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

IDC 19 10:32:01.2, 1.8, 31.77S:177.22W, h0km, mb4.1/4,
mbtmp4.0/5, ML3.4/1, Error ellipse: s-maj=42.7km
s-min=38.0km az=55.0

NEIC 19 10:32:02.2, 1.9, 31.7S:0.1:177.1W, 0.2, h10km, 1km,
mb4.2/17, Error ellipse: s-maj=27.1km s-min=16.9km
az=69.0

ISC 19 10:32:05.0, 0.8, 31.75S:0.08:177.3W, 0.1, h35km, n26,
c=130/28, mb4.2/12, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

NEIC 19 11:16:40.5, 1.3, 31.66S:0.08:177.4W, 0.2, h10km, 2km,
mb4.3/9, Error ellipse: s-maj=25.3km s-min=13.6km
az=99.0

IDC 19 11:16:40.4, 1.4, 31.85S:177.54W, h0km, mb4.0/5,
mbtmp4.0/6, ML3.2/1, MS3.0/1, Error ellipse: s-maj=35.0km
s-min=26.9km az=52.0

ISC 19 11:16:41.1, 1.1, 31.71S:0.10:177.7W, 0.2, h10km, n20,
c=1826/21, mb4.2/10, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations and their characteristics.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, h, m, s, ISC. Includes stations like WBO, KNRA, FITZ, GUMO, QSPA, SNA, FINES.

IDC 19 11:18:43.5-0.6,30:52S-177:84W,h0km,mb4.5/6, mbmp4.5/6,MS3.6/9, Error ellipse: s-maj=25.6km

NEIC 19 11:18:49.5-1.4,30:65S-177:8W,0.2,h35km,1km, mb4.9/25, Error ellipse: s-maj=26.6km s-min=15.8km

ISC 19 11:18:49.3-0.5,30:82S-177:9W,0.1,h35km,n100, c218/99,mb4.8/22,MS3.7/4,1C-5D,Kermadec Islands

Main table for 1133 containing station data for Green Lake, Raoul Island, Puketiti, Raukumara Rang, Waipu Caves, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, h, m, s, ISC. Includes stations like VNA3, VNA2, VNA1, H03S2, H03S1, H03S3, H03N2, H03N1, ADK, SHEM, NVAR, MKAR, KURB, KKAR, SPITS, ARCES, KBZ, HAZ, FINE, FINE, FINE, NC303, NB2, NOA, HFS, AKAS, AKAS, KIEV, MMAI, BRTR, TORD.

IDC 19 11:25:54.3-2.9,31:38S-177:76W,h0km,mb3.9/3, mbmp3.9/4,ML3.2/1, Error ellipse: s-maj=67.5km

ISC 19 11:37:19.2-0.2,21:44S-0:05,66:59W,0.0,6, h254km,14km,n38,c1979/59,Southern Bolivia

Main table for 2019 JUN containing station data for Urewera, Stephens Creek, ASAR, WRA, FINE, SJA, SCB, MOCB, YJA, PB09, PB09, PB01, PB01, PB03, PB03, PB03, GO01, GO01, GO01, PB06, PB06, PB06, PB11, PB11, PB11, TA01, TA01, TA02, PB05, PB05, PB05.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, h, m, s, ISC. Includes stations like PB05, PB05, PB16, PB16, PB16, PB16, PB16, PB10, PB10, PB10, GO02, GO02, GO02, BBOJ, SOEJ, PB14, PB14, BBOE, BBOJ, LPZ, LPZ, LPZ, BBOZ.

IDC 19 11:46:01.6-1.2,35:51N-69:95E,h0km,mb3.8/6, mbmp3.9/11,ML3.7/5, Error ellipse: s-maj=27.7km

ISC 19 11:46:18.6-1.9,36:4N-0:1,70:0E,0.1,h100km,n23, c1571/28,mb3.8/3,C-6D,Hindu Kush region

Main table for 19d 11h containing station data for Almayashu, KK31, AAK, AAK, AAK, AAK, CHMS, USP, TKM2, TKM2, TKM2, MK31, MKAR, AB31, KURB, AKTO, AKTO, AKTO, BVAO, BVAO, BVAO, ZALV, FINES, ARCES, HFS, WRA, ASAR, SJA, SCB, SALTA, SALTA, AF01, SLA, YJA, YJA, YJA, PB06, PB06, FSA, PB09, PB09, GO02, GO02, GO02, PB05, PB05, PB05, PB10, PB10, PB10, PB14, PB14, PB14, PB01, PB01, PB01.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like MKAR, KNRA, KK31, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like F19K, G19K, E20K, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like WSAR, PALK, EIL, etc.

19d 13h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like TWGZ, OUZ, MARZ, MWZ, TKGZ, URZ, RAGZ, TOZ, RIGZ, MUGZ, SNGZ, PRGZ, MHGZ, BKZ, HIZ, BFZ, SNZ, KHZ.

SKHL 19 12:45:00.9-0.3, 47.10N, 142.30E, h14km, mb4.0/5
JMA 19 12:45:00.5-0.4, 47.12N, 142.23E, h12km, MV2.6/9, SOUTH SAKHALIN

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like YSS, NEVR, JWKC, JRBN, JSE.

IDC 19 12:47:27.9-3.2, 31.24S, 176.97W, h0km, mb3.9/2, mbtmp3.9/3, ML3.8/1, Error ellipse: s-maj=76.5km

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like URZ, ASAR, WRA, FINES.

IDC 19 12:47:46.8-1.0, 8.21N, 141.46E, h0km, mb3.8/9, mbtmp3.9/11, ML4.3/2, MS3.2/13, Error ellipse: s-maj=40.0km

IDC 19 12:47:51.0-0.8, 8.21N, 141.71E, h0.2, h35km, n28, s=0.97/12, mb3.9/9, MS3.2/10, Western Caroline Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like GUMO, DAV, H11S3, H11S2, H11S1, JNU, H11N2, H11N3, MJAR, WRA, KSRS, ASAR, ASAJ, USRK, KLR, PETK, SOMN, SEY, URZ, MKAR, KURBB, BVAR, ILAR, SPITS, ARCES, FINES.

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IDC 19 12:48:49.9-9.5, 32.09S, 179.89W, h246km, g93km, mb3.3/2, mbtmp3.9/3, Error ellipse: s-maj=94.6km

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like URZ, ASAR, WRA, KURBB, FINES.

IDC 19 12:51:11.8-2.8, 33.92S, 178.47W, h0km, mb3.6/2, mbtmp3.9/3, ML4.2/1, Error ellipse: s-maj=77.4km

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like URZ, ASAR, WRA, FINES.

PRE 19 12:59:07.4-0.8, 26.03S, 29.21E, h0km, ML2.7, Suspected explosion

BUL 19 12:59:13.6-2.0, 26.22S, 29.57E, h21km, 22km, MD3.2

IDC 19 12:59:08.0-0.8, 26.01S, 0.04, 29.23E, h0km, n21, s=1.59/40, South Africa

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like CRLN, HRAO, WDLM, PILG, NWCL, PRYS, POGA, SNKL, MOPA, LBTB, PMBER, MUSN, BOSO, BLWY, CHIPN, KRI.

IDC 19 13:30:59.1-7.4, 13.07S, 166.92E, h215km, 74km, mb3.5/5, mbtmp3.9/6, Error ellipse: s-maj=61.2km

NEIC 19 13:30:59.7-2.1, 13.2S, 0.1, 167.0E, 0.2, h215km, 8km, mb4.4/9, Error ellipse: s-maj=23.0km

IDC 19 13:30:57.5-0.8, 13.06S, 0.09, 166.9E, 0.1, h200km, n30, s=1.10/30, mb3.4/13, Vanuatu Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SANVU, DZM, DZM, DZM, DZM, EIDS, LHI, CTAO, RAO, ARMA, BKZ, STKA, STKA, WRA.

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like WRA, AS31, ASAR, BBOO, KNRA, FITZ, MBWA, VANDA, CASY, QSPA, P16K, M16K, K15K, ILAR, MKAR, ARCES, FINES.

IDC 19 13:49:36.8-0.8, 30.90S, 177.83W, h0km, mb4.3/7, mbtmp4.3/7, MS3.4/4, Error ellipse: s-maj=31.8km

NEIC 19 13:49:42.9-2.3, 31.01S, 0.01, 177.9W, 0.2, h35km, 2km, mb4.6/21, Error ellipse: s-maj=26.6km

IDC 19 13:49:38.1-0.5, 31.15S, 0.05, 177.84W, 0.09, h10km, n75, s=1.84/76, mb4.6/21, 5C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like GLKZ, RAO, RIZ, TKGZ, MWZ, MARZ, URZ, URZ, URZ, RAGZ, RAGZ, RAGZ, PRGZ, PRGZ, TOZ, SNGZ, PHZ, ARHI, NMHZ, BKZ, MSVF, RPZ, RPZ, DZM, DZM, DZM, RAR, RAR, EIDS, EIDS, CAN, CAN, PPT2, PPT2, PPT2, CTAO, CTAO, STKA, STKA, BBOO, BBOO, COEN, COEN, AS31, ASAR, ASAR, WRA, WRA, WRA, FORT, FORT, VANDA, MTN, KNRA, FITZ, CASY, QSPA, TROLL, SNA, SNA, SNA, VNA3, VNA2, VNA1.



Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Sado, Kanaga Island, Korea Array, etc.

IDC 19 14:03:46.3.2.3123S-177.76W, h0km, mb3.4/2, mbtmp3.5/3, ML3.0/1, Error ellipse: s-maj=73.7km s-min=37.3km az=113.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Urewera, Alice Springs, Warramunga Arr, etc.

KRNET 19 14:04:11.6:0.1, 41.42N:76.52E, h14km, mb3.1, NNC 19 14:04:13.5:1.6, 41.43N:76.63E, h0km, mb3.3, mpv3.5, Error ellipse: s-maj=10.6km s-min=5.5km az=174.0

SOME 19 14:04:14.1, 41.50N:76.65E, h10km, KNET 19 14:04:14.1:0.7, 41.49N:76.43E, h11km, 5km, ml2.6, Error ellipse: s-maj=8.8km s-min=3.8km az=86.0

ISC 19 14:04:11.5:1.1, 41.39N:0.04:76.50E:0.02, h13km, 10km, n52, e134/86, 32C-31D, Kyrgyzstan-Xinjiang border region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Naryn, Ulahol, Kajisay, Taragay, Boomkoosye usch, Tokmak 2, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Salom-Alik, Saty, Almayush, Karatobe, Karabastau, etc.

IDC 19 14:05:39.3:1.5, 31.29S:177.62W, h0km, mb4.2/4, mbtmp4.2/4, Error ellipse: s-maj=44.8km s-min=36.7km az=17.0

NEIC 19 14:05:40.2:1.3, 31.36S:0.05:177.4W:0.2, h10km, 1km, mb4.4/13, Error ellipse: s-maj=27.9km s-min=5.2km az=77.0

ISC 19 14:05:42.2:0.8, 31.37S:0.10:177.4W:0.1, h26km, n26, e134/27, mb4.2/1, 3C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Raoul Island, Urewera, Mont Dzumac, etc.

IDC 19 14:05:39.3:1.5, 31.29S:177.62W, h0km, mb4.2/4, mbtmp4.2/4, Error ellipse: s-maj=44.8km s-min=36.7km az=17.0

NEIC 19 14:05:40.2:1.3, 31.36S:0.05:177.4W:0.2, h10km, 1km, mb4.4/13, Error ellipse: s-maj=27.9km s-min=5.2km az=77.0

ISC 19 14:05:42.2:0.8, 31.37S:0.10:177.4W:0.1, h26km, n26, e134/27, mb4.2/1, 3C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Raoul Island, Urewera, Mont Dzumac, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Nonsavu, Rarotonga, Mont Dzumac, etc.

ISC 19 14:14:18.6:0.7, 34.74N:45.82E, h12km, 43km, ML3.1, TEH 19 14:14:18.7, 34.73N:45.82E, h15km, 81km

ISC 19 14:14:19.1:0.9, 34.76N:0.03:45.82E:0.03, h10km, n19, e150S/23, Iran-Iraq border region

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Ghar-e-Shirin, Dehras, Gilan-e-Gharb, etc.

IDC 19 14:19:02.4:0.4, 4.53S:143.51E, h85km, 3km, mb4.3/18, mbtmp4.8/22, MS3.6/33, Error ellipse: s-maj=10.4km s-min=7.9km az=66.0

NEIC 19 14:19:03.7:1.4, 4.52S:0.07:143.42E:0.07, h94km, 6km, mb4.9/68, Error ellipse: s-maj=10.5km s-min=9.5km az=209.0

GCMT 19 14:19:04.7:0.2, 4.45S:0.02:143.43E:0.02, h109km, 3km, MW5.0/33, Moment Tensor Solution, s26:c27, s83:c116, Duration: 0 Moment tensor: Scale: 0.16Nm, Mw: 1.18:1.17, M1: Mw: 3.22:1.3; M2: Mw: 1.35:0.9; M3: Mw: 0.35:0.13; Mw: 0.57:1.6; Best double couple: M4: 64800:1016: NP2: q=220.0000; s77.0000; a-21.0000; Principal axes: T 4.9600, Plg5.0000, Azm268.0000; N -0.6230, Plg6.0000; Azm10.0000; P -4.3370, Plg24.0000; Azm176.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

DJA 19 14:19:04.8:0.5, 5.5S:143.3E, h97km, 3km, M5.1/66, mb5.3/66, mb5.5/38, MLV6.0/6, Mw(mh)4.9/38, Mw(mw)4.8/38, Mw(mw)5.1/2

ISC 19 14:18:02.8:0.3, 4.52S:0.04:143.47E:0.04, h85km, 2km, h85km:pp-P, n366, e131/376, mb5.0/101, 1C-2D, New Guinea

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Includes stations like Jayapura, Manu Island, etc.

19d 14h

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Table with columns: Station, Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like KDU Kakadu, MTN Manton Dam, and various other locations.

Table with columns: Station, Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like PSA00 Pilbara Seismi, OBUOC Queen Island, and various other locations.

Table with columns: Station, Name, Time, Azimuth, Elevation, SNR, and other parameters. Includes stations like GVZ Greta Valley S, MSLI Meulaboh, and various other locations.





Table with columns: SNAA, Sanae, 77.89 178 P, 0.7nm, 1.0s, baz=90, slow=1.0, SNR=11, 0.7nm, 1.0s

Table with columns: FINES, FINES Array B, 145.40 340 PKPbc, 1.5nm, 0.5s, baz=48, slow=2.1, SNR=7.5

IDC 19 15:18:28.9.3.5, 31.28S, 177.76W, h0km, mb3.4/2, mbtmp3.5/3, ML2.8/1, Error ellipse: s-maj=78.0km, s-min=49.3km az=117.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, URZ Urewera, 8.14 210 Pn, 0.1nm, 0.3s, baz=167, slow=18, SNR=6.9

Table with columns: ASAR Alice Springs, 43.28 268 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: WRA Warramunga Arr, 44.34 273 P, 0.3nm, 0.4s, baz=112, slow=7.9, SNR=8.3

Table with columns: FINES FINES Array B, 146.40 340 PKPbc, 1.5nm, 1.0s, baz=40, slow=5.3, SNR=2.6

IDC 19 15:28:49.0.0.33, 66S, 179.06W, h0km, mb4.0/4, mbtmp4.1/5, ML4.6/1, MS3.1/5, Error ellipse: s-maj=32.7km, s-min=25.4km az=74.0

WEL 19 15:28:53.6.0.8, 34.3S, 177.17W, h149km, mb4.2/2, mb4.8/15, ML4.8/16, MLV4.7/22, Mw(mB)4.0/15, Error ellipse: s-maj=10.6km s-min=8.3km az=106.2, confirmed

IDC 19 15:28:56.5.0.8, 33.97S, 0.07:178.82W, 0.10, h50km, n64, c207/97, mb3.8/4, MS2.8/3, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, MXZ Matakaoa Point, 4.28 212 P, 1.1nm, 0.3s, baz=247, slow=18, SNR=5.4

Table with columns: URZ Urewera, 5.40 216 P, 0.2nm, 0.3s, baz=167, slow=18, SNR=6.9

Table with columns: URZ Urewera, 5.40 216 P, 0.2nm, 0.3s, baz=167, slow=18, SNR=6.9

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Table with columns: URZ Urewera, 5.40 216 P, 0.2nm, 0.3s, baz=167, slow=18, SNR=6.9

Table with columns: NOA NORSAR Array B, 152.15 350 PKPbc, 0.2nm, 1.0nm, 0.7s, baz=156, slow=4.5, SNR=7.0

Table with columns: HFS Hagfors, 152.57 346 PKPbc, 0.2nm, 2.2nm, 0.7s, baz=335, slow=1.7, SNR=6.0

Table with columns: AKASA Malin Array Be, 153.60 315 PKPab, 0.2nm, 2.0nm, 0.4s, baz=62, slow=2.2, SNR=4.2

Table with columns: TORD Torodi Ar. Bea, 159.26 181 PKPab, 0.2nm, 1.46nm, 0.3s, baz=172, slow=3.3, SNR=1.6

IDC 19 15:29:14.3.1.16, 19.57N, 109.03W, h0km, mb3.8/7, mbtmp3.8/10, ML3.5/3, MS3.1/13, Error ellipse: s-maj=61.2km s-min=39.1km az=64.0

MEX 19 15:29:20.8.0.4, 19.24N, 108.58W, h15km, 999km, MD4.2, 19.24N, 108.58W, h15km, 999km, MD4.2

ISC 19 15:29:16.3.1.2, 19.6N, 0.1:108.67W, 0.09, h10km, n28, c185/24, mb4.0/6, MS3.2/11, Revilla Gigedo Islands region

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, CJM Chabela, 3.42 91 P, 0.1nm, 0.7s

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Table with columns: CJM Chabela, 3.42 91 P, 0.1nm, 0.7s

Table with columns: WPHZ Waipukurua, 9.88 207 S, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: TSZ Takapari Road, 10.07 209 S, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: TUWZ Tuamarina, 12.06 211 Pn, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: RAR Rarotonga, 19.03 62 LR, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

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Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

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Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

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Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: STKA Stephens Creek, 34.45 258 P, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: NOA NORSAR Array B, 152.15 350 PKPbc, 0.2nm, 1.0nm, 0.7s, baz=156, slow=4.5, SNR=7.0

Table with columns: WPHZ Waipukurua, 9.88 207 S, 0.2nm, 0.5s, baz=112, slow=6.0, SNR=8.6

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, and various station identifiers like BKZ, RATZ, MHGZ, etc.

IDC 19 15:52:46.3;7.4, 30.565;177.63W, h0km, mb3.4/2, mbtmmp3.4/2, Error ellipse: s-maj=305.2km s-min=62.6km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, and station identifiers like ASAR, WRA, FINES, etc.

IDC 19 15:53:42.3;0.5, 54.98N; 164.62E, h0km, mb4.3/31, mbtmmp4.3/37, ML4.5, MS3.9/50, Error ellipse: s-maj=13.9km s-min=9.7km az=171.0

KRSC 19 15:53:43.6;1.5, 54.80N; 164.59E, h51km, mb29km, M0.4/7, M15.2, Felt [IV] at Kordon Aerodrom; [III] at Nikolskoye

NEIC 19 15:53:43.4;1.8, 54.90N; 0.09; 164.7E; 0.1, h10km, 1km, mb4.8/332, Error ellipse: s-maj=14.5km s-min=10.8km az=178.0

MOS 19 15:53:45.3;0.9, 54.82N; 164.68E, h39km, mb4.9/45, M5.4/19, Error ellipse: s-maj=4.8km s-min=3.8km az=96.6

GCMT 19 15:53:49.0;4.0, 54.81N; 0.02; 164.63E; 0.0, h32km, 1km, MW4.8/72, Moment Tensor Solution, s15, c18; s72, c100; Duration: Moment tensor; Scale 1019Nm; M1=0.80; 16; M2=0.85; 10; M3=1.02; 14; M4=0.87; 07; M=0.00; 10; Best double couple: M1=1.96600; 1016

NP1=160.00000; 857.00000; lambda=153.00000; NP2=0.55.00000; 668.00000; lambda=36.00000; Principal axes: T 1.9700, P1g7.0000; Azm110.0000; N -0.0050, P1g4.0000; Azm208.0000; P -1.9630, P1g41.0000; Azm14.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

BGR 19 15:53:53.6; 56; 100N; 164.40E, h33km, mb4.7

ISC 19 15:53:46.0; 0.5, 54.81N; 0.04; 164.68E; 0.03, h31km, 3km, h31km; pP, n871, t1906764, mb4.8/261, M54.0/70, 11C-170, Komandorski Islands region

Main table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, and various station identifiers like BKI, Bering, MKZ, etc.

IDC 19 15:52:46.3;7.4, 30.565;177.63W, h0km, mb3.4/2, mbtmmp3.4/2, Error ellipse: s-maj=305.2km s-min=62.6km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AZ, Phase ID, Time, Res, and station identifiers like ASAR, WRA, FINES, etc.

IDC 19 15:53:42.3;0.5, 54.98N; 164.62E, h0km, mb4.3/31, mbtmmp4.3/37, ML4.5, MS3.9/50, Error ellipse: s-maj=13.9km s-min=9.7km az=171.0

KRSC 19 15:53:43.6;1.5, 54.80N; 164.59E, h51km, mb29km, M0.4/7, M15.2, Felt [IV] at Kordon Aerodrom; [III] at Nikolskoye

NEIC 19 15:53:43.4;1.8, 54.90N; 0.09; 164.7E; 0.1, h10km, 1km, mb4.8/332, Error ellipse: s-maj=14.5km s-min=10.8km az=178.0

MOS 19 15:53:45.3;0.9, 54.82N; 164.68E, h39km, mb4.9/45, M5.4/19, Error ellipse: s-maj=4.8km s-min=3.8km az=96.6

GCMT 19 15:53:49.0;4.0, 54.81N; 0.02; 164.63E; 0.0, h32km, 1km, MW4.8/72, Moment Tensor Solution, s15, c18; s72, c100; Duration: Moment tensor; Scale 1019Nm; M1=0.80; 16; M2=0.85; 10; M3=1.02; 14; M4=0.87; 07; M=0.00; 10; Best double couple: M1=1.96600; 1016

NP1=160.00000; 857.00000; lambda=153.00000; NP2=0.55.00000; 668.00000; lambda=36.00000; Principal axes: T 1.9700, P1g7.0000; Azm110.0000; N -0.0050, P1g4.0000; Azm208.0000; P -1.9630, P1g41.0000; Azm14.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

BGR 19 15:53:53.6; 56; 100N; 164.40E, h33km, mb4.7

ISC 19 15:53:46.0; 0.5, 54.81N; 0.04; 164.68E; 0.03, h31km, 3km, h31km; pP, n871, t1906764, mb4.8/261, M54.0/70, 11C-170, Komandorski Islands region

Table with columns: MA2, Magadan, 8.93 308cePN, Pn, 15 55 54.8 +2.1, and various station identifiers like MA2, MA2, AMKA, etc.



Table with columns for station ID, name, elevation, frequency, power, and other technical details. Includes stations like Unalakleet, Ungalikthiuk R, Sand Point, Noatak River, Owhat River, Kivalik Mouna, Baldwin Pennin, Hotham Inlet, Red Dog Mine, Fog Glacier, DeLong Moutai, Granite Mouna, Nishlik Lake, VABM Dome, VABM Dome, Ternei, Chernabura Is, Donlin, Iditarod, Kokwok River B, Nushagak River, Tukpahlearik C, Selawik, Holitna River, Holitna River, Hornhosa River, Utukok River, Utukok River, Kul'dur, Kul'dur, Tagagawik, Tagagawik, Nushagak Hills, Kokolik River, Kolliganek Bris, Tenmabayashi, Granite Mouna, Innoke River, Innoke River, Galena City Sc, Kvichak River, Shalekokik Mo, Kilae Creek, Purcell Mouna, Stony River, Lookout Ridge, Lookout Ridge, Wainwright, Roundabout Mou, Roundabout Mou, Zeya, Zeya, Kuna River, Koktuh Hills, Big Mountain, White Mountain, Katmai Hardscr, Bonanza Creek, Big River Lodg, Avaraart Lake, Avaraart Lake, Anotleneega Mo, Chirikof Isian, Naaghdeneel, Etivluk River, Etivluk River, Telida, Telida, Nigu River.

Table with columns for station ID, name, elevation, frequency, power, and other technical details. Includes stations like Novitna River, Novitna River, Farewell, AK, Karluk, Meade River, Tiksi, Tiksi, Cape Douglas, Styx River, Indian Moutai Heithe, Indian Moutai Heithe, Punukie, Punukie, Oil Pt, Allakaket, Allakaket, Redoubt Volcan, Alatina River, Melozitna River, Knifeblade Rid, Slope Mountain, Lake Minchumim, Pukoyep, Killik River, Killik River, Old Harbor, Mount Spurr, Spurr Chakacha, Castle Rocks, Castle Rocks, Barrow, Ikpikpuk River, Marumori, Ussuriysk Ar, Ussuriysk Ar, Shuyas Island, Kodiak Island, Kodiak Island, Kodiak Island, Skwentna, Skwentna, Homer, Singlair Lake, Singlair Lake, Bear Paw Mtn, Ayikyak River, Ayikyak River, Bettles, China Poot, Manley, Manley, Anaktuvuk Pass, Sunitna One, Sunitna One, Sunitna One, Teshekpuk Lake, Teshekpuk Lake, Thorofore Moun, Chulitna, Bradley Lake S, Coldfoot, Bananza Creek, Bananza Creek, Rabi Creek A, Yukon River, Nanushuk River, Nanushuk River, Minto, Yukon-K, Nenana, Nenana, McKinley, McKinley, Seward, Seward, Chandalar, Kikilik River, Toolik Lake Re, Sunitna Watana, Knik Glacier, Knik Glacier.

Table with columns for station ID, name, elevation, frequency, power, and other technical details. Includes stations like Knik Glacier, Sawmill, Your Creek, Your Creek, College, College, Port Wells, Port Wells, Noodor Dome, Noodor Dome, Happy Valley, Happy Valley, Sunitna Watana, Sunitna Watana, Squaw Lake, Squaw Lake, Poker Plat Res, Poker Plat Res, Glacier View, Franklin Bluff, Hadweenzic Riv, Denali Highway, Denali Highway, Deni Highway, Sheep Creek Mo, Harding Lake, Harding Lake, Harding Lake, Eielson Array, Eielson Array, Eielson Array, Matushiro, Matushiro Arr, Matushiro Arr, Montague Island, Glacier Island, Glacier Island, Bearman Lake, Birch Creek, Tolsona, Glenn, Donnelly Dome, Donnelly Dome, Donnelly Dome, Kavik River, Porcupine Dome, Porcupine Dome, Christian River, Christian River, Salcha River, Salcha River, Klutina, Klutina, Klutina, Arctic Village, Arctic Village, Paxson, Paxson, Middleton Isla, Cordova Ski Ar, HARP, Independent Ri, Independent Ri, Burnt Mountain, Camden Bay, Sheepik River, Chitina, Valde, Dot Lake, Salcha River, Sand Creek, Porcupine River, Porcupine River, Bremner River, Bremner River, Joseph Creek, Jago River, Kayak Island, Changchun, Nabesna, Nabesna, McCarthy VSAT, Chicken, Cirque, Doyon Strip, Cirque.



EYMN	Ely	59.29	49	I	Amb	I	Amb	16 03 45.6
IUG	luzhny	59.32	300	eP		P	pmx	16 03 44.4 -0.3
IUG	luzhny	59.32	300	eP		P	pmx	16 03 44.4 -0.3
CHM	Chikment	59.41	301	eP		P		16 03 45.0 -0.2
CHM	Chikment	59.41	301	eP		P		16 03 45.1 -0.2
FINES	FINES Array B	59.57	308	P		P		16 03 45.5 -0.5
FINES	FINES Array B	59.57	308	P		P		16 03 45.8 -0.2
FINES	comp-Z, 7.0nm, 0.8s, baz=38, slow=9.6, SNR=21					LR		16 03 21.7
TBO	Thunder Bay	59.66	48	I	Amb	I	Amb	16 03 47.8
SDCO	Great Sand Dun	60.10	66	P		P		16 03 51.1 +0.7
E36A	The Farm, Brul	60.20	50	I	Amb	I	Amb	16 03 52.1
BORG	Borgarnes	60.68	3	LR		LR		16 28 54.1
RAF	Rauma	60.84	349	eP		P		16 03 54.6 0.0
MEF	Metsahovi	61.04	399	eP		P		16 03 55.7 -0.3
BELG	Belogomoye	61.12	321	LR		LR		16 03 54.1
CMAR	Chiang Mai Arr	61.16	261	P		P		16 03 59.1 +1.7
CMAR	comp-Z, 1.2nm, 0.7s, baz=26, slow=7.3, SNR=8.3					LR		16 03 29.6
GAR	Garm	61.53	298	P		P		16 03 59.5 -0.4
ANMO	Albuquerque	61.58	69	P		P		16 04 02.7 +1.6
ANMO	Albuquerque	61.58	69	P		P		16 04 02.5 +1.4
ANMO	Albuquerque	61.68	69j	eP		P	pmx	16 04 02.4 +1.4
COWI	Conover	61.74	49	I	Amb	I	Amb	16 04 02.0
BRDH	Baridaha	62.06	270	LR		LR		16 03 17.4
VSU	Vasula	62.11	337j	eP		P	pmx	16 04 01.7 -1.6
VSU	comp-Z, 12nm, 0.9s					P	pmx	
VSU	Vasula	62.11	337j	eP		P		16 04 02.8 -0.5
BNN	Barren Site	62.18	70	P		P		16 04 05.8 +1.2
DZET	Dzerhino	62.43	299	P		P		16 04 06.2 +0.2
DZET	comp-Z, 4.0nm, 0.4s					P	pmx	
SVAR	Simiganj	62.45	299	P		P		16 04 04.8 -1.4
SIMJ	Simiganj	62.45	299	P		P		16 04 23.6
OBN	Obninsk	62.48	329	LR		LR		16 03 07.6
OBN	Obninsk	62.48	329j	eP		P		16 04 05.8 0.0
OBN	Obninsk	62.48	329j	eP		P		16 04 45.0
OBN	Obninsk	62.48	329j	eP		P		16 06 23.5
MTSE	Matsu	62.53	338	eP		P		16 04 06.1 0.0
NB2	NORSAR Subarra	62.60	346	P		P		16 04 05.8 -0.8
NB2	NORSAR Subarra	62.60	346	P		P		16 04 05.7 -0.8
NOA	NORSAR Array B	62.60	346	P		P		16 04 06.1 -0.5
NOA	comp-Z, 6.5nm, 0.9s, baz=17, slow=6.8, SNR=14					LR		16 33 33.0
NOA	NORSAR Array B	62.60	346	eP		P		16 04 06.1 -0.5
SCHO	Schefferville	62.83	31	P		P		16 04 07.5 -0.7
HFS	Hagfors	63.09	344	P		P		16 04 08.9 -1.0
HFS	comp-Z, 4.6nm, 0.6s, baz=35, slow=5.4, SNR=22					LR		16 32 44.5
NIL	Nilore	64.04	292	P		P		16 04 16.3 -0.3
NIL	Nilore	64.04	292	P		P		16 04 16.3 -0.3
NIL	Nilore	64.04	292	P		P		16 04 16.3 -0.3
KONO	Kongsberg	64.16	346deP			P		16 04 16.8 -0.1
MSTX	Muleshoe	64.39	67	I	Amb	I	Amb	16 04 20.7
MNTX	Cornudas Mount	64.73	70	P		P		16 04 22.3 +1.3
MNK	Minsk	65.40	334	iP		P		16 04 25.4 +0.4
MNK	comp-N, 6.0nm, 0.6s					iP		16 04 25.4 +0.4
MNK	Minsk	65.40	334	iP		P		16 04 39.5 +0.3
MNK	Minsk	65.40	334	iP		P		16 06 41.9 -6.6
MNK	Minsk	65.40	334	iP		P		16 03 23.5
MNK	Minsk	65.40	334	iP		P		16 13 07.2 +0.4
MNK	Minsk	65.40	334	iP		P		16 13 31.4 +1.1
MNK	Minsk	65.40	334	iP		P		16 17 22.7 +3.4
MNK	Minsk	65.40	334	iP		P		16 20 29.6
MNK	Minsk	65.40	334	iP		P		16 28 28.9
MNK	Minsk	65.40	334	iP		P		16 35 06.2
MNK	Minsk	65.40	334	iP		P		16 04 25.4 +0.4
MNK	Minsk	65.40	334	iP		P		16 04 39.4 +0.3
MNK	Minsk	65.40	334	iP		P		16 08 23.5
MNK	Minsk	65.40	334	iP		P		16 13 07.2 +0.4
MNK	Minsk	65.40	334	iP		P		16 13 31.4 +1.1
MNK	Minsk	65.40	334	iP		P		16 17 22.6 +3.4
MNK	comp-Z, 22nm, 0.9s, baz=26					iP		16 04 39.5 +0.3
MNK	comp-E, 11nm, 0.7s					iP		16 04 39.5 +0.3
MNK	comp-N, 6.0nm, 0.6s					iP		16 03 23.5
MNK	comp-N, 4.5nm, 17.0s					iP		16 13 07.2 +0.4
MNK	comp-E, 4.9nm, 16.0s					iP		16 13 31.4 +1.1
MNK	comp-Z, 6.8nm, 16.0s					iP		16 17 22.6 +3.4
PABE	Paberze	65.44	337	eP		P		16 04 25.9 +0.6
DKNS	Dickens	65.61	66	P		P		16 04 25.9 +0.9
DKNS	Dickens	65.61	66	P		P		16 05 32.5
WMOK	Wichita Mounta	65.90	64	I	Amb	I	Amb	16 04 30.2
HDIL	Hopedale	66.02	53	P		P		16 04 29.2 0.0
BUKO	Buck Lake	66.06	44	I	Amb	I	Amb	16 04 31.3
SADO	Sadowa	67.02	44	LR		LR		16 36 39.8
CCM	Cathedral Cave	67.08	56	P		P		16 04 36.1 0.0
HAR	Hobbs	67.16	59	I	Amb	I	Amb	16 04 37.0
MGMO	Mountain Grove	67.30	58	I	Amb	I	Amb	16 04 37.7
TX31	Lajitas Ar. Si	67.49	71	P		P		16 04 41.0
TXAR	Lajitas Array	67.49	71	P		P		16 04 39.6 +0.7
TXAR	Lajitas Array	67.49	71	P		P		16 04 40.0 +1.1
TXAR	comp-Z, 6.3nm, 0.9s, baz=300, slow=4.5, SNR=59					LR		16 33 46.8
TXAR	comp-Z, 4.3nm, 19.5s, baz=348, slow=36					LR		16 04 39.6 +0.7
TXAR	comp-Z, 6.3nm, 0.9s					LR		16 04 40.6
DELO	Deloro Mine	67.71	43	I	Amb	I	Amb	16 04 56.1
SAND	Sanderson	67.84	69	I	Amb	I	Amb	16 04 56.1
42A	Van Buren	67.97	57	I	Amb	I	Amb	16 06 15.3
AK03	Malin Array Si	68.45	331	P		P		16 04 43.8 -0.7
AK21	Malin Array Si	68.46	331	P		P		16 04 44.1 -0.4
AK22	Malin Array Si	68.46	331	P		P		16 04 44.1 -0.5

AKASG	Malin Array Be	68.47	331	P		P		16 04 44.4 -0.2
AKASG	comp-Z, 0.6nm, 0.4s, baz=30, slow=6.0, SNR=20					LR		16 38 25.5
AKKB	Malin Array Si	68.47	331	I	Amb	I	Amb	16 04 45.1
AKKB	Malin Array Si	68.47	331	iP		P		16 04 44.3 -0.3
AKKB	Malin Array Si	68.47	331	P		P		16 04 44.1 -0.5
AKKB	Malin Array Si	68.47	331	P		P		16 04 44.1 -0.5
KIEV	Kiev	68.48	331	I	Amb	I	Amb	16 04 44.0 -0.7
KIEV	Kiev	68.48	331	P		P		16 04 44.0 -0.7
KIEV	Kiev	68.48	331	P		P		16 04 44.0 -0.7
KIEV	Kiev	68.48	331	P		P		16 04 44.3 -0.4
AK01	Malin Array Si	68.48	331	P		P		16 04 44.2 -0.5
AK20	Malin Array Si	68.49	331	P		P		16 04 44.3 -0.5
MEDO	Medina	68.63	45	P		P		16 04 45.1 -0.6
JCT	Junction City	68.68	67	I	Amb	I	Amb	16 04 47.8
MIAR	Mount Ida	68.71	60	I	Amb	I	Amb	16 05 28.5
WHAR	Wooly Hollow	68.76	59	I	Amb	I	Amb	16 04 47.5
RNPPI	Kostyukhnika	68.81	334	P		P		16 04 46.1 -0.6
D62A	Allapoint, All	68.82	36	P		P		16 04 46.5 -0.3
D62A	Allapoint, All	68.82	36	P		P		16 04 47.5
MAK	Makhachkala	68.92	316	eP		P		16 04 44.9 -2.7
MAK	Makhachkala	68.92	316	eP		P		16 09 01.1
MAK	Makhachkala	68.92	316	eP		P		16 13 45.9 -3.6
MAK	Makhachkala	68.92	316	eP		P		16 04 47.5
DRIO	Del Rio	69.07	69	I	Amb	I	Amb	16 04 50.0
BSEG	Bad Segeberg	69.57	344	eP		P		16 04 52.3 +0.9
LUBAR	Lubar, Ukraine	69.58	332	P		P		16 04 50.8 -0.7
WLAR	White Oak Lake	69.63	60	P		P		16 04 52.3 +0.3
EKA	Eskdalemuir Arr	69.77	353	P		P		16 04 52.9 +0.3
G62A	West of Eustis	69.91	38	P		P		16 04 53.5 -0.1
KVAR	Kislovodsk Arr	69.97	319	LR		LR		16 39 16.9
KIV	Kislovodsk	69.97	319	eP		P		16 04 55.7 +1.5
KIV	Kislovodsk	69.97	319	eP		P		16 04 55.7 +1.5
KIBZ	Khabaz	70.08	319	P		P		16 04 55.4 +0.7
KIBZ	Khabaz	70.08	319	P		P		16 04 55.5 +0.8
KIBZ	Khabaz	70.08	319	P		P		16 04 55.5 +0.8
H62A	Milan	70.24	39	P		P		16 04 55.7 0.0
WWT	Waverly	70.25	55	P		P		16 04 56.0 +0.1
WWT	Waverly	70.25	55	P		P		16 04 56.0 +0.1
HORU	Horodok	70.59	332	P		P		16 04 57.9 +0.2
M57A	Sunshine Farm	70.59	45	I	Amb	I	Amb	16 04 58.7
RETH	Rethem, Allier	70.88	344	eP		P		16 04 59.9 +0.5
I63A	Otisfield	70.90	39	I	Amb	I	Amb	16 05 00.9
U49A	Red Boiling Sp	70.91	53	I	Amb	I	Amb	16 07 23.6
LT5A	Nancy	70.93	52	I	Amb	I	Amb	16 05 01.0
C50N	Cedars of Liba	70.96	54	I	Amb	I	Amb	16 07 02.1
NRDL	Niedersach Rei	71.00	344	eP		P		16 05 00.4 +0.3
SORM	Soroc	71.04	331	P		P		16 04 59.9 -0.5
ANN	Anapa	71.14	323	eP		P		16 04 59.2 -1.9
ANN	Anapa	71.14	323	eP		P		16 05 13.4 +0.9
ANN	Anapa	71.14	323	eP		P		16 07 33.3
ANN	Anapa	71.14	323	eP		P		16 14 12.8 -2.7
KWP	Kalwarja Pacia	71.16	335	P		P		16 05 02.1 +0.9
KMPD	K-Podolskiy	71.17	332	P		P		16 05 00.8 -0.4
ASSE	Asse, Remling	71.26	343	eP		P		16 05 02.1 +0.5
OJC	Ojcow	71.29	337	P		P		16 05 02.8 +0.8
KSP	Ksiaz	71.45	339	P		P		16 05 03.9 +0.9
IBBN	Ibbenburen	71.54	345	eP		P		16 05 04.1 +0.7
CLZ	Clausthal	71.59	344	eP		P		16 05 04.6 +0.9
CLL	Collim	71.64	342	I	Amb	I	Amb	16 05 05.7
CLL	Collim	71.64	342	iP		P		16 05 03.8 -0.3
CLL	Collim	71.64	342	iP		P		16 05 16.0 -0.7
CLL	Collim	71.64	342	iP		P		16 05 04.0 -0.1
CLL	Collim	71.64	342	eP		P		16 05 04.2 +0.1
CLL	Collim	71.64	342	iP		P		16 05 03.8 -0.3
CLL	Collim	71.64	342	iP		P		16 05 16.0 -0.7
CLL	Collim	71.64	342	iP		P		16 05 16.0 -0.7
CLL	Collim	71.64	342	iP		P		16 05 16.0 -0.7
CLL	Collim	71.64	342	iP		P		16 05 16.0 -0.7
CLL	Coll							

Table with columns: Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like TUE Stuetta, TUE comp=7.5nm,1.1s, TUE Stuetta, TUE comp=7.5nm,1.1s, TAE Nuku Hiva Is, etc.

Table with columns: Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like MHGZ Mahia Peninsula, ARHZ Aropoanui, GRZ Great Barrier, etc.

Table with columns: Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like CXUV Yautepce, YAIG Yautepce, YAIG Yautepce, etc.

GCG 19 16:00:44.1s, 1.3, 13.98N:93.45W, h36km, 999km, MD4.6, ML4.4
NEIC 19 16:00:44.9s, 1.9, 14.14N:0.09:93.34W:0.05, h10km, 1km, mb4.3/29, MD4.2/33(MEX), Error ellipse: s-maj=14.6km

TKL Tuckaleechee C 22.96 20 LR LR 16 05 55.1
CRNM Carthage 23.04 331 P P 16 05 50.9 +0.3
BNM Barrett Site 23.15 331 P P 16 05 53.7 +2.0

WEL 19 15:59:38.8, 1.6, 38'S 15°17'7"E, h5km, M2.6/7, ML3.6/6, MLV2.6/7, Error ellipse: s-maj=20.3km s-min=5.7km az=10.2, confirmed, Off east coast of North Island

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like SMCA Catarina, SMCA Catarina, SMCA Catarina, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like ELK Elko, ELK Elko, ELK Elko, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like WIZ White Island, HAZ Te Kaha, HAZ Te Kaha, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like SMCA Catarina, SMCA Catarina, SMCA Catarina, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like ELK Elko, ELK Elko, ELK Elko, etc.

NOU 19 16:00:08.9, 37.45S:177.09E, h0km, MLV3.4/5, Off E. Coast of N. Island, N.Z.
WEL 19 16:00:10.7, 37.53S:177.12E, h5km, ML3.4, Mw3.7, Moment Tensor Solution, Inverse Moment tensor: Mw3.04

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like SMCA Catarina, SMCA Catarina, SMCA Catarina, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like ELK Elko, ELK Elko, ELK Elko, etc.

WEL 19 16:00:10.1, 0.7, 38.4S 177.7E, h5km, 5km, M3.4/50, s-min=2.9km az=174.9, confirmed

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like SMCA Catarina, SMCA Catarina, SMCA Catarina, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like ELK Elko, ELK Elko, ELK Elko, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like WSRZ White Island S, WIZ White Island, WIZ White Island, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like SMCA Catarina, SMCA Catarina, SMCA Catarina, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, P, I, A, M, B, Time, Res. Includes stations like ELK Elko, ELK Elko, ELK Elko, etc.

Bottom summary text containing station codes and names like WSRZ, WIZ, HAZ, etc.







Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PBDV, MD31, PBAR, MORF, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SNVZ, HIZ, FWZ, MOVZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RUGZ, RUGZ, EDZ, TGRZ, etc.

NOU 19 16:42:16.2, 37°50'S; 177°12'E, h0km, MLV3.0, Mw7.0, Off East of N. Island, N.Z.

WEL 19 16:42:17.8, 0.4, 38°53'S; 177°13'E, h6km, ML3.4, Mw3.7, Moment Tensor Solution, s7 Moment tensor: Scale 10^14 Nm...

ISC 19 16:42:17.0, 0.9, 37°52'S; 177°12'E, 0.02, h100km, 6km, n81, c090/91, Off east coast of North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WSRZ, HIZ, WAZ, etc.

WBR Warramunga Arr 44.23 273 P P 16 51 12.3 +0.1

WRA Warramunga Arr 44.23 273 P P 16 51 13.0 -0.4

WRR Warramunga Arr 44.23 273 P P 16 51 13.6 +0.2

WBO Warramunga Arr 44.23 273 P P 16 51 13.8 +0.2

FITZ Fitzroy Crossi 52.55 270 P P 16 52 17.2 +0.4

CASY Casey 54.73 208 P P 16 52 30.8 -1.2

QSPA South Pole Qui 59.14 180 P P 16 53 03.7 +0.2

SNAA Sanae 77.58 178 P P 16 54 58.2 -0.3

MKAN Makanchi Arr 118.29 310 PKP PKiKp 17 01 51.1 +1.4

KURBB Kurchatov Arr 121.62 313 PKP PKiKp 17 01 56.2 +0.2

FIAT FINESS Array S 145.75 340 PKPb PKPb 17 02 41.3 0.0

FINES FINESS Array B 145.75 340 PKPb PKPb 17 02 40.7 -0.1

FINES FINESS Array B 145.75 340 PKPb PKPb 17 02 41.1 -0.2

HFS Hagfors 149.84 349 PKPb PKiKp 17 02 53.0 0.0

MMAI Mount Meron Ar 151.85 283 PKPb PKiKp 17 02 57.9 -0.2

AKASE Malin Array Be 151.87 322 PKPb PKPb 17 02 57.0 -0.1

BRTR Keskin Array B 153.04 298 PKPb PKiKp 17 03 02.7 +2.3

ISC 19 16:45:36.4, 2.4, 2°55'N; 127°51'E, h0km, mb3.6/3, mbtmp3.6/3, Error ellipse: s-maj=199.5km s-min=23.7km

DJA 19 16:45:49.9, 0.5, 2°N; 3°12'E, h102km, 5km, M3.9/9, MLV3.9/9

ISC 19 16:45:49.4, 1.5, 2°42'N; 0°08'127.6E, 0.1, h100km, n7, c123/9, mb3.2/3, Northern Moolua Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like TINTI, SGSI, KMSI, SARI, etc.

JMA 19 16:54:32.4, 0.1, 38°6'N; 0°4'139.4E; 0.03, h12km, 1km, MV0.6/10, OFF N NIIGATA PREF, Near west coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JAW, JVA, JYK, etc.

BUI 19 16:55:41.3, 34°80'N; 140°71'E, h70km, mb4.7/18, mb4.7/55

MOS 19 16:55:45.1, 1.2, 35°01'N; 140°52'E, h69km, mb4.9/52, Error ellipse: s-maj=7.6km s-min=4.1km az=112.2

JMA 19 16:55:47.8, 0.2, 35°0N; 0°6'140.2E; 0.7, h76km, 1km, MD4.4/39, MW4.4/39, SE OFF BOSO PENINSULA

JMA Feil Ji at SE OFF BOSO PENINSULA, JMA 19 16:55:47.8, 35°01'N; 140°20'E, h76km, MW4.4, Moment Tensor Solution, s7 Moment tensor: Scale 10^15 Nm...

NIED 19 16:55:47.8, 0.2, 35°01'N; 140°20'E, h76km, MW4.4, Moment Tensor Solution, s7 Moment tensor: Scale 10^15 Nm...

NEIC 19 16:55:48.2, 1.9, 34°99'N; 0°05'140.2E; 0.9, h71km, 2km, mb4.7/81, Error ellipse: s-maj=10.5km s-min=7.7km az=94.0

ISC 19 16:55:49.0, 1.7, 34°88'N; 140°07'E, h78km, 13km, mb4.1/25, mbtmp4.4/27, MS3.1/12, Error ellipse: s-maj=16.8km s-min=1.1km az=73.0

ISC 19 16:55:47.0, 0.4, 35°00'N; 0°03'140°29'E; 0.04, h70km, 3km, BRTR P, n392, c1653/389, mb4.6/139, 7C-32D, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BS04, BS04, KATSU, etc.

19D 16h

Table with columns for station code, name, frequency, and signal strength. Includes stations like JSD Sagara, JHJ2 Mitsune, JKT Katashina, etc.

2019 JUN

Table with columns for station code, name, frequency, and signal strength. Includes stations like XLT comp=E,8.0nm,0.9s, HNS HongShan, ZEA Zeya, etc.

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Table with columns for station code, name, frequency, and signal strength. Includes stations like MK31 Makanchi Array, MKAR Makanchi Array, C16K Lisburne Hills, etc.



19d 17h

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Horta, Manadas, Pico, Candelaria, Prainha do Nor, Ribeirinha, Serra de Santa, Agualva, Azore, Serra do Cume, Sete Cidades, CMLA, BART, PSMN, ESDC, Midelt, BORG, TORO, and AKASG.

Table with columns: BRTR, PDAR, TXAR, KURBB. Includes station names like Keskin Array B, Pinedale Array, Lajitas Array, and Kurchatt Arra.

IDC 19 16:56:20.7:2.1, 30.905:177.26W, h0km, mb3.5/3, mbtmp3.5/3, Error ellipse: s-maj=60.4km s-min=42.3km az=40.0, Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Alice Springs, Warramang Arr, and Fines Fines Array B.

JMA 19 16:56:27.4:0.1, 38.7N:0.3:139.4E:0.3, h10km, mb3.5/3, MV2.4/19, OFF N NIIGATA PREF, Near west coast of the eastern Honshu

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Awa shima, Atsumi, Tobi-shima, and Kaneyama.

IDC 19 17:09:25.9:0.6, 40.54N:29.40W, h0km, mb3.9/22, mbtmp3.9/23, ML3.9/1, MS4.3/18, Error ellipse: s-maj=18.0km s-min=12.6km az=162.0

NEIC 19 17:09:27.2:2.0, 40.51N:0.09:29.32W, h10km, mb4.6/117, Error ellipse: s-maj=16.1km s-min=9.3km az=164.0

BGR 19 17:09:27.1, 40.54N:30.45W, h33km, mb4.4, Ms4.3, IGL 19 17:09:27.8, 40.28N:29.35W, h10km, Mb4.2, INMG 19 17:09:28.4:1.4, 40.62N:29.32W, h10km, ML4.4, Error ellipse: s-maj=7.4km s-min=4.5km az=80.0

#DIST\_RANGE: REGIONAL #PMA\_REGION: Crista Mdia Atlantico N

SVSA 19 17:09:28.4:1.4, 40.62N:29.32W, h10km, ML4.4(INMG), Error ellipse: s-maj=7.4km s-min=4.5km az=80.0, #DIST\_RANGE: REGIONAL #PMA\_REGION: Crista Mdia Atlantico N

GCMT 19 17:09:30.2:0.2, 40.81N:0.02:29.21W, h0.02, h12km, MW5.0/92, Moment Tensor Solution. s35,c45; s92,c148; Duration: 0 Moment tensor: Scale 10^19Nm; Mir-3.82:10; Mw0.49; 11; Mw3.34; 0; Mw3.04; 41; Mw0.74; 09; Mw-0.52; 30; Best double couple: M4.49900:1013

NP1: 350.00000; 849.00000; -128.00000; NP2: 221.00000; 854.00000; -155.00000; Principal axes: T 3.5330, P1g3.0000, Azm286.0000; N 1.9410, P1g21.0000, Azm18.0000; P -5.4650, P1g62.0000; Azm191.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 19 17:09:27.3:0.4, 40.47N:0.04:29.25W, h0km, n226, c238/246, mb4.5/79, MS4.1/17, 6D, Azores Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Serra Branca, Graciosa, Flores T-PHASE, Cedros, Rosais, Caldeira, and Angra Heroismo.

Table with columns: Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Castelo Branco, Horta, Pico, Prainha do Nor, Ribeirinha, Serra de Santa, Agualva, Azore, Serra do Cume, Angra Heroismo, and Sete Cidades.







Table with columns for station code, name, frequency, and signal strength. Includes stations like LWLI Liwa, CNB Canberra Magne, ARPS Mount Arapiles, etc.

Table with columns for station code, name, frequency, and signal strength. Includes stations like CNSH comp=Z,11um,20.2s, CNSH comp=Z,24um,18.2s, MNSI Mandailing Nat, etc.

Table with columns for station code, name, frequency, and signal strength. Includes stations like DL2 comp=Z,4um,9.4s, DL2 comp=Z,29um,17.7s, DL2 comp=Z,18um,18.8s, etc.





19d 17h

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like CHM Chinkent, BRZS Berezniki, SBA Kusilvak Mount, etc.

2019 JUN

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like L16K Owhat River, Q16K King Salmon, J16K Anvik River, etc.

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Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, and other parameters. Includes stations like KDAK Kodiak Island, N19K Bonanza Creek, J18K Innoko River, etc.

BRSE	baz=252	S	S	17 47 26.4	-0.8	
C19K	baz=252 Lookout Ridge comp=Z,19um,21.0s	82.41	19	Iamb	Iamb	17 37 37.2
C19K	baz=252 Lookout Ridge baz=243,SNR=19	82.41	19	P	P	17 37 11.7 -0.3
C19K	baz=243	S	S	17 47 27.1	-0.2	
I20K	baz=248 Naaghedeneel baz=248	82.45	23	P	P	17 37 11.7 -0.5
I20K	baz=248	S	S	17 47 28.5	+0.9	
MAW	baz=248 Matwson comp=Z,6.2nm,0.8s,baz=80,slow=5.9,SNR=32	82.45	202	P	P	17 37 12.4 +0.3
MAW	baz=248	S	S	17 47 26.7	-1.0	
A19K	baz=241 Wainwright baz=241	82.47	17	P	P	17 37 11.9 -0.2
A19K	baz=241	S	S	17 47 28.2	+0.5	
E19K	baz=241 Redstone River comp=Z,119nm,0.9s	82.47	21	Iamb	Iamb	17 37 35.0
E19K	baz=241 Redstone River baz=245	82.47	21	P	P	17 37 11.6 -0.7
E19K	baz=245	S	S	17 47 28.6	+0.7	
CAPN	baz=245 Captain Cook N comp=Z,19um,21.0s	82.50	28	IAMS_20	IAMS_20	18 09 11.8
CAPN	baz=245	P	P	17 37 11.2	-1.3	
CAPN	baz=252	S	S	17 47 28.3	+0.1	
H20K	baz=252 Anotleneega Mo baz=248,SNR=16	82.55	23	P	P	17 37 12.7 -0.1
H20K	baz=248	S	S	17 47 30.7	+1.9	
D19K	baz=248 Kuna River comp=Z,124nm,1.0s	82.61	19	Iamb	Iamb	17 37 38.4
D19K	baz=248	P	P	17 37 12.4	-0.6	
D19K	baz=244	S	S	17 47 28.1	-1.3	
SKT	baz=244 Skwentna comp=Z,18um,20.0s	82.71	27	IAMS_20	IAMS_20	18 10 04.4
SKT	baz=244	P	P	17 37 11.7	-2.0	
SKT	baz=251	S	S	17 47 28.2	-2.4	
PPLA	baz=251 Purkeypile comp=Z,19um,21.0s	82.72	26	IAMS_20	IAMS_20	18 09 30.7
PPLA	baz=251	P	P	17 37 12.6	-1.2	
PPLA	baz=250,SNR=12	S	S	17 47 32.4	+1.5	
F20K	baz=250 Avaragt Lake comp=Z,108nm,1.0s	82.84	21	Iamb	Iamb	17 37 39.4
F20K	baz=250	P	P	17 37 13.7	-0.5	
F20K	baz=247,SNR=33	S	SKSac	17 47 33.9	-0.8	
SLKM	baz=247 Skilak Lake comp=Z,14um,20.0s	82.85	28	IAMS_20	IAMS_20	18 11 58.3
SUA	baz=247	Iamb	Iamb	17 37 35.6		
SUA	comp=Z,107nm,1.0s	82.90	27	IAMS_20	IAMS_20	18 10 31.5
SUA	baz=251	S	S	17 47 32.5	-0.2	
SUA	comp=Z,15um,21.0s	82.90	27	P	P	17 37 12.3 -2.5
SUA	baz=252,SNR=10	S	S	17 47 32.5	-0.2	
CAST	baz=252 Castle Rocks comp=Z,88nm,1.2s	82.94	25	Iamb	Iamb	17 37 29.8
CAST	baz=252	IAMS_20	IAMS_20	18 12 51.5		
CAST	baz=251,SNR=14	P	P	17 37 13.0	-1.9	
CAST	baz=251	S	S	17 47 31.9	-1.0	
CHUM	baz=251 Lake Minchumin baz=250	83.00	25	P	P	17 37 13.4 -1.7
CHUM	baz=250	S	S	17 47 33.9	+0.5	
FIS	baz=250 Fire Island comp=Z,20um,21.0s	83.05	28	IAMS_20	IAMS_20	18 10 25.3
O22K	baz=253 Cooper Landing baz=253	83.08	28	P	P	17 37 14.5 -1.1
O22K	baz=253	S	S	17 47 33.0	-1.3	
SEW	baz=253 Seward comp=Z,23um,21.0s	83.10	29	IAMS_20	IAMS_20	18 10 11.9
SEW	baz=253	P	P	17 37 14.1	-1.5	
SEW	baz=253	S	S	17 47 34.4	-0.1	
E20K	baz=253 Nigu River baz=246	83.16	20	P	P	17 37 15.1 -0.8
E20K	baz=246	S	S	17 47 33.5	-1.6	
IMAR	baz=246 Indian Mountai D20K	83.17	22	P	P	17 37 14.3 -1.6
D20K	baz=246	Iamb	Iamb	17 37 35.6		
D20K	comp=Z,65nm,1.1s	83.21	19	P	P	17 37 15.4 -0.7
D20K	baz=246	S	S	17 47 34.5	-0.9	
RC01	baz=246 Rabbit Creek A comp=Z,133nm,0.9s	83.25	28	Iamb	Iamb	17 37 30.8
RC01	baz=246	IAMS_20	IAMS_20	18 10 30.8		
RC01	comp=Z,22um,21.0s	83.25	28	P	P	17 37 15.0 -1.4
RC01	baz=253,SNR=20	S	S	17 47 34.7	-1.3	
M22K	baz=253 Willow baz=252	83.28	27	P	P	17 37 15.5 -1.0
M22K	baz=252	S	S	17 47 35.3	-0.9	
CUT	baz=252 Chulitna comp=Z,19um,21.0s	83.41	26	IAMS_20	IAMS_20	18 10 26.9
CUT	baz=252	P	P	17 37 16.3	-0.9	
CUT	baz=252	S	S	17 47 36.4	-1.1	
H21K	baz=252 Melozitna River comp=Z,16um,22.0s	83.42	23	IAMS_20	IAMS_20	18 09 54.8
H21K	baz=252	P	P	17 37 16.9	-0.3	
H21K	baz=250,SNR=18	S	SKSac	17 47 38.9	+0.2	
G21K	baz=250 Allakaket baz=249	83.45	22	P	P	17 37 16.2 -1.2
G21K	baz=249	S	SKSac	17 47 38.7	-0.2	
KTH	baz=249 Kantishna Hill comp=Z,142nm,1.2s	83.48	25	Iamb	Iamb	17 37 32.1
KTH	baz=249	IAMS_20	IAMS_20	18 13 06.7		
SOHO	baz=249	83.53	294	P	P	17 37 18.0 -0.7
B20K	baz=249	83.57	18	Iamb	Iamb	17 37 36.5
B20K	baz=249	P	P	17 37 17.7	-0.2	
B20K	baz=245,SNR=14	S	S	17 47 38.5	-0.4	
BPAW	baz=245 Bear Paw Mtn. baz=252,SNR=8.9	83.63	25	P	P	17 37 17.9 -0.4
BPAW	baz=252	S	SKSac	17 47 40.4	+0.3	
PMR	baz=252 Palmer comp=Z,23um,21.0s	83.68	27	IAMS_20	IAMS_20	18 11 07.1
PMR	baz=252	P	P	17 37 22.6	+4.0	
PMR	baz=252	P	P	17 37 20.8	+2.2	
PMR	baz=253,SNR=11	P	P	17 37 17.1	-1.5	
PMR	baz=253	S	S	17 47 39.0	-1.3	
TRF	baz=253 Thorofore Moun comp=Z,14um,22.0s	83.72	25	IAMS_20	IAMS_20	18 09 60.0
TRF	baz=253	P	P	17 37 17.7	-1.3	
TRF	baz=252,SNR=13	S	S	17 47 39.2	-1.8	
F21K	baz=252 Alatina River comp=Z,19um,21.0s	83.72	21	IAMS_20	IAMS_20	18 14 10.8
F21K	baz=252	P	P	17 37 18.8	0.0	

F21K	baz=249 Glory Hole Cre comp=Z,166nm,1.3s	83.83	27	Iamb	Iamb	17 37 34.2
GHO	comp=Z,21um,21.0s	83.84	28	IAMS_20	IAMS_20	18 10 40.9
PWL	Port Wells comp=Z,18um,20.0s	83.84	28	IAMS_20	IAMS_20	18 13 57.5
PWL	Port Wells baz=254,SNR=18	83.84	28	P	P	17 37 18.5 -1.0
PWL	baz=254	S	S	17 47 42.0	-0.1	
UOSS	baz=254 Minazif comp=Z,23um,21.0s	83.91	295	P	P	17 37 19.1 -1.6
UOSS	baz=254	83.91	295	P	P	17 37 21.4 -2.3
UOSS	baz=254	83.94	28	IAMS_20	IAMS_20	18 10 52.0
KNK	Knik Glacier comp=Z,23um,21.0s	83.94	28	P	P	17 37 19.4 -0.6
KNK	Knik Glacier baz=254,SNR=24	83.94	28	S	S	17 47 43.3
HATD	baz=254 Hatta, Dubai 83.96	295	P	P	P	17 37 20.2 -0.7
MSFE	baz=254 Esma-Masaf 83.99	296	P	P	P	17 37 20.4 -0.6
C21K	Kniefbed Rid baz=247,SNR=34	83.99	19	P	P	17 37 19.9 -0.2
C21K	baz=247	83.99	20	P	P	17 37 19.2 -0.9
E21K	Killik River baz=246,SNR=11	83.99	20	P	P	17 47 42.7
E21K	baz=248	84.02	295	P	P	17 37 20.4 -0.8
ASHO	baz=248 Ashiyah comp=Z,151nm,1.4s	84.02	24	Iamb	Iamb	17 37 36.6
MLY	baz=248	84.02	24	P	P	17 37 20.1 -0.3
MLY	baz=252	84.05	23	P	P	17 47 44.1
H22K	baz=252 Ishlatina Cre baz=251,SNR=31	84.05	23	P	P	17 47 20.3 -0.1
H22K	baz=251	84.06	29	IAMS_20	IAMS_20	18 11 39.3
P23K	Montague Islan comp=Z,16um,20.0s	84.06	29	P	P	17 37 19.8 -0.8
P23K	Montague Islan baz=255	84.06	29	P	P	17 47 44.7
P23K	baz=255	84.07	296	P	P	17 37 20.3 -1.1
SHME	Shamm Sawmill baz=254,SNR=20	84.11	27	P	P	17 37 19.7 -1.2
SML	baz=254	84.20	320	Iamb	Iamb	17 37 32.3
AB31	Akbulak array comp=Z,113nm,1.1s	84.20	320	P	P	17 37 19.9 -1.6
ABKAR	Akbulak array comp=Z,114nm,1.1s	84.20	320	Iamb	Iamb	17 37 32.3
B21K	baz=254 Ikkipuk River comp=Z,123nm,1.1s	84.23	19	Iamb	Iamb	17 37 46.3
B21K	baz=254	84.23	19	P	P	17 37 20.4 -0.8
B21K	baz=248	84.24	294	P	P	17 47 46.8
ALNE	baz=248	84.28	25	IAMS_20	IAMS_20	18 13 22.8
BWN	baz=248	84.29	17	P	P	17 37 20.3 -1.2
A21K	baz=246 Barrow baz=246	84.29	17	P	P	17 47 47.6
A21K	baz=246	84.29	26	P	P	17 37 21.2 -0.6
WAT1	baz=254 Susitna Watana baz=254	84.29	26	P	P	17 47 44.6
WAT1	baz=254	84.29	21	P	P	17 37 21.2 -0.5
F22K	John River baz=250,SNR=19	84.29	21	P	P	17 47 46.7
F22K	baz=250	84.32	26	IAMS_20	IAMS_20	18 10 18.9
RND	Reindeer comp=Z,17um,22.0s	84.34	22	P	P	17 37 21.8 -0.1
G22K	baz=251	84.38	27	P	P	17 37 21.1 -1.2
M23K	Glacier View baz=255,SNR=11	84.38	27	P	P	17 47 46.7 -0.7
M23K	baz=255	84.38	25	P	P	17 37 20.7 -1.5
MCK	baz=255 McKinley baz=253,SNR=16	84.38	25	P	P	17 47 45.9
MCK	baz=253	84.40	295	P	P	17 37 21.8 -1.3
NAZ	baz=253 Nazwa, Dubai Glacier Island comp=Z,20um,22.0s	84.43	28	IAMS_20	IAMS_20	18 09 19.1
GLI	baz=253 Glacier Island comp=Z,25um,22.0s	84.43	28	P	P	17 37 21.0 -1.5
GLI	baz=255,SNR=39	84.44	30	IAMS_20	IAMS_20	18 11 14.4
Q23K	baz=255 Middleton Isla comp=Z,2um,20.0s	84.44	30	P	P	17 37 22.0 -0.5
Q23K	baz=256	84.45	27	P	P	17 37 22.2 -1.1
FAQ	baz=256 AI Faqa, Dubai Sheep Creek Mo comp=Z,16um,20.0s	84.47	27	IAMS_20	IAMS_20	18 11 33.7
SCM	baz=256	84.57	27	P	P	17 37 22.3 -1.0
SCM	baz=255,SNR=17	84.57	24	Iamb	Iamb	17 37 38.9
NEA2	baz=255 Nenana comp=Z,141nm,1.2s	84.57	24	P	P	17 37 22.0 -1.1
NEA2	baz=253,SNR=18	84.57	24	P	P	17 47 48.6
NEA2	baz=253	84.58	27	P	P	17 37 22.1 -1.3
WAT6	baz=255 Susitna Watana baz=255,SNR=22	84.58	27	P	P	17 47 49.4
WAT6	baz=255	84.59	20	Iamb	Iamb	17 37 42.0
D22K	baz=249 Ayikyak River comp=Z,127nm,1.2s	84.59	20	P	P	17 37 22.7 -0.5
D22K	baz=249	84.60	29	IAMS_20	IAMS_20	18 12 26.4
HIN	baz=249 Hinchinbrook I comp=Z,18um,20.0s	84.62	24	P	P	17 37 22.6 -0.7
I23K	baz=249 Minto, Yukon-K baz=253,SNR=22	84.62	24	P	P	17 47 50.5
I23K	baz=253	84.64	21	Iamb	Iamb	17 37 44.8
E22K	baz=253 Anaktuvuk Pass comp=Z,70nm,0.9s	84.64	21	P	P	17 37 22.9 -0.5
E22K	baz=250,SNR=24	84.65	18	P	P	







19d 17h

Table with columns for team names (e.g., SFX, W13A, TIRR), scores, and various abbreviations. Includes sub-sections like '19d 17h' and '19d 17h'.

2019 JUN

Table with columns for team names (e.g., ANMO Albuquerque, ANMO Albuquerque), scores, and various abbreviations. Includes sub-sections like '19d 17h' and '19d 17h'.

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Table with columns for team names (e.g., SOKA Soboth, ASSE Asse, Remlinge), scores, and various abbreviations. Includes sub-sections like '19d 17h' and '19d 17h'.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like HHAR Hobbs, I42A Draeger Farm, P40A Paris, UNM Universidad Na, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like MVO MVO, H62A Milan, PGAV Gavieira, HODGE Hodges, HNH Hanover, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like JTS Las Juntas de, CAMR Camarcia, LCO Las Campanas, SHEL Horse Pasture, etc.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HMB3, Humberstone, Huaiquique, Chacalluta, etc.

DJA 19 19:41:46.5,0.6,8.5S:5.12'E:1.1, h374km,6km, M3.8/13, mb3.9/6, MLV3.7/13
IDC 19 19:41:46.3,2.7,40S:125.48E, h374km,35km, mb2.6/1, mtbmp3.5/5, Error ellipse: s-maj=88.7km s-min=16.9km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SOEI, BATI, BATI, BATI, etc.

IDC 19 19:45:34.2,1.1,30.86S:178.01W, h0km, mb3.5/2, mtbmp3.5/2, Error ellipse: s-maj=292.2km s-min=59.5km az=156.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR, WRA, FINES, JMA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JHS, JOI, SONM, MKAR, etc.

IDC 19 19:55:30.3,1.0,28.34N:104.86E, h0km, mb3.5/6, mtbmp3.4/8, ML3.3/2, Error ellipse: s-maj=32.7km s-min=18.7km az=63.0
IDC 19 19:55:33.1,1.0,28.48N:104.9E:0.2, h19km, n8, o457/8, mb3.5/6, Sichuan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CMAR, SONM, KSRS, MKAR, etc.

IDC 19 20:09:42.1,2.3,34.65N:141.12E, h45km, 19km, mb3.4/9, mtbmp3.7/14, ML3.4/4, Error ellipse: s-maj=38.5km
JMA 19 20:09:47.0,2.3,34.7N:140.2E:0.6, h74km, 1km, MLV3.4/8, SE OFF BOSO PENINSULA

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BSO3, BSO3, BSO4, BSO4, etc.

IDC 19 20:28:47.0,0.8,34.60N:104.04:130.32E:0.05, h74km, 7km, n49, c1548/56, mb3.7/9, 5D, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MAJO, JGF, INU, JMM, etc.

Large table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like TXNET, NEIC, ISC, Code, Station Name, Az, Az', Phase ID, Time, Res.

IDC 19 20:12:26.6,1.2,33.86S:178.80W, h0km, mb3.9/3, mtbmp4.1/4, ML4.6/1, Error ellipse: s-maj=38.1km s-min=33.3km az=130.0
IDC 19 20:12:34.0,1.2,34.0S:179.0W:0.2, h50km, n11, o493/12, mb3.9/3, South of Kermadec Islands



Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ARCES ARCESS Array B, FINES ARCESS Array B, NB2 NORSAR Subarray 152, etc.

IDC 19:20:14:57.7:1.0, 33.72Sx178.94W, h0km, mb3.9/4, mbmpd:0.05, ML4.7/1, Error ellipse: s-maj=33.4km s-min=27.1km az=75.0

NEIC 19:20:14:58.2:0.6, 34.18Sx108.178.7W, h10km, 2km, mb4.2/5, Error ellipse: s-maj=27.4km s-min=13.0km az=104.0

WEL 19:20:14:59.1:0.8, 34.6Sx177.9W, h1.3, h33km, M4.5/12, mb5.1/7, ML4.7/16, MLV4.5/12, Mw(mb)4.4/7, Error ellipse: s-maj=18.3km s-min=4.5km az=111.0, confirmed

ISC 19:20:15:01.1:0.9, 34.10Sx105.07x178.5W, 0.1, h37km, n44, s164/60, mb4.1/7, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like MXZ Matakaoa Point, WMGZ Waiomatatini S, PKGZ Pakihiroa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like URZ Urewera, URZ Urewera, URZ Urewera, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like WRR Warramunga Arr, WRR Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like WB0 KNRA Kunurra, CASY Casey, FITZ Fitzroy Crossi, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like QSPA South Pole Qui, SNAA Snae, KURBB Kurchatov Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ARCES ARCESS Array B, FINES ARCESS Array B, NB2 NORSAR Subarray 152, etc.

NOU 19:20:31:58.7:40.30S, 172.83E, h316km, MLV3.8/5, Off W. Coast of S. Island, N.Z. WEL 19:20:32:21.7:0.7, 42.5Sx177.3E, h60km, 7km, M2.6/9, ML3.0/10, MLV2.6/9, Error ellipse: s-maj=6.9km s-min=5.6km az=70.0, confirmed

ISC 19:20:32:21.7:1.5, 41.76Sx104.172.83E, 0.0/4, h73km, 10km, n23, s059/32, South Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like THZ Tophouse, MATW Matariki Wadsw, MRNZ Matariki Terra, etc.

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SOME 19:20:33:03.0, 39.65N, 72.50E, h10km KNET 19:20:33:04.8, 0.1, 39.11N, 71.62E, h14km, mb3.4 NNC 19:20:33:06.4, 5.9, 39.01N, 71.49E, h0km, mb3.6, mpv3.3, Error ellipse: s-maj=58.6km s-min=29.4km az=169.0

ISC 19:20:33:05.8, 1.2, 39.15N, 0.06, 71.62E, 0.0/4, h10km, n26, s253/50, 24C-23D, Tajikistan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like DRK Karamyk, DRK Karamyk, GARM Garm, BATK Batken, etc.

NEIC 19:20:38:41.8:0.2, 37.66N, 0.101x105.48W, 0.06, h5km, 1km, ML1.6/14, Error ellipse: s-maj=8.7km s-min=3.1km az=261.0, Colorado

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SDCO Great Sand Dun, SDCO 340nm, 0.1s, T25A Trinidad, etc.

TRN 19:20:45:44.0, 18.38N, 61.91W, h16km, MD4.0, Far North of Barbuda, Leeward Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like ANWB Willy Bob, ANWB Bethesda, ANWB Flemmings, etc.

IDC 19:20:50:00.5:7.9, 7.23S, 129.60E, h134km, 76km, mb3.7/3, mbmpd:3.7, Error ellipse: s-maj=85.3km s-min=20.2km az=53.0

NEIC 19:20:50:01.6:1.7, 7.18S, 0.08x129.62E, 0.07, h142km, 9km, mb4.1/1.1, Error ellipse: s-maj=13.0km s-min=8.4km az=206.0

DJA 19:20:50:01.3:0.4, 7.3S, 13.0E, h183km, 7km, M4.5/15, mb5.0/6, mb4.4/11, MLV4.6/15, Mw(mb)4.3/6

ISC 19:20:50:01.5:0.6, 7.28S, 0.04x129.51E, 0.05, h150km, n68, s274/77, mb3.8/6, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, SAUI Saumlaki, SAUI Saumlaki, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SWI Sorong, BBSI Bau Bau, MMRI Maumere, etc.

MAKZ Makanchi, MAKZ Makanchi, ZALV Zalesovo Beam, ZALV Zalesovo Beam, VNSA Vanda, VNSA Kurchatov, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like AB31 Akbulak array, ABKAR Akbulak array, etc.

NOU 19:20:50:18.6, 15.34S, 166.29E, h0km, MLV5.0/18, Vanuatu Islands, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SANVU Saraoutou, SANVU Saraoutou, VLAKA Lakatoro, etc.

LDG 19:20:58:25.6:0.1, 44.84N, 7.25E, h9km, Md2.7/2, M3.0/31, Error ellipse: s-maj=1.7km s-min=1.3km az=76.0

GEN 19:20:58:25.5:44.84N, 7.21E, h13km, M2.6, ROM 19:20:58:25.3:0.1, 44.807N, 0.008, 7.20E, 0.01, h13km, 1km, ML2.6/58, Error ellipse: s-maj=1.1km s-min=0.3km az=252.0

PRU 19:20:58:26.1, 45.39N, 7.11E, h0km STR 19:20:58:26.2:0.2, 45.1N, 7.11E, h0km, MLV2.9/13, Error ellipse: s-maj=0.0km s-min=0.0km az=80.3, preliminary

ISC 19:20:58:25.5:0.7, 44.82N, 0.01x7.20E, 0.01, h16km, 4km, n146, s185/222, 7C, Northern Italy

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like BHB Bricherasio, BHB Bricherasio, BHB Bricherasio, etc.







Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like GRRZ Galatos Road, SNGZ Shannon Statio, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like LTHK Lithakia, ORTH Orthonies,Zaky, etc.

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like FORT Forrest, FITZ Fitzroy Crossi, etc.

19d 22:30:41.1+1.1, 30:275s:177:7W, h0km, mb4.0/5, mbmp3.0/5, Error ellipse: s-maj=3.4km s-min=29.4km az=34.0

NEIC 19 22:30:46.8+0.5, 30:475s:0:08:177:87W:0.04, h35km,2km, mb4.6/7, Error ellipse: s-maj=13.0km s-min=5.9km az=173.0

ISC 19 22:30:47.7+1.0, 30:405s:0:09:177:9W:0.2, h46km, n24, g574/22, mb4.1/9, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like RAO Raoul Island, STKA Stephens Creek, etc.

ATH 19 22:36:26.6, 37:69N:20:68E, h18km, ML3.2/12, Manual Solution by M.Papanikolaou First location: 2019/06/19 22:37:20, This location: 2021/06/07:20:26:38 ML

Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 2 km; Longitude uncertainty: 1 km

IDC 19 22:36:33.0+1.3, 37:20N:20:51E, h112km,25km, mb2.9/5, mbmp3.2/9, MS3.0/1, Error ellipse: s-maj=34.5km s-min=11.0km az=17.0

ISC 19 22:36:27.5+0.9, 37:70N:0:03:20:75E:0.03, h14km,5km, n65, +15/20, mb3.1/5, Ionian Sea

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like LTHK Lithakia, ORTH Orthonies,Zaky, etc.

IDC 19 22:42:14.9+5.0, 19:53S:177:92W, h579km,54km, mb3.2/9, mbmp4.1/10, Error ellipse: s-maj=30.0km s-min=19.4km az=62.0

NEIC 19 22:42:14.7+1.9, 19:65S:0:1:177:92W:0.06, h571km,8km, mb4.1/18, Error ellipse: s-maj=18.5km s-min=7.6km az=177.0

ISC 19 22:42:15.0+5.0, 19:65S:0:1:177:86W:0.10, h600km, n47, +15/16/47, mb3.9/17, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like MSVF Nonsavu, FUTU Futuiga, etc.

WEL 19 22:48:42.5, 37:55S:177:14E, h7km, ML3.3, Mw3.4, Moment Tensor Solution, s3 Moment tensor: Scale 10^14 Nm; Mn=-0.81; Mw=0.23; Mxx=0.58; Mxy=0.14; Mxz=1.17; Mxy=0.63; Fault plane solution: M1=4.40000e+10 Np1: phi=91.00000; delta.00000; lambda.130.00000; NP2: phi=76.00000; delta.00000; lambda.34.00000; Principal axes: T=1.7100, P1g13.00000, Azm309.00000; N=0.5450, P1g36.00000, Azm209.00000; P=1.1650, P1g51.00000, Azm55.00000; Stations used: URZ MWZ RTZ

OBLIQUE-NORMAL FAULTING WEL 19 22:48:42.5+0.4, 38:53S:177:17E, h4km,3km, ML3.3/31, ML3.6/20, MLV3.3/31 Error ellipse: s-maj=3.9km s-min=3.6km az=159.3, confirmed, Off east coast of North Island

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like WSRZ White Island S, WIZ White Island, etc.

PRU 19 22:56:57.9, 49:84N:18:51E, h0km IPEC 19 22:56:56.4+0.3, 49:84N:18:56E, h1km, ML1.4/4, Error ellipse: s-maj=2.1km s-min=1.7km az=69.0, Czech and Slovak Republics

Table with columns: Code, Station Name, Az, Az', Op, Phase, ID, ISC, h, m, s, Res. Includes stations like OKC Ostrava-Krasne, OKC OKC, etc.

Table with columns: STATION, Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC. Includes stations like KRUC, OSTC, MODS, UPC, CHVC, STHS.

MOS 19 23:02:58.3:0.9:3.95S:76.04W,h111km,mb5.1/44, Error ellipse: s-maj=10.3km s-min=5.5km az=104.3

NEIC 19 23:02:59.8:4:10S:76.00W,h100km, Moment Tensor Solution. Duration: 1s4. Moment tensor: Scale 10^10Nm;

NEIC 19 23:02:59.8:4:10S:76.00W,h100km, Moment Tensor Solution. Duration: 1s4. Moment tensor: Scale 10^10Nm;

NEIC 19 23:02:59.8:1.6:4.00S:0.06:75.99W:0.06:h107km,5km, mb5.1/173,Mww4.9/13 Error ellipse: s-maj=9.6km

NEIC 19 23:02:59.8:4:00S:76.00W,h100km, Moment Tensor Solution. Duration: 1s4. Moment tensor: Scale 10^10Nm;

NEIC 19 23:02:59.8:0.3:4.00S:76.00W,h114km,2km,mb4.4/31, IDC 19 23:02:59.8:0.3:4.00S:76.00W,h114km,2km,mb4.4/31,

VAO 19 23:03:00.0:0.5:3.99S:75.87W,h117km,3km,mb5.1, RSN 19 23:03:00.0:0.3:4.01S:0.03:76.08W:0.04,h113km,3km,

GCMT 19 23:03:01.8:0.3:4.01S:0.03:76.08W:0.04,h113km,3km, Mw4.9/85, Moment Tensor Solution. s28,c32; s85,c114;

BGR 19 23:03:09.0:3:51S:73.92W,h121km,2km,mb4.7, ISC 19 23:02:59.8:0.3:4.02S:0.03:76.04W:0.04,h117km,2km,

Main station list table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC. Lists numerous stations across various regions.

Main station list table with columns: STATION, Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC. Lists numerous stations across various regions.

Main station list table with columns: STATION, Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC. Lists numerous stations across various regions.



MNTX	comp=Z,17nm,0.8s	IAMB	IAMB	23 11 06.8
M65A	Busby, Falmout baz=167	45.62	6 P	23 11 09.7 +1.2
KANO1	Argonia South	45.68	336 P	23 11 09.1 +0.1
BNY	Binghamton	46.00	0 P	23 11 12.0 +0.6
WES	Weston	46.38	5 P	23 11 14.8 +0.4
WES	Weston	46.38	5 P	23 11 14.8 +0.4
HRV	Adam Dzewonsk	46.48	5 P	23 11 15.7 +0.5
HRV	Adam Dzewonsk	46.48	5 P	23 11 15.7 +0.5
K57A	Scipio Center	46.53 360	P	23 11 16.0 +0.5
HSGT	46.92 317	P	P	23 11 19.1 +0.1
PECO	Prince Edward	47.74 359	P	23 11 24.8 -0.1
PECO			IAMB	23 11 26.1
Y22D	IRIS PASCALL I baz=196	47.79 325	P	23 11 26.8 +1.1
CBKS	Cedar Bluff	47.91 335	P	23 11 27.0 +0.5
CBKS	Cedar Bluff	47.91 335	P	23 11 27.0 +0.5
ANMO	Albuquerque	48.16 326	P	23 11 29.6 +1.0
ANMO	Albuquerque	48.16 326	P	23 11 29.6 +1.2
ANMO	comp=Z,6.7nm,0.9s,baz=223,slow=8.2,SNR=125		P	23 11 55.6 -0.4
ANMO	Albuquerque	48.16 326d	P	23 11 29.5 +1.0
ANMO	comp=Z,6.2nm,0.9s		P	23 11 29.6 +1.0
ANMO	Albuquerque	48.16 326	P	23 11 29.6 +1.0
SADO	Sadowa	48.64 357	P	23 11 31.0 -0.9
SADO			IAMB	23 11 32.6
WBO	Williamsburg	48.80	1 P	23 11 33.1 0.0
WBO			IAMB	23 11 34.0
TUC	Tucson	48.92 320	P	23 11 35.0 +0.7
TUC			IAMB	23 11 35.8
TUC	Tucson	48.92 320	P	23 11 35.0 +0.7
TUC			P	23 11 34.8 +0.5
TUC			P	23 12 02.9 +1.2
MNTQ	Montreal, Queb	49.34	2 P	23 11 37.6 +0.4
PKME	Peaks-Kenny Pk	49.43	6 P	23 11 38.1 +0.2
PKME			IAMB	23 11 39.5
GGN	Saint George	49.60	9 P	23 11 39.5 +0.3
HAL	Halifax	49.70	12 P	23 11 40.1 +0.2
HAL			IAMB	23 11 41.9
HAL	Halifax	49.70	12 P	23 11 40.1 +0.2
SDCO	Great Sand Dun	49.75 329	P	23 11 41.6 +0.8
TRQ	Mont Tremblant	50.03	1 P	23 11 42.6 +0.1
TRQ			IAMB	23 13 01.5
LMN	Caledonia Moun	50.65	10 P	23 11 46.4 -0.6
LMN			IAMB	23 11 47.7
OGNE	Ogajala	50.66 335	P	23 11 47.7 +0.3
GBN	Guysborough	50.88	13 P	23 11 48.8 0.0
GBN			IAMB	23 11 49.6
MVCO	Mesa Verde	50.94 327	P	23 11 49.7 0.0
MVCO			IAMB	23 11 51.8
COWI	Conover	51.23 348	P	23 11 50.4 -1.1
COWI			IAMB	23 11 50.8
ISCO	Idaho Springs	51.38 331	P	23 11 53.4 +0.3
ISCO	Idaho Springs	51.38 331	P	23 11 53.4 +0.3
ISCO			P	23 11 53.4 +0.3
WUJAZ	Wupatki	51.41 323	P	23 11 54.3 +1.1
LMQ	La Malbaie	51.59	5 P	23 11 54.1 0.0
LMQ			IAMB	23 11 55.7
BATG	Bathurst New B	51.83	9 P	23 11 56.0 +0.1
LDAQ	Lac Daran	51.93	4 P	23 11 57.0 +0.3
LDAQ			IAMB	23 11 58.4
ESJX	Sierra Juarez	52.16 316	P	23 11 59.0 +0.2
BLVC	Blythe	52.25 319	P	23 11 59.8 +0.6
BLVC			IAMB	23 12 01.5
HMU	Henry Muntz	52.71 326	P	23 12 03.7 +0.9
PFO	Pinyon Flats	53.45 318	P	23 12 08.6 +0.3
PFO	Pinyon Flats	53.45 318	P	23 12 08.9 +0.7
PFO	comp=Z,5.5nm,0.9s,baz=111,slow=7.0,SNR=8.9		P	23 13 13.5 -0.4
PFO	Pinyon Flats	53.45 318	P	23 12 09.3 +1.1
PFO	comp=Z,2.7nm,1.5s		P	23 12 09.2 +1.0
PFO	Pinyon Flats	53.45 318	P	23 12 09.2 +1.0
PFO			P	23 13 14.3 +0.4
TBO	Thunder Bay	53.73 349	P	23 12 08.3 -1.5
TBO			IAMB	23 12 09.6
RSSD	Black Hills	54.12 335	P	23 12 13.3 +0.3
RSSD			IAMB	23 12 14.9
RSSD	Black Hills	54.12 335	P	23 12 13.3 +0.3
RSSD			P	23 12 13.3 +0.3
RSSD	Black Hills	54.12 335	P	23 12 13.3 +0.3
RSSD			P	23 12 12.9 +1.2
RSSD	Agassiz Nation	54.91 344	P	23 12 17.3 -1.0
AGMN			IAMB	23 12 18.3
AGMN			IAMB	23 12 18.3
TPNV	Topopah Spring	55.34 321	P	23 12 23.1 +1.2
TPNV			IAMB	23 12 24.5
TPNV	Topopah Spring	55.34 321	P	23 12 23.1 +1.2
TPNV			P	23 12 23.1 +1.2
DUG	Dugway, Tooele	55.43 326	P	23 12 23.7 +1.2
DUG			P	23 12 23.7 +1.2
DRLN	Deer Lake	55.45 15	P	23 12 21.9 -0.2
DRLN			IAMB	23 12 22.9
PD31	Pinedale Array	55.57 330	P	23 12 23.4 -0.1
PD31			IAMB	23 12 24.6
PDAR	Pinedale Array	55.57 330	P	23 12 23.2 -0.3
PDAR	Pinedale Array	55.57 330	P	23 12 23.4 -0.1
PDAR	comp=Z,5.9nm,0.8s,baz=138,slow=9.0,SNR=45		P	23 12 50.6 -0.9
PDAR	comp=Z,1.5nm,0.6s,baz=135,slow=4.9,SNR=3.7		P	23 13 21.4 -0.5
PDAR	comp=Z,1.6nm,0.7s,baz=132,slow=4.5,SNR=4.0		P	23 12 22.3
PDAR	Experimental L	55.63 346	P	23 12 22.2 -1.3
EPO			IAMB	23 12 23.3
HWUT	Hardware Ranch	55.75 328	P	23 12 24.5 -0.2
AHID	Auburn Hatcher	56.34 329	P	23 12 28.8 -0.2
AHID			IAMB	23 12 30.0
TPH	Topopah	56.64 322	P	23 12 32.0 +0.8
TPH	Topopah	56.64 322	P	23 12 32.0 +0.8
TPH			P	23 12 32.0 +0.8
ULM	Lac du Bonnet	56.69 345	P	23 12 29.6 -1.4
ULM	Lac du Bonnet	56.69 345	P	23 12 29.7 -1.4
ULM	comp=Z,2.3nm,0.5s,baz=158,slow=7.7,SNR=54		P	23 13 25.5 -0.3
ULM	Experimental L	56.69 345d	P	23 12 29.5 -1.5
ULM	LASA Array	57.10 336	P	23 12 33.8 -0.3
ELK	Elko	57.17 325	P	23 12 35.5 +0.6
ELK	comp=Z,3.2nm,0.4s,baz=139,slow=4.1,SNR=16			

NVAR	comp=Z,3.2nm,0.4s			
NVAR	Mina Array Bea	57.53 321	P	23 12 38.6 +0.8
NVAR	Mina Array Bea	57.53 321	P	23 12 38.6 +1.1
NVAR	comp=Z,1.9nm,0.8s,baz=134,slow=6.9,SNR=73			23 13 05.5 -0.1
NVAR	comp=Z,4.1nm,0.8s,baz=109,slow=6.0,SNR=3.2			
LHV	Little Huntoon	57.55 321	P	23 12 38.6 +1.3
VHO	Holmes Hill	57.70 331	P	23 12 39.3 +0.7
CMB	Columbia Colle	58.62 320	P	23 12 45.3 +0.4
CMB	Columbia Colle	58.62 320	P	23 12 45.3 +0.4
DLMT	Dillon	58.96 331	P	23 12 47.7 +0.5
DLMT			IAMB	23 12 48.8
SCHO	Schefferville	59.14	6 P	23 12 48.1 +0.1
SCHO	comp=Z,7.2nm,1.3s,baz=197,slow=4.8,SNR=25			
LRM	Limekiln Ridge	59.22 331	P	23 12 49.4 +0.3
HOPE	Hope Point	59.51 154	P	23 12 52.2 +1.6
HOPE			P	23 13 21.6 +2.6
HOPE			P	23 13 39.3 +2.4
AFDM	Forest Hills D	59.52 320	IAMB	23 12 51.4 +0.3
AFDM			IAMB	23 12 52.6
WVOR	Wild Horse Val	60.20 325	P	23 12 55.9 +0.1
WVOR			IAMB	23 12 57.4
WVOR	Wild Horse Val	60.20 325	P	23 12 55.9 +0.1
WVOR			P	23 12 58.9 -0.2
J08A	Circle Bar Ran	60.70 326	P	23 13 00.8 -0.4
BMO	Blue Mountains	61.02 322	P	23 13 00.8 -0.4
BMO	Blue Mountains	61.02 328	P	23 13 00.8 -0.4
PMSA	Palmer Station	61.25 174	P	23 13 03.5 +1.3
YBH	Yreka Blue Hor	62.21 322	P	23 13 08.5 -0.8
FFC	Flin Flon	62.37 343	P	23 13 09.3 -0.6
FFC			IAMB	23 13 10.5
FFC	Flin Flon	62.37 343	P	23 13 09.3 -0.6
FFC			P	23 13 09.3 -0.6
FFC	Flin Flon	62.37 343	P	23 13 09.3 -0.6
FFC			P	23 13 38.2 -0.3
IO5D	Terrebonne, OR	62.93 325	IAMB	23 13 16.1
IO5D			IAMB	23 13 16.1
NEW	Newport	63.21 331	P	23 13 15.3 -0.4
NEW			IAMB	23 13 16.9
NEW	Newport	63.21 331	P	23 13 15.8 +0.1
NEW	comp=Z,1.7nm,0.8s			23 13 15.3 -0.4
NEW	Newport	63.21 331	P	23 13 15.3 -0.4
SMAI	San Martin Ant	64.30 176	P	23 13 23.1 +0.7
SMAI			IAMB	23 13 25.0
SMAI	comp=Z,3.3nm,1.1s			23 13 23.1 +0.7
MAI	Morro de la Aro	65.58 57	P	23 13 31.9 +0.2
PMOZ	Porto Moniz, M	66.61 52	eP	23 13 38.4 +0.3
PMOZ			IAMB	23 13 44.7
FRB	Frobisher Bay	67.82	4 P	23 13 44.6 -0.3
FRB			P	23 13 44.6 -0.3
IVI	Ivigtut	68.53	14 P	23 13 49.5 +0.2
IVI			IAMB	23 13 50.7
IVI	Ivigtut	68.53	14 P	23 13 49.2 -0.1
IVI			IAMB	23 13 50.4
IVI	Ivigtut	68.53	14 P	23 13 49.5 +0.2
IVI			P	23 14 18.9 +0.3
NRS	Narsarsuaq	69.18	15 P	23 13 53.8 +0.3
NRS			IAMB	23 13 54.0
NRS	Narsarsuaq	69.18	15 P	23 13 53.8 +0.3
NRS			P	23 13 53.8 +0.3
NRS	Narsarsuaq	69.18	15 P	23 13 53.1 -0.3
NRS			IAMB	23 13 53.9
NUUK	Nuuk	70.39	11 P	23 14 01.5 +0.7
NUUK			IAMB	23 14 02.1
BBB	Bella Bella	71.17 329	P	23 14 05.7 -0.1
BBB	comp=Z,1.3nm,0.7s,baz=112,slow=5.4,SNR=4.5			
DBIC	Dimbokro	71.85	82 P	23 14 11.1 +0.4
DBIC			IAMB	23 14 12.1
DBIC	Dimbokro	71.85	82 P	23 14 10.8 +0.2
DBIC	comp=Z,3.6nm,0.8s,baz=279,slow=5.3,SNR=24			
DBIC	Dimbokro	71.85	82 P	23 14 11.1 +0.4
DBIC			P	23 14 11.1 +0.4
DBIC	Dimbokro	71.85	82 P	23 14 10.9 +0.3
DBIC			P	23 14 11.7 +1.8
YKA	Yellowknife Ar	72.51 342	P	23 14 12.8 -0.8
YKA	Yellowknife Ar	72.51 342	P	23 14 12.6 -1.0
YKA	comp=Z,2.8nm,0.5s,baz=132,slow=5.8,SNR=41			23 14 42.4 -0.5
YKA	comp=Z,5.3nm,0.8s,baz=141,slow=5.4,SNR=9.6			
YKA	Yellowknife Ar	72.51 342	P	23 14 12.8 -0.8
YKA			P	23 14 16.3 -0.9
YKA	Yellowknife Ar	72.51 342	P	23 14 12.8 -0.8
YKA			IAMB	23 14 17.2
ILON	Ilgoolik, Nuna	73.34 358	P	23 14 18.0 -0.3
ILON			IAMB	23 14 18.8
TOAD	Toad River Com	73.77 336	P	23 14 21.2 +0.1
TOAD	baz=128,SNR=20			
KOTAN	Kotanele Air	74.11 337	P	23 14 23.9 +0.9
ISOG	Isortoq, Green	74.45	15 P	23 14 24.3 -0.5
ISOG			IAMB	23 14 25.4
PFVI	Vila Bisbo	74.52	50 P	23 14 25.9 0.0
PFVI	Vila Bisbo	74.52	50 P	23 14 27.0 +1.1
PFVI			IAMB	23 14 36.0
BEAVI	Fort Liard	74.53 337	P	23 14 26.4 +0.9
BEAVI	baz=129			
AVE	Averroes	74.55	54 P	23 14 26.7 +0.5
V35K	Ketchikan	74.62 331	P	23 14 26.9 +0.8
MORF	Marmelete	74.70	50 P	23 14 28.2 +1.2
MORF			IAMB	23 14 29.9
MORF	Marmelete	74.70	50 P	23 14 27.4 +0.3
MORF			IAMB	23 14 29.6
MORF	Marmelete	74.70	50 P	23 14 28.7 +1.7
MORF			IAMB	23 14 30.5
MORF	Marmelete	74.70	50 P	23 14 28.2 +1.2
MORF			P	23 14 28.5 +1.5
MORF	Marmelete	74.70	50 P	23 14 28.9 +1.4
MORF			P	23 14 28.2 -0.2
MORF	Marmelete	74.70	50 P	23 14 28.2
MORF	Sao Teotonio	74.72	49 P	23 14 30.7 +0.9
T35M	Goa Olenok	74.86 333	P	23 14 31.1 +1.0
ILULI	Ilulissat	75.05	9 P	23 14 30.7 +0.9
ILULI			IAMB	23 14 31.5
MESJ	Messejana	75.19	49 P	23 14 30.9 +1.1
MESJ			P	23 14 30.7 +0.9
MESJ	Messejana	75.19	49 P	23 14 31.1 +1.0
MESJ			P	23 14 31.0 +0.8
MESJ	So Bento	75.28	48 P	23 14 37.1
MESJ			IAMB	23 14 37.1
PCVE	Castro Verde	75.26	50 P	23 14 31.2 +1.0
CRAG	Groa Olenok	75.43 330	P	23 14 31.4 +0.7
PVAQ	Vaizeiros	75.44	50 P	23 14 31.6 +0.4
PVAQ			I	



Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like G19K Purcell Mounta, M16K Timber Creek, E20K Nigu River, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like M13K Dall Lake, NB2 NORSAR Subarra, NB2 NORSAR Array B, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like VYHS Vyhne, VYHS Vyhne, VYHS Vyhne, etc.

ADC 19 23:05:37.5i:0.5,31'00Sx177.44W,h0km,m4.4/10, mbmp4.3/12,ML3.8/2,MS4.2/1,Error ellipse: s-maj=21.4km,s-min=18.6km az=128.0, NEIC 19 23:05:42.4i:1.1,30'.84Sx0.08'177.6W,0.2,h17km,4km, mb4.9/35,Error ellipse: s-maj=19.1km,s-min=11.4km az=91.0, ISC 19 23:05:42.3i:0.4,41.3103Sx0.06'177.64W=0.08,h27km, n102,ε1935/105,mb4.8/26,2c,Kermadec Islands region



BBOO	Buckleboo	34.17 229	P	P	23 21 45.2 +0.2
KNRA	Kununnura	36.48 261	Iamb	Iamb	23 22 04.5 -0.5
KNRA	comp-Z,129nm,1.2s				23 22 19.9
KNRA	Kununnura	36.48 261	P	P	23 22 04.2 -0.8
SWI	Sorong	36.63 286	P	P	23 22 07.1 +0.7
BNDI	Gandaria	36.83 279	P	P	23 22 10.1 +2.1
FITZ	Fitzroy Crossi	39.51 257	P	P	23 22 29.5 -1.1
FITZ	Fitzroy Crossi	39.51 257	LR	LR	23 28 24.8
FITZ	Fitzroy Crossi	39.51 257	P	P	23 22 30.5 -0.1
FORT	Forrest	39.60 237	Iamb	Iamb	23 22 43.4
FORT	comp-Z,72nm,0.8s				23 39 18.0
FORT	Forrest	39.60 237	P	P	23 22 30.3 -0.9
FORT	comp-Z,103nm,0.7s				23 22 34.6 +1.0
FORT	Forrest	39.60 237	P	P	23 22 32.6 +1.4
NLAI	Namlea	39.87 280	P	P	23 22 34.6 +1.0
TNTI	Ternate	40.85 286	P	P	23 22 41.4 -0.4
TNTI	comp-Z,60nm,1.1s				23 23 07.8
TNTI	Ternate	40.85 286	P	P	23 22 44.0 +2.2
SANI	Sanana	41.26 281	P	P	23 22 46.4 +1.2
SOEI	Soe	41.29 270	P	P	23 22 46.6 +1.0
BATI	Baumata	41.82 269	P	P	23 22 52.2 +2.4
PPT	Papeete2	42.82 102	LR	LR	23 36 46.6
PPT2	Papeete2	42.82 102	ePKIKP	P	23 22 55.0 -3.0
PPT2	comp-Z,740nm,26.5s				23 24 33.4 -4.0
PPT2	Papeete2	42.82 102	eP	P	23 29 22.5 +0.4
PPT2	comp-Z,4um,27.5s				23 32 42.7 -6.0
PPT2	comp-Z,2um,27.0s				23 33 13.9
PPT2	comp-Z,15um,26.8s				23 34 53.6
PPT2	comp-Z,9um,29.8s				23 34 54.5
PPT2	comp-Z,12um,26.8s				23 39 11.7
PPT2	comp-Z,6um,18.0s				23 23 03.4 +2.0
TBI	Tubuai	43.26 111	eP	P	23 23 03.4 +2.0
TBI	Tubuai	43.26 111	ePP	PP	23 24 44.4 +2.4
TBI	comp-Z,2um,27.8s				23 29 29.6 +1.3
TBI	comp-Z,11um,27.2s				23 32 50.7 +8.9
TBI	comp-Z,8um,29.8s				23 33 25.6
TBI	comp-Z,37um,32.5s				23 35 02.9
TBI	comp-Z,4um,28.0s				23 35 06.3
MMRI	Maumere	43.44 271	P	P	23 23 04.8 +1.9
MIDW	Midway	43.58 21	IAMs_20	IAMs_20	23 41 41.0
SGSI	Sangihe	43.62 289	P	P	23 23 04.7 +0.4
EDFI	Ende, Flores	43.96 270	P	P	23 23 08.4 +1.2
PMOR	Pomario Rio	44.49 99	eP	P	23 23 17.2 +5.8
PMOR	comp-Z,271nm,1.3s				23 29 49.8 +3.3
LUWI	Luwuk	44.63 281	P	P	23 23 12.6 +0.0
LUWI	Luwuk	44.63 281	P	P	23 23 14.1 +1.6
LUWI	Luwuk	44.63 281	P	P	23 23 14.1 +1.6
VAH	Vaihoo	44.74 99	eP	P	23 23 18.2 +4.9
PSA00	Pillbara Seismi	45.13 252	IAMs_20	IAMs_20	23 23 16.7 +0.3
MBWA	Marble Bar	45.22 239	P	P	23 23 17.1 +0.3
BNSI	Bone	46.34 276	P	P	23 23 26.9 +0.9
KAPI	Kappang	46.55 275	Iamb	Iamb	23 23 27.9 -0.7
KAPI	Kappang	46.55 275	P	P	23 23 29.0 +1.3
KAPI	Kappang	46.55 275	iP	P	23 23 27.9 +0.2
MEEK	Meeekatharra	46.75 245	P	P	23 23 28.8 -0.4
MEEK	Meeekatharra	46.75 245	P	P	23 23 30.0 +0.8
SFSI	Sidrap Palu	46.77 276	P	P	23 23 30.6 +1.2
TOLIZ	Toiltoil	47.17 283	Iamb	Iamb	23 23 31.1 -1.4
TOLIZ	Toiltoil	47.17 283	P	P	23 23 33.6 +1.0
TOLIZ	Palu	47.48 280	P	P	23 23 37.8 +2.8
PLAI	Plampang	47.76 269	P	P	23 23 38.8 +1.6
MPSI	Mapaga	47.78 282	P	P	23 23 37.4 +0.1
KLBR	Kellerberrin	48.33 239	P	P	23 23 40.3 -1.0
KLBR	Kellerberrin	48.33 239	P	P	23 23 43.4 +2.0
HON	Honolulu	48.66 46	IAMs_20	IAMs_20	23 44 28.0
KIP	Kipapa	48.72 46	IAMs_20	IAMs_20	23 44 46.5
BLDU	Ballidu	49.03 240	P	P	23 23 48.6 +1.9
NWAO	Narogin (SRO)	49.04 237	Iamb	Iamb	23 23 46.0 -0.8
NWAO	Narogin (SRO)	49.04 237	IAMs_20	IAMs_20	23 44 55.7
NWAO	Narogin (SRO)	49.04 237	LR	LR	23 45 07.4
NWAO	Narogin (SRO)	49.04 237	P	P	23 23 46.9 +0.1
NWAO	Narogin (SRO)	49.04 237	P	P	23 23 46.0 -0.8
NWAO	comp-Z,73nm,0.9s				23 45 07.4
NWAO	comp-Z,11um,19.0s				23 45 07.4
NWAO	Narogin (SRO)	49.04 237	LR	LR	23 45 07.4
NWAO	Narogin (SRO)	49.04 237	P	P	23 23 46.9 +0.1
NWAO	Narogin (SRO)	49.04 237	P	P	23 23 46.0 -0.8
NWAO	comp-Z,73nm,0.9s				23 45 07.4
KHU	Kahuku	49.11 50	IAMs_20	IAMs_20	23 42 46.9
HUH	Hualalai	49.21 50	IAMs_20	IAMs_20	23 42 31.6
MWH	Mokuaweoweo	49.27 50	IAMs_20	IAMs_20	23 42 51.1
AIN	Ainahou	49.30 50	IAMs_20	IAMs_20	23 43 09.3
MORW	Morawa	49.35 243	P	P	23 23 48.5 -0.7
MORW	Morawa	49.35 243	IAMs_20	IAMs_20	23 44 45.1
MORW	Morawa	49.35 243	P	P	23 23 48.8 -0.5
MORW	comp-Z,52nm,1.4s				23 23 50.0 +0.8
HLR	Hilina Pali	49.35 243	P	P	23 23 50.0 +0.8
HMH	Humu'ula Sheep	49.42 50	IAMs_20	IAMs_20	23 42 56.4
MLW	Mauna Loa	49.43 50	IAMs_20	IAMs_20	23 42 55.6
UWE	Uwekahuna	49.46 51	IAMs_20	IAMs_20	23 42 47.2
POHA	Pohakuloa	49.48 50	IAMs_20	IAMs_20	23 43 06.9
HATHI	Halema'ua'u T	49.48 51	IAMs_20	IAMs_20	23 42 20.0
PUH	Pauahi	49.49 51	IAMs_20	IAMs_20	23 43 06.1
KHLH	Kahului Airoor	49.52 48	IAMs_20	IAMs_20	23 45 45.8
HPAH	Hawaii Prepaa	49.52 50	IAMs_20	IAMs_20	23 42 58.9
STCH	Steam Cracks	49.56 51	IAMs_20	IAMs_20	23 42 42.1
HLK	Haleakala	49.57 48	IAMs_20	IAMs_20	23 42 51.2
RKGY	Rocky Gully	49.63 235	P	P	23 23 51.0 -0.3
JOKA	Jonika Flow	49.68 51	IAMs_20	IAMs_20	23 43 02.3

MUN	Mundaring	49.70 239	P	P	23 23 51.9 +0.1
MUN	Mundaring	49.70 239	P	P	23 23 52.5 +0.7
MUN	Mundaring	49.70 239	P	P	23 23 57.4 +2.9
GIRL	Giralda	50.38 251	P	P	23 23 59.3 +2.1
JAGI	Jajaj, Banyuwa	51.36 269	P	P	23 24 06.1 +1.5
TAOE	Nuku Hiva Isla	52.69 92	IAMs_20	IAMs_20	23 43 06.1
TAOE	Nuku Hiva Isla	52.69 92	ePKIKP	P	23 24 13.5 -1.1
TAOE	comp-Z,467nm,25.6s				23 31 42.8 +0.4
TKOE	Kota Kinabatu	53.11 288	P	P	23 24 16.9 -0.9
TKOE	Kota Kinabatu	53.11 288	P	P	23 24 18.7 +1.0
JSG	Sagara	54.08 311	P	P	23 24 25.4 +0.1
PCJI	Pacitan	54.31 269	P	P	23 24 26.7 +2.4
UGM	Wanagama	54.99 269	P	P	23 24 30.9 -0.6
INU	Inuyama	55.18 331	P	P	23 24 32.5 +1.0
INU	Inuyama	55.18 331	P	P	23 24 34.0 +1.7
SMRI	Semarang	55.22 270	Iamb	Iamb	23 24 33.0 -0.2
SMRI	comp-Z,45nm,0.8s				23 24 48.1
SMRI	Semarang	55.22 270	P	P	23 24 34.5 +1.4
JGF	Kuroka	55.23 331	Iamb	Iamb	23 24 32.7 0.0
JGF	comp-Z,77nm,1.3s				23 24 36.1
JGF	Kuroka	55.23 331	P	P	23 24 33.6 +0.9
JMN	Monobe	55.48 327	P	P	23 24 35.1 +0.6
JMN	Monobe	55.48 327	P	P	23 24 36.9 +2.3
MJAR	Matsushiro Arr	55.61 333	P	P	23 24 35.3 -0.2
MJAR	comp-Z,76nm,1.1s,baz=161,slo=7.0,SNR=54				23 48 55.0
MAJO	Matsushiro	55.63 333	Iamb	Iamb	23 24 35.2 -0.3
MAJO	comp-Z,78nm,0.9s				23 24 38.4
MAJO	Matsushiro	55.61 333	P	P	23 24 36.5 +1.0
MAJO	Matsushiro	55.61 333	P	P	23 24 35.4 -0.1
JMM	Marumori	55.63 336	P	P	23 24 35.8 +0.3
JMM	Marumori	55.63 336	P	P	23 24 36.2 +0.7
STKI	Sintang	55.79 279	P	P	23 24 39.5 +2.3
JNU	Nakatsue	56.67 324	P	P	23 24 43.5 +0.4
JNU	Nakatsue	56.67 324	P	P	23 24 44.3 +1.2
YULB	Yu-li	56.74 309	Iamb	Iamb	23 24 44.0 +0.3
YULB	comp-Z,32nm,0.9s				23 25 02.6
YULB	Yu-li	56.74 309	P	P	23 24 44.7 +1.0
JSD	Sado	56.83 334	P	P	23 24 44.4 +0.3
JSD	Sado	56.83 334	P	P	23 24 45.1 +1.0
TPUB	Ta-pu	57.19 309	P	P	23 24 47.1 +0.2
TPUB	Ta-pu	57.19 309	P	P	23 24 48.1 +1.1
SSLB	Suanguang	57.22 309	Iamb	Iamb	23 24 45.7 -1.5
SSLB	comp-Z,39nm,1.1s				23 25 36.5
KSM	Kuching	57.29 280	P	P	23 24 47.5 -0.4
KSM	comp-Z,42nm,1.1s				23 25 03.8
KSM	Kuching	57.29 280	P	P	23 24 50.1 +2.2
YHNB	Yehng	57.40 310	Iamb	Iamb	23 24 48.6 +0.1
YHNB	comp-Z,54nm,1.1s				23 25 13.8
BBJI	Bungbulang	57.88 269	P	P	23 24 54.1 +2.0
LEM	Lembang	58.02 270	LR	LR	23 25 25.3
LEM	comp-Z,52nm,18.2s,baz=194,slo=40				23 25 54.3
LEM	Lembang	58.02 270	P	P	23 24 53.8 +0.6
JTM	Temnabayashi	58.05 338	P	P	23 24 52.7 0.0
JTM	Temnabayashi	58.05 338	P	P	23 24 44.3 +1.2
ERM	Erimo	58.39 340	Iamb	Iamb	23 25 02.5
ERM	Erimo	58.39 340	eP	P	23 24 55.1 +0.1
ERM	comp-Z,39nm,0.9s				23 25 55.1 +0.1
JTU	Tsushima	58.53 324	P	P	23 24 57.6 +1.5
OZH	Quanzhou	59.65 309	P	P	23 25 05.0 +0.9
OZH	comp-Z,51nm,1.5s				23 33 14.8 +0.5
OZH	comp-Z,1um,8.9s				23 25 05.0 +0.9
OZH	comp-Z,2um,11.0s				23 33 14.8 +0.5
OZH	comp-Z,1um,9.3s				23 33 14.8 +0.5
KUR	Kuril'sk	59.95 345	P	P	23 25 09.4 -0.8
KUR	Kuril'sk	59.95 345	iS	S	23 23 16.5 -1.0
KUR	comp-Z,3um,19.0s				23 25 09.4 +0.2
JKA	Kamikawa-asahi	60.45 341	P	P	23 25 09.4 +0.2
JKA	comp-Z,4um,20.0s				23 48 47.1
ASAJ	Asahikawa	60.45 341	P	P	23 25 09.4 +0.2
ASAJ	comp-Z,126nm,1.2s				23 25 09.4 +0.2
ASAJ	comp-Z,4um,20.0s				23 25 09.4 +0.2
TJNJ	Taejon	61.02 325	P	P	23 25 13.4 +0.2
TJNJ	comp-Z,7um,19.0s				23 51 08.8
TJNJ	Taejon	61.02 325	P	P	23 25 14.3 +1.1
TJNJ	Taejon	61.02 325	P	P	23 25 13.7 +0.5
SSE	Sheshan	61.35 316	P	P	23 25 16.1 +0.5
SSE	comp-Z,10.0nm,0.6s				23 33 35.9 0.0
SSE	comp-Z,300nm,3.8s				23 33 35.9 0.0
SSE	comp-Z,530nm,18.7s				23 33 35.9 0.0
SSE	comp-Z,560nm,19.4s				23 33 35.9 0.0
KSR5	Korea Array	61.48 326	P	P	23 25 17.1 +0.9
KSR5	comp-Z,6.0nm,0.8s,baz=139,slo=7.2,SNR=28				23 25 17.1 +0.9
KSR5	comp-Z,6.0nm,0.8s				23 25 17.1 +0.9
KSAR	Wonju Array Be	61.49 326	P	P	23 25 16.8 +0.4
KSAR	Wonju Array Be	61.49 326	P	P	23 25 16.8 +0.4
KS19	Wonju Array Si	61.54 326	Iamb	Iamb	23 25 16.9 +0.1
KS19	comp-Z,30nm,1.1s				23 25 29.1
INCN	Inchon	62.21 325	P	P	23 25 20.1 -1.2
INCN	Inchon	62.21 325	P	P	23 25 20.0 +2.7
INCN	Inchon	62.21 325	P	P	23 25 20.1 -1.2
INCN	comp-Z,143nm,1.7s				23 25 20.1 -1.2
DLV	Lat	62.33 291	Iamb	Iamb	23 25 21.9 -0.9
DLV	comp-Z,64nm,1.5s				23 25 37.9
DLV	Lat	62.33 291	P	P	23 25 24.5 +1.8
GZH	Guangzhou	62.81 304	P	P	23 25 27.5 +2.0
GZH	comp-Z,930nm,6.0s				23 33 57.3 +2.7
GZH	comp-Z,820nm,15.1s				23 33 57.3 +2.7
GZH	comp-Z,850nm,18.6s		</		







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Table with columns for station ID, name, coordinates, and various data points. Includes stations like HDA, CRAIG, MENT, COLA, YBH, ORV, I02E, RIDG, RIDG, RIDG, D19K, D19K, B16K, B21K, L26K, P29M, P29M, H23K, H23K, F21K, F21K, ILAR, ILAR, ILAR, AFDM, AFDM, HOLB, O29M, O29M, M27K, M27K, POKR, POKR, POKR, U33K, U33K, I03D, I03D, S32K, S32K, YUK8, C19K, C19K, E20K, YUK3, YUK3, G23K, G23K, G22K, MOY, MOY, J25K, J25K, SCRK, V35K, V35K, PLVC, PLVC, D20K, H24K, H24K, G23K, G23K, G26K, G26K, L27K, L27K, BUCK, T33K, T33K, P30M, P30M, R32K, R32K, R32K, R32K, RUBB, RUBB, WRAK, WRAK, WRAK, WRAK, YUK4, YUK4, BBB, BBB, J04A, J04A, HYT, HYT.

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Table with columns for station ID, name, coordinates, and various data points. Includes stations like HYT, K04D, BEKR, A19K, COLD, COLD, J26L, J26L, SKAG, SKAG, SKAG, PRP, ELS, K27K, K27K, E22K, E22K, G24K, NLWA, C21K, N30M, N30M, O30N, O30N, M29M, M29M, H25L, H25L, CBB, J05D, J05D, B20K, B20K, PAHR, PAHR, D22K, D22K, U35K, U35K, I26K, I26K, E23K, E23K, B21K, B21K, G25K, G25K, P32M, P32M, P32M, P32M, F24K, F24K, F24K, F24K, PFO, PFO, PFO, PFO, WHY, WHY, FYU, FYU, PINE, PINE, NVAR, NVAR, NVAR, NVAR, N31M, N31M, N31M, N31M, YUH, YUH, L29M, L29M, L29M, L29M, T35M, T35M, T35M, T35M, E24K, E24K, NV11, NV11, EVN, EVN, S34M, S34M, PGC, PGC, Q32M, Q32M, Q32M, Q32M, GSC, GSC, DAWY, DAWY, DAWY, DAWY, D23K, D23K, D23K, D23K, TOLK, TOLK, TOLK, TOLK, I27K, I27K, M2P, M2P, F25K, F25K, F25K, F25K, P33M, P33M, P33M, P33M, G26K, G26K.

1180

Table with columns for station ID, name, coordinates, and various data points. Includes stations like G26K, B22K, B22K, BMAR, K29M, K29M, A21K, A21K, D24K, D24K, D24K, D24K, J29N, J29N, J29N, J29N, H27K, H27K, I28M, I28M, C23K, C23K, C23K, DLBC, E25K, E25K, N32M, N32M, R33M, R33M, R33M, M31M, M31M, F26K, F26K, F26K, I07A, I07A, WVOR, WVOR, TPNV, TPNV, TIXI, TIXI, TIXI, TIXI, G27K, G27K, G27K, MAYO, MAYO, C24K, C24K, C24K, I29M, I29M, I29M, F29M, F29M, J08A, J08A, D25K, D25K, J30M, J30M, J30M, E07A, E07A, S11A, S11A, SHPR, SHPR, H12A, H12A, H12A, H12A, H29M, H29M, LLLB, LLLB, I30M, I30M, I30M, E27K, E27K, F28M, F28M, F28M, F28M, BELA, BELA, C26K, C26K, G29M, G29M, G29M, W13A, W13A, C27K, C27K, MIMPY, MIMPY, EPYK, EPYK, EPYK, LPIG, LPIG, BMO, BMO, SLBS, SLBS, D27M, D27M, D27M, D27M, E28M, E28M, H31M, H31M, ELK, ELK, ELK, ELK, ELK, ELK, G30M, G30M, G30M, G30M, SPR3, SPR3, TGTN, TGTN, LIRD, LIRD.

HSIG	baz=244	89.83	60	IAMS_20	IAMS_20	00	02	28.3
E29M	Blow River	89.92	18	IAMS_20	IAMS_20	00	06	04.9
E29M	Blow River	89.92	18	P	P	23	27	56.9 -1.4
TOAD	Toad River Com	89.97	29	P	P	23	27	57.4 -1.4
PSUT	Pine Spring	90.00	51	IAMS_20	IAMS_20	00	03	32.0
F30M	Barrier River	90.12	19	IAMS_20	IAMS_20	00	02	35.2
F30M	Barrier River	90.12	19	P	P	23	27	57.6 -1.6
G31M	Satah River	90.23	20	IAMS_20	IAMS_20	00	02	30.2
G31M	Satah River	90.23	20	P	P	23	27	58.8 -0.8
D28M	Stokes Point	90.24	17	P	P	23	27	59.4 -0.3
PLID	Pearl Lake	90.35	44	P	P	23	28	00.6 -0.6
KNB	Kanab	90.37	52	IAMS_20	IAMS_20	00	03	56.1
SYO	Syowa Base	90.43	1971	eP	P	23	28	01.2 +0.4
WMO	Wumqi	90.43	1971	eP	P	23	28	02.3 +0.4
WMO	Wumqi	90.58	315	sP	sP	23	28	13.6 +2.3
WMO	Wumqi			sK	sK	23	28	32.3 -1.0
WMO	Wumqi			pmax	pmax	23	28	55.1 -2.2
WMO	comp=Z,27nm,2.1s							
WMO	comp=Z,700nm,5.7s							
WMO	comp=Z,730nm,18.3s							
WMO	comp=Z,750nm,18.3s							
NEW	Newport	90.59	41	LR	LR	00	00	38.3
BEAVL	Fort Liard	90.60	28	P	P	23	27	58.6 -3.1
F31M	Tsighetich	90.68	20	IAMS_20	IAMS_20	00	03	36.2
F31M	Tsighetich	90.68	20	P	P	23	27	59.9 -1.9
TUC	Tucson	90.79	57	P	P	23	28	02.7 -0.6
TUC	Tucson	90.79	57	P	P	23	28	02.7 -0.6
HLID	Hailey	91.00	46	P	P	23	28	03.3 -0.8
KOTAN	Kotanelee Air	91.04	28	P	P	23	28	01.4 -2.3
WUAZ	Wupatki	91.11	54	IAMS_20	IAMS_20	00	00	11.8
INK	Inuvik	91.22	19	IAMS_20	IAMS_20	00	04	11.2
INK	Inuvik	91.22	19	LR	LR	00	08	46.5
INK	Inuvik	91.22	19	P	P	23	28	02.1 -2.1
HYB	Hyderabad	91.59	287	eP	P	23	28	06.9 -0.4
HYB	Hyderabad			ePP	PP	23	31	45.1 -0.7
HYB	Hyderabad			eSSK	SSK	23	38	39.8 -0.2
HYB	Hyderabad			eSS	SS	23	45	14.8 +0.3
H9U	Hansel Valley	91.67	48	IAMS_20	IAMS_20	00	06	15.2
319A	Douglas	91.81	58	P	P	23	28	07.0 -1.0
319A	Douglas			Iamb	Iamb	23	28	24.8
319A	Douglas			IAMS_20	IAMS_20	00	04	32.4
TMUT	Trail Mountain	92.19	50	IAMS_20	IAMS_20	00	05	23.0
HMU	Henry Mountain	92.21	52	IAMS_20	IAMS_20	00	05	18.6
MSO	Missoula	92.23	43	IAMS_20	IAMS_20	00	09	42.6
HWUT	Hardware Ranch	92.50	48	IAMS_20	IAMS_20	00	06	13.2
DLMT	Dillon	92.74	44	IAMS_20	IAMS_20	00	06	59.1
AHID	Auburn Hatcher	93.12	47	IAMS_20	IAMS_20	00	05	51.6
FWXY	Fox Creek	93.39	46	IAMS_20	IAMS_20	00	07	44.5
TPAW	Teton Pass	93.41	46	IAMS_20	IAMS_20	00	07	24.9
BOZ	Bozeman (W)	93.45	44	P	P	23	28	15.4 +0.1
BOZ	Bozeman (W)			Iamb	Iamb	23	29	02.1
BOZ	Bozeman (W)	93.45	44	P	P	23	28	15.5 +0.1
BOZ	Bozeman (W)			pmax	pmax			
ZSN	Zaisan	93.48	318	eP	P	23	28	15.4 +0.1
ZSN	Zaisan			eS	S	23	38	49.5 +0.2
ZSN	Zaisan	93.48	318	eP	P	23	28	15.4 +0.1
ZSN	Zaisan			pmax	pmax			
ZSN	Zaisan	93.48	318	eP	P	23	28	15.4 +0.1
SNOW	Snow King Moun	93.54	46	IAMS_20	IAMS_20	00	06	52.5
YHB	Horse Butte	93.54	45	IAMS_20	IAMS_20	00	06	32.5
YHL	Hebgen Lake	93.58	45	IAMS_20	IAMS_20	00	07	02.4
LOHW	Long Hollow	93.68	46	IAMS_20	IAMS_20	00	05	44.3
MVCO	Mesa Verde	93.77	53	IAMS_20	IAMS_20	00	06	59.1
YHR	Norris Junction	93.89	45	IAMS_20	IAMS_20	00	12	53.8
PNR	Pinetop	93.91	63	IAMS_20	IAMS_20	00	06	27.4
PMSA	Palmer Station	94.06	161	LR	LR	00	05	14.8
EPT	El Paso	94.20	59	IAMS_20	IAMS_20	00	04	53.8
BW06	Boulder Array	94.23	47	IAMS_20	IAMS_20	00	06	15.8
PDAR	Pinedale Array	94.23	47	P	P	23	28	19.6 +0.4
PDAR	Pinedale Array			comp=Z,0.4nm,0.8s,ba=248,slow=3.7,SNR=2.3				
PDAR	Pinedale Array			LR	LR	00	06	56.1
Y42D	IRIS PASCALI	94.34	56	P	P	23	28	16.6 -3.1
C36M	Paulatuk	94.74	19	P	P	23	28	17.0 -3.5
TROLL	Troll, Antarti	94.86	185	eP	P	23	28	19.9 -1.6
ANMO	Albuquerque	94.90	55	IAMS_20	IAMS_20	00	06	41.2
ANMO	Albuquerque	94.90	55	IAMS_20	IAMS_20	00	06	41.2
ANMO	Albuquerque	94.90	55	LR	LR	00	07	01.6
RLMT	Red Lodge	94.96	45	IAMS_20	IAMS_20	00	08	13.1
MK31	Makanchi Array	95.03	317	P	P	23	28	22.3 -0.1
MK31	Makanchi Array	95.03	317	iP	P	23	28	22.3 -0.1
MKAR	Makanchi Array	95.03	317	P	P	23	28	22.3 -0.1
MKAR	Makanchi Array	95.03	317	P	P	23	28	22.5 +0.1
MKAR	Makanchi Array			comp=Z,7.8nm,0.8s,ba=89,slow=6.2,SNR=35				
MKAR	Makanchi Array			PKPKPbc	PKPKPbc	23	45	19.8 +0.6
MKAR	Makanchi Array			LR	LR	00	13	04.7
MKAR	Makanchi Array			comp=Z,7.67nm,19.4s,ba=82,slow=37				
ZAA0	Zalesovo Array	95.14	324	P	P	23	28	21.5 -1.2
ZALV	Zalesovo Beam	95.14	324	P	P	23	28	21.6 -1.1
ZALV	Zalesovo Beam	95.14	324	P	P	23	28	21.9 -0.8
ZALV	Zalesovo Beam			comp=Z,39nm,1.1s,ba=106,slow=4.8,SNR=40				
ZALV	Zalesovo Beam			LR	LR	00	10	53.7
ZALV	Zalesovo Beam			comp=Z,906nm,20.6s,ba=94,slow=35				
ZALV	Zalesovo Beam	95.14	324	iP	P	23	28	21.8 -0.9
A36M	Sachs Harbour	95.45	17	P	P	23	28	22.9 -0.8
SNAA	Sanae	95.58	183	eP	P	23	28	22.9 -1.8

SNAA	Sanae	95.58	183	P	P	23	28	22.7 -1.9	
SNAA	Sanae			comp=Z,21nm,1.2s	Iamb	Iamb	23	28	26.0
SNAA	Sanae			comp=Z,21nm,2.0s	IAMS_20	IAMS_20	00	09	28.9
SNAA	Sanae	95.58	183	P	P	23	28	22.8 -1.8	
SNAA	Sanae			comp=Z,13nm,1.1s,ba=173,slow=5.2,SNR=18	LR	LR	00	09	48.6
SNAA	Sanae			comp=Z,21nm,19.8s,ba=158,slow=34					
SNAA	Sanae	95.58	183	eP	P	23	28	23.2 -1.4	
SNAA	Sanae			comp=Z,23nm,1.3s	pmax	pmax			
ZAIG	Zacatecas	95.83	68	IAMS_20	IAMS_20	00	05	30.4	
TXAR	Lajitas Array	96.11	61	P	P	23	28	27.1 -0.8	
TXAR	Lajitas Array	96.11	61	P	P	23	28	26.2 -1.7	
TXAR	Lajitas Array			comp=Z,0.9nm,1.0s,ba=234,slow=4.2,SNR=5.3	LR	LR	00	06	58.4
TXAR	Lajitas Array			comp=Z,11nm,18.6s,ba=254,slow=32					
TXAR	Lajitas Array	96.11	61	P	P	23	28	27.1 -0.8	
YKA	Yellowknife Ar	96.13	27	P	P	23	28	25.3 -1.7	
YKA	Yellowknife Ar			comp=Z,0.5nm,0.8s,ba=267,slow=4.2,SNR=4.4	LR	LR	00	11	02.5
YKA	Yellowknife Ar			comp=Z,11nm,18.6s,ba=264,slow=35					
YKA	Yellowknife Ar	96.13	27	P	P	23	28	27.7 +0.7	
SDCO	Great Sand Dun	96.21	53	IAMS_20	IAMS_20	00	03	10.7	
VNA3	Neumayer Olymp	96.28	181	eP	P	23	28	25.8 -1.9	
K22A	Casper	96.39	48	IAMS_20	IAMS_20	00	11	38.0	
MOIG	Morella	96.50	71	IAMS_20	IAMS_20	00	05	48.2	
ISCO	Idaho Springs	96.52	51	IAMS_20	IAMS_20	00	07	46.7	
VNA2	Neumayer-Watz	96.54	182	eP	P	23	28	27.2 -1.7	
UZB	Uzynbulak	96.54	313	eP	P	23	28	29.4 -0.2	
UZB	Uzynbulak			comp=Z,1.8nm,1.8s	pmax	pmax			
UZB	Uzynbulak	96.54	313	eP	P	23	28	29.4 -0.2	
VNA1	Neumayer-Stat	96.84	182	eP	P	23	28	29.1 -1.1	
KPKS	Kokpek	96.85	313	eP	P	23	28	30.5 -0.3	
KPKS	Kokpek			comp=Z,1.8nm,1.8s	SKSac	S	23	39	07.3 -0.3
KPKS	Kokpek	96.85	313	eS	S	23	39	07.3 -0.3	
T25A	Trinidad	96.95	54	IAMS_20	IAMS_20	00	07	46.4	
SATY	Saty	96.97	312	eP	P	23	28	31.0 -0.5	
SATY	Saty			comp=Z,2.1nm,2.0s	SKSac	S	23	39	07.9 -0.5
SATY	Saty	96.97	312	eP	P	23	28	31.1 -0.5	
SATY	Saty			comp=Z,2.1nm,2.0s	S	S	23	39	07.9 -0.5
TDK	Taldyqorghan	97.33	314	eP	P	23	28	32.7 -0.2	
TDK	Taldyqorghan	97.33	314	eP	P	23	28	32.8 -0.2	
LAO	LASA Array	97.36	44	IAMS_20	IAMS_20	00	08	43.4	
MDOK	Medeo	97.97	312	eP	P	23	28	35.5 -0.5	
MDOK	Medeo			comp=Z,2.1nm,2.0s	SKSac	S	23	39	12.9 -0.6
MDOK	Medeo	97.97	312	eS	S	23	38	35.6 -0.5	
MDOK	Medeo			comp=Z,2.1nm,2.0s	S	S	23	39	13.0 -0.6
AAA	Alma-Ata	98.07	312	eP	P	23	28	36.1 -0.2	
AAA	Alma-Ata	98.07	312	eP	P	23	28	36.2 -0.2	
KSH	Kashi	98.15	309	P	P	23	32	39.1 +2.1	
KSH	Kashi			comp=Z,2.1nm,2.0s	PP	PP	23	32	43.1 +6.6
KSH	Kashi			comp=Z,2.1nm,2.0s	SKSac	S	23	39	14.0 -0.6
KSH	Kashi			comp=Z,2.1nm,2.0s	ScS	ScS	23	40	05.8 +1.5
KSH	Kashi			comp=Z,3.0nm,0.9s	pmax	pmax			
KSH	Kashi			comp=Z,290nm,7.6s	LR	LR			
KSH	Kashi			comp=Z,800nm,16.8s	LR	LR			
KSH	Kashi			comp=Z,760nm,19.6s	LR	LR			
KURK	Kurchatov	98.19	320	P	P	23	28	35.8 -0.8	
KURK	Kurchatov			comp=Z,40nm,2.0s	Iamb	Iamb	23	28	38.0
KURK	Kurchatov	98.19	320	P	P	23	28	35.8 -0.8	
KURK	Kurchatov			comp=Z,40nm,2.0s	pmax	pmax			
KURBB	Kurchatov Arra	98.23	320	P	P	23	28	35.3 -1.5	
KURBB	Kurchatov Arra			comp=Z,2.4nm,0.9s,ba=103,slow=3.5,SNR=14	PP	PP	23	32	35.7 -0.8
KURBB	Kurchatov Arra			comp=Z,7.6nm,1.3s,ba=98,slow=5.8,SNR=4.1	LR	LR	00	15	23.5
UNM	Universidad Na	98.30	72	IAMS_20	IAMS_20	00	09	31.0	
RSSD	Black Hills	98.44	47	IAMS_20	IAMS_20	00	14	33.1	
USHA	Ushuaia	98.57	151	LR	LR	00	05	52.8	
KSCO	Kaye Shedlock	98.66	52	IAMS_20	IAMS_20	00	12	36.4	
DGMT	Dagmar	99.01	42	IAMS_20	IAMS_20	00	13	57.0	
JCT	Junction City	99.62	61	IAMS_20	IAMS_20	00	05	10.4	
AAK	Ala-Archa	99.74	312	LR	LR	00	14		



Table with columns for station call letters, frequency, and various signal quality indicators (e.g., S/NR, SNR, SNR+1, etc.). Rows include stations like VRAC, BRG, BRG BRG, etc.

Table with columns for station call letters, frequency, and various signal quality indicators. Rows include stations like MOX, MOX, MOX, MOX, etc.

Table with columns for station call letters, frequency, and various signal quality indicators. Rows include stations like MOTA, RETA, RETA, SOTA, etc.

NAO 19 23:24:36.5, 36:55:23.22; E, h10km, mb3.8
BEO 19 23:24:50.6, 2.5, 37:85N-20:07E, h8km-2km, ML3.7/8
IOC 19 23:24:52.0, 9, 38:07N-20:05E, h0km, mb3.7/12
mbimp3.7/22, ML3.5/8, MS4.0/6, Error ellipse:
s-maj=16.4km s-min=13.8km az=9.0
ATH 19 23:24:54.1, 38:10N-20:59E, h21km, 1km, ML3.9/10,
Manual Solution By M. Papanikolaou First location:
2019/06/19 23:25:43, This location is 10/06/20:22:03
ML Amplitudes are expressed in micrometers, All
distances are expressed in degrees Latitude uncertainty: 1

km; Longitude uncertainty: 4 km
NEIC 19 23:24:54.9, 1.6, 38.07N, 01:06:20.60E, 0.07, h10km, 2km,
mb4.2/6, Error ellipse: s-maj=11.7km s-min=6.7km
az=215.0
THE 19 23:24:54.8, 38.13N, 1.2, 1E, h20km, 1km, M3.8/14,
MLh3.8/14
PDG 19 23:24:54.9, 1.0, 38.13N, 20:60E, h5km, 1km, ML4.0/10,
Error ellipse: s-maj=1.1km s-min=1.8km az=0.0
AFAD 19 23:24:55.0, 38.00N, 20:55E, h15km, 3km,
ISC 19 23:24:55.4, 0.7, 38.11N, 02:20:63E, 0.03, h19km, 2km,
n205, r130/237, mb3.8/15, MS4.7/4, 10C-2D, Greece

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, h, m, s, ISC, Res. Rows include stations like PSDA, VLS, RTZL, DMLN, etc.

Table with columns: BRY, Bratogost, SLES, Sjeloca, SUES, Sminio, SGRT, STON, UPMA, UPMA, UPMA, PLE, PLE, ZAPS, WDD, GOCS, Kraljevo, IVAS, PAOL, BOVS, BOVS, GRUD, RUUS, FBMS, BBLs, ZAGS, TRUS, ARG, INTR, TEKS, TEKS, AVAS, HERR, CAMP, Fruka, FRGS, A050A, BLY, SLATY, NORCIA, A051A, GZR, FDMO, CEXS, MURB, VOIR, MLR, MLR, MLR, MOA, MOA, LESA, LESA, WTTA, WTTA, WATA, WATA, WATA, FURN, FEICH, FETA, VRAC, VRAC, DAVOX, DAVOX, TUE, RETA, RETA, GERES, GERES, DAVA, DAVA, SENIUS, MMAI, AKASO, GHAJ, SUW, PABE, GNI, ESCD, MDT, HFS, EKA, BELG, FINES, FINES, FIAI, NC405, NC405, NB2, NOA, TORD, ABKAR, ARCES, BVAR, KK31, KKAR, KURBB

Table with columns: comp, MKAR, MKAR, ZAAO, ZAAO, ZALV, ZALV, WMQ, WMQ, WMQ, WMQ, SONM, PALK, HHC, HHC, SIV, CPUP

Table with columns: GII, GII, GOSH, GOSH, GEM, GEM, LVBS, LVBS, NATI, NATI

Table with columns: ATH, ATH, OUR, OUR, PAIG, PAIG, LIA, LIA, THAS, THAS, PLG, PLG, NEO, NEO, KAVA, KAVA, HORT, HORT, SRS, SRS

Table with columns: IDC, IDC, ASAR, ASAR, WRA, WRA, ILAR, ILAR

Table with columns: IDC, IDC, GCMT, GCMT

Table with columns: SANVU, SANVU, HNR, HNR, DZM, DZM, DZM, DZM, ONTC, ONTC, PINC, PINC, MSVF, MSVF, PMG, PMG, EIDS, EIDS, CTAO, CTAO, ARMA, ARMA, STKA, STKA, STKA, STKA, WBO, WBO, WRA, WRA, WRA, WRA, ASAR, ASAR, ASAR, ASAR, GUMO, GUMO, BBUO, BBUO, FITZ, FITZ, DAV, DAV



Table with columns: Station Name, Frequency, Mode, Class, Power, Azimuth, Elevation, and other parameters. Includes stations like MBWA Marble Bar, NWA0 Narrogin, INU Inuyama, etc.

Table with columns: Station Name, Frequency, Mode, Class, Power, Azimuth, Elevation, and other parameters. Includes stations like ROSC El Rosal, KBZ Khabaz, FINES FINESSE Array B, etc.

Table with columns: Station Name, Frequency, Mode, Class, Power, Azimuth, Elevation, and other parameters. Includes stations like TWGZ Kuaotunu, KUZ Kamaohu, CNZG Carnah Station, etc.

19C 19:23:47.14.0.1.1.33:24S:179:02W, h0km, mb4.0/4, m1mp4.0/5, ML4.2/1, Error ellipse: s-maj=34.8km, s-min=26.7km az=70.0

NEIC 19:23:47.18.0.0.6.33:45S:07:179:1W:0.2, h29km, 6km, mb4.3/6, Error ellipse: s-maj=19.0km s-min=10.5km

WEL 19:23:47:18.2.0.6.34:5:17:9W:1.3, h33km, M4.5/12, mb5.0/9, ML4.9/18, MLV4.7/12, Mw(mb)4.3/9, Error ellipse: s-maj=18.3km s-min=3.2km az=109.4, confirmed

ISC 19:23:47:19.8.0.7.33:44S:006:178:9W:0.1, h48km, n42, @140/57, mb4.2/7, South of Kermadec Islands

Table with columns: Code, Station Name, Frequency, Mode, Class, Power, Azimuth, Elevation, and other parameters. Includes stations like GLKZ Green Lake, RAO Raoul Island, etc.

NEIC 19:23:57:44.5:2.34:994N:0:010:116:46W:0:01, h5km, km, Error ellipse: s-maj=2.8km s-min=1.9km az=195.0

PAS 19:23:57:45:0.2.1.34:990N:0:009:116:46W:0:01, h2km, 2km, ML3.2/278, ML2.8/76(NEIC), Error ellipse: s-maj=1.5km s-min=1.4km az=90.0, Southern California

Table with columns: Code, Station Name, Frequency, Mode, Class, Power, Azimuth, Elevation, and other parameters. Includes stations like HEC Hector, DSCC Desert Studies, GSC Goldstone, etc.

Table with columns: S11A, comp, E, 66nm, 1.0s, IAML, 23 59 23.8, etc. Includes stations like MZP, ESJX, Y14A, 113A, KNB, LHV, U15A, NVAR, PSUT, WUAZ.

Table with columns: KDAK, KDAH, PAHR, GMM, NV11, O15K, 113A, P16K, Q18K, TPH, HSHG, TPNV, N14K, P17K, M11K, O16K, Q20K, M13K, J05D, P18K, N15K, O17K, USRK, W13A, M14K, M14K, O18K, O18K, M15K, N16K, P19K, N17K, L14K, HOM, O19K, O19K, M16K, P19K, N18K, O20K, TUC, TUC, BRSE, K13K, L15K, N19K, M17K, L16K, Q23K, M18K, K15K, K15K, L17K, L18K, M19K, NJ2, NJ2, RWJ, RWJ, PWL, M20K, K17K, GAMB, SUA, SUA, SUA, KAIM, HAWA, HAWA, GLI, GLI, GLI, J16K, EYAK, SKT, L20K, U33K, KNK, J17K, S31K, DIV, DIV, SML, I17K, MESA.

Table with columns: BMRM, J18K, WRAK, BNX, BNX, CUT, SCM, KLU, PPLA, CRQM, CRQM, ANM, CRQE, PNL, K20K, VRDI, VRDI, H16K, N25K, HLID, M24K, J19K, CAST, G15K, P29M, WAT6, MCARA, WAT1, CTG, O28M, PLBC, TNA, TNA, TNA, F14K, TRF, TRF, O29M, H17K, J20K, HARP, HARP, GCSA, G16K, DHY, RND, RND, VHRN, VHRN, SKAG, P30M, F15K, H18K, SMAI, SMAI, BPAW, G17K, YUK6, YUK6, MCK, PAX, S34M, I20K, YUK6, M26K, YUK3, HYT, TXAR, TXAR, M27K, YUK4, ANMO, ANMO, Q32M, H19K, L26K, G18K, O30N, H20K, K24K, NEA2, F17K, RIDG, MLY, N30M, WHY, L27K, BCAR, G19K, HDA, CCB, CCB.

IDC 19:23:59.45:7.6:2, 15:86Kx174:94W, h205km, 55km, mb4.0/17, mbtmp4.5/17, MS3.0/1, Error ellipse: s-maj=15.9km s-min=13.7km az=97.0, NEIC 19:23:59.51:9.2:1, 15:90Kx108:174:88W:0.07, h259km, 5km, mb4.6/78, Error ellipse: s-maj=12.4km s-min=10.0km az=198.0, BGR 19:23:59.58:9, 15:76S:174:84W, h309km, 4km, ISC 19:23:59.53:4.0:3, 15:91S:0:06:174:98W:0.06, h278km, n451, o95/44.1, mb4.5/60, 14C-20D, Tonga Islands

Table with columns: Code, Station Name, Az, AzP, Phase ID, Time, Res. Includes stations like FUTU, AFI, NIUE, MSVF, MSVF, MSVF, FUNA, P1NC, DZM, MXZ, URZ, WHZ, ARMA, ARMA, CTAO, CAN, CAN, WAKE, COEN, TOO, STKA, STKA, BBOO, BBOO, WR8, WRA, WRA, WRA, AS31, ASAR, MTN, FAKI, FORT, KNRA, SOEI, PSAD, MBWA, MBWA, SBA, VDA, VDA, NWAO, MORW, MORW, KIWB, MJAR, NIKH, UNV, JNU, JNU, KKM, SDPT, S12K, P08K, PETK, SPIA, KMRM, QSPA, QSPA, YUH, KSX, YBH, YBH, R18K, BEKR, BEKR, KSRS, KSRS, KSAR, Q17K, NVAR, NVAR.

Table with columns: W13A, M14K, M14K, O18K, O18K, M15K, N16K, P19K, N17K, L14K, HOM, O19K, O19K, M16K, P19K, N18K, O20K, TUC, TUC, BRSE, K13K, L15K, N19K, M17K, L16K, Q23K, M18K, K15K, K15K, L17K, L18K, M19K, NJ2, NJ2, RWJ, RWJ, PWL, M20K, K17K, GAMB, SUA, SUA, SUA, KAIM, HAWA, HAWA, GLI, GLI, GLI, J16K, EYAK, SKT, L20K, U33K, KNK, J17K, S31K, DIV, DIV, SML, I17K, MESA.

Table with columns: BMRM, J18K, WRAK, BNX, BNX, CUT, SCM, KLU, PPLA, CRQM, CRQM, ANM, CRQE, PNL, K20K, VRDI, VRDI, H16K, N25K, HLID, M24K, J19K, CAST, G15K, P29M, WAT6, MCARA, WAT1, CTG, O28M, PLBC, TNA, TNA, TNA, F14K, TRF, TRF, O29M, H17K, J20K, HARP, HARP, GCSA, G16K, DHY, RND, RND, VHRN, VHRN, SKAG, P30M, F15K, H18K, SMAI, SMAI, BPAW, G17K, YUK6, YUK6, MCK, PAX, S34M, I20K, YUK6, M26K, YUK3, HYT, TXAR, TXAR, M27K, YUK4, ANMO, ANMO, Q32M, H19K, L26K, G18K, O30N, H20K, K24K, NEA2, F17K, RIDG, MLY, N30M, WHY, L27K, BCAR, G19K, HDA, CCB, CCB.

H21K	Melozitna Rive	83.02	9	P	P	00 11 47.3	0.0
F18K	Selawik	83.05	6	P	P	00 11 47.6	+0.3
P33M	Teslin Yukon	83.10	20	P	P	00 11 48.0	+0.1
R33M	Jennings River	83.10	21	P	P	00 11 48.1	+0.1
I23K	Minto, Yukon-K	83.12	11	P	P	00 11 48.1	+0.3
SCRK	Sand Creek	83.14	13	P	P	00 11 48.3	+0.2
COLA	College	83.15	11	P	P	00 11 48.0	+0.1
N31M	Braeburn, Yuko	83.17	18	P	P	00 11 48.5	+0.3
IMAR	Indian Mountai	83.19	9	P	P	00 11 48.4	+0.3
M29M	Somme Creek	83.19	16	P	P	00 11 48.3	-0.1
IL31		83.24	12		Iamb	00 11 47.9	-0.5
ILAR	Eielson Array	83.24	12	P	P	00 11 47.7	-0.7
ILAR	Eielson Array	83.24	12	P	P	00 11 47.9	-0.6
E17K	Hoatham Inlet	83.32	5	P	P	00 11 49.4	+0.6
J25K	Salcha River,	83.40	12	P	Iamb	00 11 48.9	-0.4
J25K		83.40	12	P	Iamb	00 11 50.5	
J25K	Salcha River,	83.40	12	P	P	00 11 49.4	+0.1
P0K	Poker Plat Res	83.44	11	P	P	00 11 49.3	-0.2
H22K	Ishlathin Cre	83.46	10	P	P	00 11 49.9	+0.3
F19K	Shaleruckio M	83.48	7	P	P	00 11 49.7	+0.2
K27K	Chicken	83.62	14	P	P	00 11 50.7	+0.3
YHL	Hebgen Lake	83.64	40	P	Iamb	00 11 52.0	+0.8
YHL		83.64	40	P	Iamb	00 11 53.3	
PD31	Pinedale Array	83.66	42	P	Iamb	00 11 50.8	-0.5
PD31		83.66	42	P	Iamb	00 11 52.0	
PDAR	Pinedale Array	83.66	42	P	P	00 11 50.8	-0.5
PDAR	Pinedale Array	83.66	42	P	P	00 11 51.2	-0.1
J26L	Joseph Creek	83.69	13	P	P	00 11 51.5	+0.7
H23K	Yukon River	83.70	10	P	P	00 11 50.7	-0.1
BELA	Belrago 2	83.71	172	P	P	00 11 50.6	-0.2
G21K	Alakaket	83.72	8	P	P	00 11 51.5	+0.7
BOZ	Bozeman (W)	83.74	39	P	P	00 11 51.6	0.0
E18K	Tukpahtearik C	83.76	6	P	P	00 11 51.4	+0.4
D17K	Noatak River,	83.82	5	P	P	00 11 52.0	+0.8
L29M	L29M	83.83	16	P	P	00 11 52.2	+0.8
F20K	Avaraat Lake	83.93	7	P	P	00 11 52.4	+0.6
H24K	Noodor Dome	84.01	11	P	P	00 11 51.5	-0.8
E19K	Redstone River	84.14	7	P	P	00 11 53.2	+0.3
M31M	Drury Creek, Y	84.15	18	P	P	00 11 52.9	-0.2
PRP	Porcupine Dome	84.17	12	P	P	00 11 53.1	-0.2
PRP		84.17	12	P	Iamb	00 11 53.9	
PRP	Porcupine Dome	84.17	12	P	P	00 11 53.5	+0.2
C16K	Lisburne Hills	84.24	4	P	P	00 11 54.0	+0.7
DAWY	Dawson	84.29	15	P	P	00 11 53.3	-0.5
DAWY		84.29	15	P	Iamb	00 11 54.8	
DAWY	Dawson	84.29	15	P	P	00 11 54.3	+0.5
F21K	Alatna River	84.39	8	P	P	00 11 54.5	+0.3
G22K	Bettles	84.40	9	P	P	00 11 54.6	+0.5
G23K	Bananza Creek	84.44	10	P	P	00 11 54.9	+0.4
I26K	Coal Creek Min	84.47	13	P	P	00 11 55.1	+0.5
FARO	Faro, Yukon	84.48	18	P	P	00 11 54.1	-0.7
C17K	DeLong Mountai	84.58	4	P	P	00 11 55.4	+0.3
K29M	Barlow Dome	84.58	16	P	P	00 11 56.5	+1.2
BJT	Bajitau	84.72	314	P	Iamb	00 11 57.1	+0.7
EJTL		84.72	314	P	Iamb	00 11 58.7	
H25K	Birch Creek	84.78	11	P	P	00 11 56.0	-0.1
TOAD	Toad River Com	84.80	23	P	P	00 11 56.1	-0.4
BILL	Bilibino	84.82	353	P	Iamb	00 11 56.5	+0.2
BILL		84.82	353	P	Iamb	00 11 57.6	
COLD	Coldfoot	84.88	9	P	P	00 11 57.9	+1.3
C18K	Utukok River	84.91	5	P	P	00 11 57.1	+0.3
E20K	Nigu River	85.03	7	P	P	00 11 57.5	+0.1
D19K	Kuna River	85.05	6	P	P	00 11 57.8	+0.3
I27K	Kandik River	85.06	13	P	P	00 11 57.7	+0.1
LYN	LuoYang	85.16	308	P	pmax	00 12 00.3	+1.6
LYN		85.16	308	P	pmax		
G25K	Bearman Lake	85.17	11	P	P	00 11 57.8	-0.2
I28M	Miner Creek	85.31	14	P	P	00 11 58.6	-0.3
D20K	Etiuvik River	85.42	7	P	P	00 11 59.6	+0.3
E21K	Kilik River	85.47	8	P	P	00 11 60.0	+0.4
E22K	Anaktuvuk Pass	85.48	8	P	P	00 12 00.5	+0.9
J30M	Hart River	85.48	16	P	P	00 12 00.3	+0.5
C19K	Lookout Ridge	85.49	5	P	P	00 12 00.5	+0.9
F24K	Squaw Lake	85.52	10	P	P	00 12 00.5	+0.7
B18K	Kokolik River	85.56	5	P	P	00 12 00.4	+0.5
H27K	Steamboat Moun	85.55	13	P	P	00 12 01.2	+0.9
E23K	Chandalar	85.73	9	P	P	00 12 02.0	+1.1
G26K	Porcupine Riv	85.77	12	P	P	00 12 02.2	+1.2
E24K	Four Creek	85.93	10	P	P	00 12 02.3	+0.5
F25K	Christian Rive	85.98	11	P	P	00 12 02.8	+0.7
I30M	Mount Dempster	85.99	15	P	P	00 12 02.5	+0.2
C21K	Knifblade Rid	86.05	7	P	P	00 12 02.7	+0.4
D22K	Aiykyak River	86.05	8	P	P	00 12 03.1	+0.7
G27K	Doyon Strip	86.08	13	P	P	00 12 03.3	+0.7
TOLK	Toolik Lake Re	86.27	9	P	P	00 12 04.1	+0.6
H29M	Whitestone	86.32	14	P	P	00 12 03.9	+0.2
F26K	Sheenik River	86.35	11	P	P	00 12 04.1	+0.3
D23K	Nanuukuk River	86.41	9	P	P	00 12 04.3	+0.3
A19K	Wainwright	86.44	5	P	P	00 12 04.4	+0.3

E25K	Arctic Village	86.46	11	P	P	00 12 04.3	-0.1
B21K	Ikpiqok River	86.51	7	P	P	00 12 04.5	0.0
B20K	Mieser Grever	86.60	6	P	P	00 12 04.9	0.0
MAW	Mawson	86.83	199	P	P	00 12 06.5	+0.3
EPYK	Eagle Plains	86.83	14	P	P	00 12 05.7	-0.5
D24K	Happy Valley	86.86	9	P	P	00 12 06.5	+0.4
G29M	Pin Creek	86.96	14	P	P	00 12 06.5	-0.3
F28M	Old Crows	87.14	13	P	P	00 12 07.8	+0.2
C23K	Halikil River	87.22	8	P	P	00 12 08.0	+0.1
E27K	Coleen River	87.27	12	P	P	00 12 08.3	+0.1
B22K	Teshkebuk Lake	87.33	7	P	P	00 12 08.6	+0.2
C24K	Franklin Bluff	87.39	9	P	P	00 12 08.4	-0.3
D25K	Kavik River	87.39	10	P	P	00 12 08.4	-0.4
G30M	Ahoi Zraii Nji	87.44	14	P	P	00 12 08.9	-0.2
XAN	Xi'an	87.70	306	P	pmax	00 12 12.3	+1.2
XAN		87.70	306	P	pmax		
G31M	Satah River	87.87	15	P	P	00 12 11.0	0.0
E28M	Babbage River	88.03	12	P	P	00 12 12.5	+0.7
F30M	Barrie River	88.05	14	P	P	00 12 12.3	+0.4
E29M	Blow River	88.20	13	P	P	00 12 11.5	-1.0
HHC	Hu-ho-hao-te	88.26	313	P	pmax	00 12 16.3	+2.7
HHC		88.26	313	P	pmax		
KMI	Kunming	89.88	296	P	P	00 12 23.3	+1.6
KMI		89.88	296	P	pmax		
PZH	PanZhihua	91.15	297	P	P	00 12 28.6	+1.2
YKA	Yellowknife Ar	91.17	24	P	P	00 12 26.5	0.0
CMAR	Chiang Mai Arr	91.33	289	P	P	00 12 29.8	+1.5
A36M	Sachs Harbour	93.75	14	P	P	00 12 37.8	-0.4
SONM	Songio Array	94.21	319	P	P	00 12 40.2	-0.9
MKAR	Makanchi Array	110.10	314	P	PKiKp	00 17 50.9	-1.2
KURBB	Kurchatov Arra	112.58	319	P	PKiKp	00 17 55.0	-1.5
BVAR	Borovoye Array	117.34	322	P	PKiKp	00 18 05.0	-0.6
ARCES	ARCCESS Array B	124.89	351	P	PKiKp	00 18 18.0	-1.7
FINES	FINESSE Array B	132.09	347	P	PKiKp	00 18 34.2	+0.6
NOA	NORSAR Array B	134.71	356	P	PKiKp	00 18 38.5	-0.1
BSEJ	Bad Segeberg	141.83	355	P	PKiKp	00 18 47.8	-3.9
OJC	Ojcow	143.75	344	P	PKiKp	00 18 53.3	+0.4
CLZ	Clausthal	143.90	354	P	PKiKp	00 18 54.5	+0.4
KSP	Ksiaz	143.99	348	P	PKiKp	00 18 54.3	-0.1
CLL	Collim	144.11	351	P	PKiKp	00 18 54.6	0.0
CLL		144.11	351	P	PKiKp	00 18 54.0	-0.3
CLL		144.11	351	P	PKiKp	00 19 00.0	
GTGT	Gottingen	144.23	355	P	PKiKp	00 18 55.2	+0.2
BUR08	Bucovina Ar. S	144.23	336	P	PKiKp	00 18 55.5	+0.1
BURAR	Bucovina Array	144.23	336	P	PKiKp	00 18 55.2	+0.1
BURAR		144.23	336	P	PKiKp	00 18 54.5	+0.4
OSTC	Ostas	144.28	348	P	PKiKp	00 18 56.0	-0.2
NIE	Niedzica	144.33	343	P	PKiKp	00 18 56.0	-0.4
UPC	Upice	144.36	348	P	PKiKp	00 18 56.2	-0.2
BRG	Bergliesshubel	144.39	350	P	PKiKp	00 18 55.3	-0.1
BRG	Bergliesshubel	144.39	350	P	PKiKp	00 18 55.6	0.0
BRG		144.39	350	P	PKiKp	00 18 56.6	
BUC	Bucruska-Polom	144.45	358	P	PKiKp	00 18 56.3	-0.3
DPG	Dobrucka-Univer	144.51	358	P	PKiKp	00 18 55.5	-0.2
STEB	Steborice	144.52	346	P	PKiKp	00 18 56.2	+0.2
GAZ	Gaziantep	144.52	313	P	PKiKp	00 18 56.4	-0.1
KRLC	Krailky	144.61	347	P	PKiKp	00 18 56.2	-0.1
PVCC	Panska Ves	144.62	349	P	PKiKp	00 18 57.5	+0.5
BNN	Bunyan	144.62	316	P	PKiKp	00 18 57.0	0.0
KASTN	Kahler Asten	144.69	356	P	PKiKp	00 18 56.6	+0.1
MORC	Moravsky Berou	144.72	346	P	PKiKp	00 18 56.4	-0.3
MORC		144.72	346	P	PKiKp	00 18 56.5	-0.2
MORC	Moravsky Berou	144.72					









1191

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like TPB05 Hovey Rd, TPB16 Coyonosa, PCOS Crockett Middl, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like RPZ Rata Peaks, WHZ Wether Hill Ro, THZ Tophouse, etc.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like LESA comp=Z,4.2nm,1.0s, MYKA Terra Mystica, N31M Braeburn, etc.

2019 JUN

20d 1h

20d 1h

2019 JUN

1192

Table with columns: Station Name, Time, Status, and other details. Includes stations like WAT6, DHY, BRSE, KDAK, PMR, etc.

Table with columns: Station Name, Time, Status, and other details. Includes stations like N17K, O16K, TLOC, etc.

Table with columns: Station Name, Time, Status, and other details. Includes stations like M13K, A21K, G17K, etc.



s108,c140: Duration: 0 Moment tensor: Scale 10^16Nm; Mv=3.42; Mw=0.90; Lb; Mw=4.32; Lb; Mw=0.86; 0.8; Mw=1.22; 1.7; Mw=1.80; 1.1; Best double couple; Mw=4.548000x10^16 NP1=0.35,00000; 0.39,00000; 0.125,00000; NP2=0.173,00000; 0.59,00000; 0.65,00000; Principal axes: T 4.1980, Plg66.00000, Azm36.00000; N 0.7030, Plg21.00000, Azm186.00000; P -4.8970, Plg11.00000, Azm280.00000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s.

Triangular moment-ratio function  
IDC 20 02:04:41.9, 1.1, 5.91N, 127.08E, h74km, 8km, mb4.6/28, mbmps0.031, MS3, 737 Error ellipse: s-maj=14.1km s-min=7.8km az=62.0

NEIC 20 02:04:42.8, 1.8, 5.71N, 0.06x126.85E, 0.06, h71km, 12km, mb5.0/12, Error ellipse: s-maj=9.3km s-min=7.6km az=223.0

DJA 20 02:04:43.0, 0.5, 6.1N, 4.12E, h78km, 5km, M5.0/21, mb5.1/21, mb5.3/12, MLV5.5/13, Mw(mb)4.7/12, MwMwp4.7/2, Mwp5.5/2

ISC 20 02:04:42.6, 0.4, 5.75N, 0.03x126.88E, 0.04, h79km, 3km, h79km; p-P, n783, 0.127/810, mb5.2/177, 38C-27D,

Table with columns: Code, Station Name, Az, AzP, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Lists various seismic stations and their associated data points.

Table with columns: KNRA, Kununurra, 21.37 175, Iamb, P, 02 09 25.0 +1.1, 02 09 45.2. Lists seismic events with station names, magnitudes, and times.

Table with columns: XAN, Xian, 32.70 332, p, P, 02 11 06.8 -0.9, 02 11 06.9 -3.2. Lists seismic events with station names, magnitudes, and times.

1195

Table with columns: Station, Name, Frequency, Modulation, Power, and other technical details. Includes stations like KLR, HIA, ARPS, ULN, CAN, etc.

2019 JUN

Table with columns: Station, Name, Frequency, Modulation, Power, and other technical details. Includes stations like ZALV, AAK, AML, EKSZ, etc.

20d 2h

Table with columns: Station, Name, Frequency, Modulation, Power, and other technical details. Includes stations like D17K, L16K, N16K, M16K, etc.

20d 2h

2019 JUN

1196

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Type, and other parameters. Includes stations like F21K Alatna River, A22K Sinclair Lake, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Type, and other parameters. Includes stations like VSLR comp=2.67nm,0.8s, PRP Porcupine Dome, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Type, and other parameters. Includes stations like SIM Simferopol', MSF Maaseika, etc.









Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like POTN Potosi Oosigui, CNCH Conchagua, LOMA Loma Larga, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like STKA Stephens Creek, ASAR Alice Springs, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LOMA Loma Larga, CCG Comitan, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like IDC 20 04:47:23.3, NEIC 20 04:47:24.3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like GCG 20 04:48:45.0, CATAC 20 04:48:46.2, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MOS 20 05:24:06.5, NEIC 20 05:24:08.2, etc.





20d 5h

Table of station data for 20d 5h, including call signs like BO02, PSI, ADK, etc., and their associated frequencies and parameters.

2019 JUN

Table of station data for 2019 JUN, including call signs like KURSB, AAK, KBL, etc., and their associated frequencies and parameters.

1202

Table of station data for 1202, including call signs like RETH, VYHS, ADK, etc., and their associated frequencies and parameters.

SDD 20 05:26:04.1z.2.1, 18°11'N-69°27'W, h124km, 16km, MD3.5, ML3.2, MVW3.4

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time Res, ISC, Res. Includes stations like HATOM, MDR, SMDR, etc.

SSNC 20 05:26:37.5z.1.5, 19°89'N-71°94'W, h5km, MD3.3, ML2.5

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time Res, ISC, Res. Includes stations like SDD, SDD1, SDD2, etc.

WEL 20 05:30:13.4z.1.3, 34°S-30°W, 17°9'W, h33km, M4.4/18, mB5.0/10, ML5.0/15, MLV4.4/18, Mw(mB)4.4/10, Error

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time Res, ISC, Res. Includes stations like WKGZ, WPKZ, etc.



Table with columns: Station Name, Time, Res, Pn, S, Sn, ISC. Includes stations like WHZH Waihua, NMHZ Naumai, ARHZ Aropoanui, KWHZ Kaweka Forest.

IDC 20 05:30:50.7-0.9, 33°00'S-178°82'W, h0km, mb4.2/4, mbmp4.2/4, Error ellipse: s-maj=35.9km s-min=28.1km az=69.0

NEIC 20 05:30:51.5-0.5, 33°79'S-0°08'178.6'W, h10km, mb4.4/12, Error ellipse: s-maj=30.4km s-min=9.6km az=72.0

WEL 20 05:30:55.9-1.4, 34°S-10°17'9W, h33km, M4.5/12, mB5.0/9, ML4.9/13, MLV4.7/12, Mw(MB)4.3/9, Error ellipse: s-maj=20.7km s-min=11.2km az=108.9, confirmed

ISC 20 05:34:54.0-0.6, 33°70'S-0°07'178.6'W, h1, h35km, n45, c#978/49, mb4.4/9, South of Kermadec Islands

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Lists stations like RAO Raoul Island, PKGZ Pakihoro, PUZ Puketiti, etc.

URZ 11m, 0.3s, baz=33, slow=7.3, SNR=12

RAO Raoul Island 4.46 7 P Pn 05 32 00.5 +0.8

PKGZ Pakihoro 4.98 212 P Pn 05 32 07.8 +0.0

PUZ Puketiti 5.06 210 P Pn 05 32 09.3 +1.1

RUGZ Raukumara Rang 5.25 215 P Pn 05 32 11.9 +0.7

CNGZ Carnagh Statio 5.45 208 P Pn 05 32 14.1 +0.9

TKGZ Te Karaka 5.56 211 P Pn 05 32 14.8 +0.1

MWZ Matawai 5.61 213 P Pn 05 32 16.4 +0.8

URZ Urewera 5.75 216 Pn Pn 05 32 17.2 -0.2

URZ 11m, 0.3s, baz=162, slow=18, SNR=3.8

RAGZ Rawiri 5.80 213 P Pn 05 32 18.7 +0.6

RIGZ Rimuhau 5.82 210 P Pn 05 32 17.8 -0.5

PRGZ Paritu Road 5.96 208 P Pn 05 32 20.0 +0.2

PRGZ Shannon Statio 6.07 212 P Pn 05 32 21.2 -0.5

MUGZ Murupara 6.09 217 P Pn 05 32 22.3 +0.3

MUGZ Waipu Caves 6.26 247 P Pn 05 32 24.8 +0.3

RAHZ Aarahi 6.29 213 P S Sn 05 32 21.9 +1.4

PRRZ Plateau Road 6.30 219 P Pn 05 32 25.3 +0.3

MTHZ Maungataniwha 6.35 215 P Pn 05 32 25.9 +0.3

MTHZ Waihua 6.36 211 P S Sn 05 33 37.3 +0.3

WHZH Omahuta 6.68 255 P S Sn 05 32 25.1 -0.5

MSVF Nonsauv 16.18 348 Pn Pn 05 34 38.9 -0.5

CTAO Charters Tower 30.41 284 P P 05 37 36.7 +1.4

CTAO comp=Z, 6.8nm, 1.0s

BBOO Buckleboon 37.73 258 P P 05 38 06.2 -0.8

COEN Coen 39.84 290 P P 05 38 22.9 -2.0

AS31 Alice Springs 42.27 271 P P 05 38 46.2 -1.0

AS31 comp=Z, 1.6nm, 0.7s

ASAR Alice Springs 42.57 271 P P 05 38 46.2 -1.1

ASAR Alice Springs 42.57 271 P P 05 38 46.5 -0.8

ASAR comp=Z, 4.5nm, 0.7s, baz=114, slow=7.3, SNR=19

WR0 Warramunga Arr 43.68 276 P P 05 38 55.4 -0.9

WR0 comp=Z, 9.1nm, 1.1s

WR8 Warramunga Arr 43.72 276 P P 05 38 55.9 -0.6

WR8 comp=Z, 8.2nm, 1.1s

WB2 Warramunga Arr 43.85 276 P P 05 38 57.0 -0.6

WB2 comp=Z, 6.6nm, 0.6s

WRA Warramunga Arr 43.86 276 P P 05 38 56.9 -0.8

WRA comp=Z, 6.1nm, 0.7s, baz=117, slow=7.5, SNR=19

WBO Warramunga Arr 43.90 276 P P 05 38 57.3 -0.6

WBO comp=Z, 0.3nm, 0.3s, baz=28, slow=3.5, SNR=6.2

VNDA Vanda 44.78 186 P P 05 39 10.6 +6.4

QSPA South Pole Qui 56.42 180 P P 05 40 39.1 +6.7

QSPA comp=Z, 6.0nm, 1.0s

FITZ Fitzroy Crossi 51.97 273 P P 05 39 59.2 -1.2

FITZ South Pole Qui 56.42 180 P P 05 40 32.7 +0.3

QSPA comp=Z, 6.0nm, 1.0s

QSPA South Pole Qui 56.42 180 P P 05 40 39.1 +6.7

QSPA comp=Z, 1.5nm, 0.7s

KURB Kurchatov Arr 122.98 312 PKP PKPdf 05 49 46.1 -0.5

KURB comp=Z, 0.8nm, 0.6s, baz=112, slow=2.1, SNR=6.0

ARCES ARCES Array B 141.69 347 PKP PKPdf 05 50 22.6 +1.4

ARCES comp=Z, 2.0nm, 0.8s, baz=47, slow=5.3, SNR=3.8

FINES FINESS Array B 148.04 338 PKPb PKPbc 05 50 35.4 -0.2

FINES comp=Z, 4.8nm, 0.6s, baz=77, slow=4.1, SNR=18

MMAI Mount Meron Ar 151.70 278 PKPb PKPbc 05 50 45.6 +0.1

MMAI comp=Z, 3.0nm, 0.5s, baz=55, slow=7.2, SNR=5.2

NB2 NORSAR Subarrat151.92 350 PKP PKPbc 05 50 45.4 -0.0

NB2 comp=Z, 0.8nm, 0.8s, baz=127, slow=2.2

NOA NORSAR Array B 151.92 350 PKPb PKPbc 05 50 45.4 -0.0

NOA comp=Z, 0.8nm, 0.5s, baz=14, slow=4.1, SNR=7.4

HFS Hagfors 152.35 347 PKPb PKPbc 05 50 45.9 -0.7

HFS comp=Z, 1.7nm, 0.6s, baz=30, slow=10, SNR=4.8

AKASG Malin Array B 153.54 318 PKPb PKPbc 05 50 49.5 +0.5

AKASG comp=Z, 0.8nm, 0.6s, baz=74, slow=2.1, SNR=4.1

BRTR Keskin Array B 153.59 293 PKPb PKPbc 05 50 49.5 -0.1

BRTR comp=Z, 1.7nm, 0.8s, baz=113, slow=2.5, SNR=7.5

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.4km az=102.0, South of Kermadec Islands

IDC 20 05:49:29.1-1.7, 33°48'S-178°82'W, h0km, mb4.0/2, mbmp4.1/3, ML4.1/1, Error ellipse: s-maj=49.9km s-min=32.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TPIG, NUBE, FTIG, MGIG, PETF, TLIG, JAVU, ESJU, ESQJ, MTO3, CRIG, JAYA, PMOJ, LOMA, DAIG, PBCV, PBXN, PPM, MEIG, YAIG, CXUV, PLIG, MAVM, ARIG.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AC02, USHA, NNA, LPAZ, LPAZ, LPAZ, LPAZ, PMSA, CPUP, CPUP, CPUP, PLTB, SJPY, ATAH, BBSO, AQB, SIV, CZSB, CZSB, AQDE, PTGB, TRCB, PTLB, RRPD, COHC, VILB, VILB, PRTB, SALV, C2SB, TBGT, TBGT, ITRB, SPB, OTAV, BB19B, VAO, PDRB, ARAG, CLDB, FLOC, TEFE, IPMB, SABC, PMNB, VAS01, BDFB, BDFB, BDFB, SNDB, NPGB, BELA, DIAM, ROSC, ROSC, ITTB, RUSC, SAIMB, SDBA, JTS, SMTB, PRPB, BOAV, BOAV, TBI, TBI, VNA3, SDV, QSPA, QSPA, VNA1, VNA2, TAOE, SNA3, SNA4, SNA5, SNA6, SNA7, SNA8, SNA9, SNA0, PPT2, PPT2, PPT2, PPT2, SBA, SBA, TROLL, PCRV, CMIG, VNA4, VNA5, VNA6, VNA7, VNA8, VNA9, VNA0, CO02, ZON4, AC04, CFA.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TXAR, TX31, ALPN, MAW, TUC, MSTX, PAUL, TKL, U38A, Y14A, PV18, PRN, GRN, BSUT, BSUT, PDAR, PDAR, RSDS, SADO, BBTS, ULM, BOSA, DBIC, LBTB, GERB, NACGM, BRTR, KBZ, USRK, KSRS, HEH, HEH, BNX, NJ2, NJ2, LZH, LZH.

IDC 20:07:00:3.5,4.3,2.4,51.71N,-86.75E,h0km,mbmp2.7/2, ML2.5/2, Error ellipse: s-maj=27.2km s-min=15.7km az=55.0, Southwestern Siberia

IDC 20:07:04:0.2,0.6,38.84S,-91.39W,h0km,mb4.3/13, mbmp4.3/14, ML3.4/1, MS4.3/24, Error ellipse: s-maj=20.6km s-min=16.1km az=99.0

IDC 20:07:06:1.6,2.0,7.2,20S,-138.53E,h0km,mb4.0/9, mbmp4.0/11, ML3.8/2, MS3.5/9, Error ellipse: s-maj=20.6km s-min=16.1km az=99.0

IDC 20:07:04:0.2,0.6,38.84S,-91.39W,h0km,mb4.3/13, mbmp4.3/14, ML3.4/1, MS4.3/24, Error ellipse: s-maj=20.6km s-min=16.1km az=99.0

IDC 20:07:04:0.2,0.6,38.84S,-91.39W,h0km,mb4.3/13, mbmp4.3/14, ML3.4/1, MS4.3/24, Error ellipse: s-maj=20.6km s-min=16.1km az=99.0

IDC 20:07:06:1.6,2.0,7.2,20S,-138.53E,h0km,mb4.0/9, mbmp4.0/11, ML3.8/2, MS3.5/9, Error ellipse: s-maj=20.6km s-min=16.1km az=99.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like H03S2, H03S1, H03S3, VA04, H03N3, H03N2, H03N1, LL06, G007, B105, LR03, LL01, LR05, LR02, COYC, COYC, AY03, B102, B102, PLCA, PLCA, PLCA, ML02, ML02, VA05, VA05, BO01, MT01, MT09, MT02, BO04, BO04, VA06, VA06, MT05, MT05, MT03, PEL, PEL, MT16, MT16, LMEL, LMEL, G009, G009, CO02, ZON4, AC04, CFA.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like H03S2, H03S1, H03S3, VA04, H03N3, H03N2, H03N1, LL06, G007, B105, LR03, LL01, LR05, LR02, COYC, COYC, AY03, B102, B102, PLCA, PLCA, PLCA, ML02, ML02, VA05, VA05, BO01, MT01, MT09, MT02, BO04, BO04, VA06, VA06, MT05, MT05, MT03, PEL, PEL, MT16, MT16, LMEL, LMEL, G009, G009, CO02, ZON4, AC04, CFA.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SMPI, GEMJ, SRPI, SRPI, JAY, JAY, JAY, JAY, JAY, BAKI, BAKI, FAKI, FAKI, PMG, GUMO, WRA, WRA, BNX, FITZ, ASAR, ASAR, STKA, STKA, JNU, NWA0, MJAR, CMAR, USRK, KLR, RAR, MKAR, VNA4, VNA5, VNA6, VNA7, VNA8, VNA9, VNA0, ILAR, QSPA, TR1.







20 Jun 7h

Table with columns: Station, Frequency, Power, Direction, and other technical details. Includes stations like Urewera, Lichensteins R, Kaharoa, etc.

2019 JUN

Table with columns: Station, Frequency, Power, Direction, and other technical details. Includes stations like Tophouse, Kahutara, Honiara, etc.

1208

Table with columns: Station, Frequency, Power, Direction, and other technical details. Includes stations like Warramunga Arr, Tennant Creek, Warramunga Arr, etc.





20d 7h

Table with columns: PWL, Port Wells, Kayak Island, M20K, V35K, SUA, L19K, GRNR, U33K, SIT, K17K, EYAK, GLI, GAMB, SKT, MPU, BGLC, J16K, M22K, NJ2, NJ2, KNK, PMR, PMR, PMR, PMR, L20K, S31K, WRAK, S32K, J17K, T33K, DIV, Y22D, MESA, SML, CRNM, M23K, I17K, CUT, CROE, KLU, PNL, J18K, SCM, TXAR, TXAR, PV05, PPLA, PINM, K20K, ANN, R32K, MA2, MA2, MA2, DLV, KLR, KLR, N25K, P29M, ANMO, ANMO, M24K, MCARA, H16K, CTG, WASTE, CAST, BNX, BNX, BNX, BNX, BNX, DL2, DL2, DL2, DL2

2019 JUN

Table with columns: DL2, DL2, WAT1, PLBC, O28M, CN2, CN2, NEW, NEW, O29M, T35M, G15K, SNY, SNY, SNY, SNY, TRF, TRF, HARP, SKAG, SKAG, CHUM, J20K, P30M, H17K, DHY, DHY, F14K, TNA, S34M, GCSA, YUK8, G16K, YUK6, PAX, BPAW, MCK, H18K, M26K, F15K, HYT, YUK3, G17K, I20K, QIZ, QIZ, QIZ, QIZ, Q32M, P32M, YUKA, DLMT, DLMT, MNH, MSO, MSO, M27K, MENT, MENT, O30N, O30N, L26K, DLBC, DLBC, BVCY, H19K, H03S2, H03S1, H03S3, K24K, WHY, ODSA, ODSA, N30M, PD31, PD31, PDAR, PDAR, PDAR, G18K, H03N2

1210

Table with columns: H20K, H03N3, H03N1, NEA2, NEA2, WHN, WHN, WHN, RIDG, L27K, BCAR, OVMT, MLY, R33M, P33M, CNSH, CNSH, CNSH, CNSH, HDA, HDA, HDA, SDCO, SDCO, F17K, N31M, G19K, G19K, TIA, TIA, M29M, H21K, H21K, SCRK, I23K, COLA, COLA, COLA, LYMT, SEY, SEY, SEY, F18K, ILAR, ILAR, YMP, CMIG, J25K, J25K, POKR, YNE, YNE, E17K, N32M, N32M, H22K, K27K, F19K, J26L, J26L, HEH, HEH, HEH, HEH, HEH, HEH, L29M, H23K, H23K, ISCO, ISCO, G21K, G21K, GULI, GULI, GULI, GULI, E18K, E18K, M31M, MAW, MAW, RLMT, D17K, H24K, F20K, GCT, GCT, WTLY



KPKS	Kokpek	114.75 310	ePKIKP	PKPdf	07 51 32.3 -0.6
KPKS	Kokpek	114.75 310	ePKP	PKPdf	07 51 32.4 -0.6
KURK	Kurchatov	114.75 318	PKIKP	PKPdf	07 51 32.4 -0.2
KURRB	Kurchatov Arra	114.81 318	PKP	PKPdf	07 51 32.4 -0.3
comp-Z, 3.7nm, 0.8s, baz=97, slow=1.9, SNR=22					
KURBS	Kurbas	114.81 310	ePKIKP	PKPdf	08 02 11.4 +0.1
comp-Z, 1.1nm, 0.8s, baz=26, slow=4.2, SNR=8.3					
SATY	Saty	114.94 310	ePKIKP	PKPdf	07 51 32.8 -0.6
SATY	Saty	114.94 310	e	PKPdf	07 52 30.9
SATY	Saty	114.94 310	ePPP	PKPdf	07 51 32.9 -2.1
TDK	Taldyqorghan	114.97 312	ePKIKP	PKPdf	07 51 32.8 -0.4
TDK	Taldyqorghan	114.97 312	ePKP	PKPdf	07 51 32.8 -0.4
MDOK	Medeo	115.94 310	ePKIKP	PKPdf	07 51 34.6 -0.7
MDOK	Medeo	115.94 310	ePKP	PKPdf	07 51 34.7 -0.7
AAA	Alma-Ata	116.03 310	ePKIKP	PKPdf	07 51 34.9 -0.6
AAA	Alma-Ata	116.03 310	ePKP	PKPdf	07 51 34.9 -0.6
KSH	Kashi	116.69 306	PKP	PKIKP	07 51 38.3 +1.4
KSH	Kashi		SLR		07 51 51.8
KSH	Kashi		LR	LR	
comp-Z, 100nm, 13.1s					
KSH	Kashi		LR	LR	
comp-Z, 170nm, 21.0s					
KSH	Kashi		LR	LR	
comp-Z, 270nm, 22.0s					
BDFB	Brasilila	116.96 118	PKP	PKPdf	07 51 37.3 -0.7
comp-Z, 2.8nm, 0.9s, baz=95, slow=5.9, SNR=3.5					
BDFB	Brasilila	116.96 118	ePKIKP	PKPdf	08 02 03.5 +0.3
comp-Z, 3.4nm, 0.9s, baz=78, slow=2.1, SNR=7.0					
BTL	Baital	118.06 312	ePKP	PKPdf	07 51 38.6 -0.5
BTL	Baital	118.06 312	ePKP	PKPdf	07 51 38.7 -0.5
BTL	Baital	118.06 312	ePP	PKPdf	07 52 52.7 -1.9
BZS	Berezinski	118.60 318	ePKIKP	PKPdf	07 51 39.7 -0.3
BZS	Berezinski	118.60 318	ePKP	PKPdf	07 51 39.7 -0.3
SPVTS	Spitsbergen Ar	119.34 358	PKIKP	PKIKP	07 51 41.0 +0.2
comp-Z, 6.3nm, 0.7s, baz=137, slow=8.6, SNR=9.2					
BVAR	Borovyoye Array	119.59 321	PKP	PKPdf	07 51 41.9 0.0
comp-Z, 9.0nm, 0.6s, baz=93, slow=3.0, SNR=38					
BVAR	Borovyoye	119.59 321	ePKIKP	PKPdf	08 01 55.6 +1.1
comp-Z, 2.0nm, 0.7s, baz=272, slow=5.8, SNR=2.2					
BRVK	Borovyoye	119.64 321	ePKIKP	PKPdf	07 51 41.9 0.0
DZA	Taraz	120.14 310	ePKIKP	PKPdf	07 51 42.7 -0.5
DZA	Taraz	120.14 310	ePKP	PKPdf	07 51 42.8 -0.5
SMTB	Santa Maria do	120.50 112	ePKP	PKPdf	07 51 44.7 -0.7
LUC	luzhnyy	121.14 309	PKIKP	PKIKP	07 51 44.6 -0.7
LUC	luzhnyy	121.14 309	ePKP	PKPdf	07 51 44.6 -0.7
BRLS	Borolday	121.22 310	ePKIKP	PKPdf	07 51 45.0 -0.3
BRLS	Borolday	121.22 310	ePKP	PKPdf	07 51 45.1 -0.3
SVE	Sverdlovsk	124.00 327	ePKIKP	PKPdf	07 51 50.8 +0.4
comp-Z, 18nm, 1.1s					
ARTI	Arti	125.32 328	iPKIKP	PKPdf	07 51 52.4 -0.3
ARTI	Arti		e	PKPdf	07 53 44.8
ARTI	Arti		SS	SS	07 59 00.9
ARTI	Arti		SS	SS	08 10 30.4 -6.8
ARCES	ARCES Array B	126.89 352	PKP	PKPdf	07 51 55.5 +0.1
comp-Z, 9.3nm, 0.8s, baz=48, slow=1.1, SNR=23					
APA	Apacity	127.27 347	iPKIKP	PKPdf	07 51 55.5 -0.6
comp-Z, 6.0nm, 0.7s					
KIRV	Kirvo	128.53 333	PKP	PKPdf	07 51 58.8 0.0
comp-Z, 1.1nm, 0.4s, baz=65, slow=4.9, SNR=3.5					
BOSA	Boshof	130.43 202	PKP	PKPdf	07 52 04.3 +0.7
comp-Z, 5.7nm, 1.1s, baz=115, slow=2.1, SNR=5.5					
KLMR	Klimovskoe	130.91 339	ePKIKP	PKPdf	07 52 01.3 -1.9
comp-Z, 2.9nm, 1.2s					
BELG	Belogorodsk	132.73 327	iPKIKP	PKPdf	07 52 06.8 -0.1
FINES	FINESS Array B	134.17 347	PKP	PKPdf	07 52 09.3 0.0
comp-Z, 5.3nm, 0.9s, baz=92, slow=3.1, SNR=9.9					
PUL	Pulkovo	134.59 343	iPKIKP	PKPdf	07 52 10.0 -0.2
comp-Z, 4.9nm, 0.7s					
MOS	Moscow	135.29 335	ePKIKP	PKPdf	07 52 12.1 +0.5
OBN	Obninsk	136.18 335	ePKIKP	PKPdf	07 52 13.0 +0.2
OBN	Obninsk		e	PKPdf	07 54 48.9
OBN	Obninsk		ePPP	PKPdf	07 57 48.0
OBN	Obninsk		ePPP	PKPdf	07 57 48.0
comp-Z, 30nm, 1.2s					
VRH	Novokhopovsk	136.44 328	ePKIKP	PKPdf	07 52 10.5 -3.4
comp-Z, 10.0nm, 0.8s					
NB2	NORAR Subarray	136.62 357	PKP	PKPre	07 52 03.0
comp-Z, 9.0nm, 1.4s, baz=12, slow=4.0					
NOA	NORAR Array B	136.62 357	PKP	PKPdf	07 52 14.2 +0.1
comp-Z, 1.4nm, 0.7s, baz=16, slow=3.9, SNR=5.6					
VSU	Vasula	136.67 345	iPKIKP	PKPdf	07 52 14.1 0.0
MAK	Makhachkala	137.12 315	iP	Pdf	07 49 20.7 -1.9
MAK	Makhachkala		i	Pdf	07 52 14.9
MAK	Makhachkala		i	Pdf	07 54 55.7
MAK	Makhachkala		ePPP	PKPdf	07 57 59.9
MAK	Makhachkala		SS	SS	08 13 00.3 -1.8
MAK	Makhachkala		eSSS	SSS	08 18 05.4
comp-Z, 116nm, 1.0s					
HFS	Hagfors	137.34 355	PKHKP	PKPre	07 52 04.7
comp-Z, 1.2nm, 0.6s, baz=75, slow=1.7, SNR=4.0					
HFS	Hagfors	137.34 355	PKP	PKPdf	07 52 15.3 0.0
comp-Z, 3.2nm, 0.7s, baz=131, slow=4.1, SNR=7.7					
AKT	Akhty	137.52 313	ePKIKP	PKPdf	07 52 16.1 -0.3
comp-Z, 12nm, 0.9s					
VSR	Storozhevo	137.69 330	ePKIKP	PKPdf	07 52 15.0 -1.2
comp-Z, 10.0nm, 1.1s					
VORD	Divnogorie	137.78 329	ePKIKP	PKPdf	07 52 15.3 -1.1
comp-Z, 10.0nm, 1.2s					
GOFC	Golitskoe	139.78 320	ePKIKP	PKPre	07 52 14.0
NAGM	Narocho	139.75 342	ePKIKP	PKPdf	07 52 20.5 +0.7
comp-Z, 9.0nm, 0.7s, baz=31					
MNK	Minsk	139.75 341	iPKIKP	PKPdf	07 52 20.6 +0.6
comp-Z, 23nm, 0.9s					
MNK	Minsk	139.75 341	iPKIKP	PKPdf	07 52 20.6 +0.6
comp-Z, 17nm, 0.8s					
MNK	Minsk	139.75 341	iPKIKP	PKPdf	07 52 20.6 +0.6
comp-Z, 1.1nm, 0.9s, baz=40					
MNK	Minsk		iPP	PKPdf	07 55 14.1 -1.3
MNK	Minsk		iPPP	PKPdf	07 58 16.6
MNK	Minsk		iSKS	SKSdf	07 59 25.6 -0.3
MNK	Minsk		iSKS	SKSdf	08 08 53.4 -2.6
MNK	Minsk		iSS	SSS	08 13 33.5 +1.8
MNK	Minsk		iSSS	SSS	08 18 46.0
MNK	Minsk		i	PKPdf	07 52 20.5 +0.6
MNK	Minsk		i	PKPdf	07 55 14.1
MNK	Minsk		iPPP	PKPdf	07 58 16.6
MNK	Minsk		i	PKPdf	07 59 25.5
MNK	Minsk		iSS	SSS	08 13 33.4 +1.8
MNK	Minsk		iSSS	SSS	08 18 45.9
comp-E, 23nm, 0.9s					
MNK	Minsk		e	PKPdf	07 52 20.6 +0.6
comp-N, 17nm, 0.8s					
MNK	Minsk		e	PKPdf	07 52 20.6 +0.6
comp-Z, 11nm, 0.9s					
MNK	Minsk		e	PKPdf	07 52 20.6 +0.6
comp-N, 1.1nm, 22.0s					
MNK	Minsk		e	PKPdf	07 52 20.6 +0.6
comp-E, 1.1nm, 21.0s					
MNK	Minsk		e	PKPdf	07 52 20.6 +0.6
comp-Z, 163nm, 21.0s					
KBZ	Khabaz	139.81 318	PKP	PKPdf	07 52 20.1 -0.3
comp-Z, 4.4nm, 0.9s, baz=86, slow=2.4, SNR=8.1					
KBZ	Khabaz	139.81 318	ePKIKP	PKPdf	07 52 22.2 -0.5
comp-Z, 4.0nm, 0.9s					
KIV	Kislovodsk	139.84 318	iPKIKP	PKPdf	07 52 19.6 -0.9
comp-Z, 7.0nm, 0.8s					
SHAT	Shidzhatmaz	139.96 318	iPKIKP	PKPdf	07 52 20.0 -1.0
SUW	Suwali	141.54 344	ePKP	PKPdf	07 52 18.3 -4.8
EKA	Eskdalemuir Ar	141.78 9	PKHKP	PKPre	07 52 16.1
comp-Z, 1.2nm, 0.7s, baz=30, slow=4.2, SNR=4.1					
EKA	Eskdalemuir Ar	141.78 9	PKP	PKPdf	07 52 25.4 -1.0
comp-Z, 2.3nm, 0.6s, baz=305, slow=2.2, SNR=6.9					
SOC	Sochi	141.88 320	ePKIKP	PKPdf	07 52 22.8 -1.3
SOC	Sochi		eSSS	SSS	07 59 29.4
SOC	Sochi		eSSS	SSS	08 19 19.9
comp-Z, 5.0nm, 0.4s					

AKASG	Malin Array Be	142.40 336	PKHKP	PKPre	07 52 20.1
comp-Z, 4.7nm, 0.8s, baz=42, slow=4.2, SNR=15					
AKKB	Malin Array Si	142.40 336	iPKIKP	PKPdf	07 52 22.8 -2.0
KIEV	Kiev	142.41 336	iPKIKP	PKPdf	07 52 20.5 -4.3
KIEV	Kiev	142.41 336	iPKIKP	PKPdf	07 52 20.5 -4.3
RNPFR	RNPFR	143.01 340	PKP	PKPdf	07 52 23.3 -2.5
RAYN	Ar Rayn	143.02 286	iPKIKP	PKPdf	07 52 25.2 -1.6
BSEB	Bad Segeberg	143.76 356	ePKPbc	PKPdf	07 52 24.7 0.0
comp-Z, 8.8, slow=3.0					
PSBA	Serra de Santa	143.97 48	ePKP	PKPbc	07 52 26.2 +0.3
PSBA	Serra de Santa	143.97 48	ePKP	PKPbc	07 52 26.2 +0.3
PAGU	Agualva, Azore	144.07 47	ePKP	PKPbc	07 52 27.5 +1.3
PAGU	Agualva, Azore	144.07 47	ePKP	PKPbc	07 52 27.5 +1.3
BEEL	Belsk	144.13 345	ePKP	PKPbc	07 52 26.5 +0.6
FOEL	Wolf Yetia	144.14 10	ePKP	PKPdf	07 52 27.3 -0.5
PECH	Serra do Cume	144.14 48	ePKP	PKPbc	07 52 26.9 +0.4
PECH	Serra do Cume	144.14 48	ePKP	PKPbc	07 52 26.9 +0.4
PSCM	Serra do Cume	144.14 48	ePKP	PKPbc	07 52 26.9 +0.4
PSM	Simferopol'	144.32 325	iPKIKP	PKPab	07 52 26.5 +0.1
SIM	Simferopol'		pmax		
comp-Z, 18nm, 0.8s					
LH1M	Long Mynd	144.55 10	eP	PKPbc	07 52 27.3 +0.1
GORTI	Trebe	144.62 355	ePKPbc	PKPbc	07 52 27.7 +0.4
comp-Z, 8.8, slow=3.0					
RSSB	Rosebush, Pemb	144.75 12	eP	PKPdf	07 52 29.6 +0.7
SORM	Soroca	144.78 334	iP	PKPbc	07 52 28.4 +0.3
SORM	Soroca	144.78 334	iPKIKP	PKPbc	07 52 28.4 +0.3
SUF	Ruededorslow	144.86 352	ePKPbc	PKPab	07 52 27.9 -0.2
comp-Z, 8.8, slow=3.0					
RUE	Ruededorslow		ePKPbc	sPKPdf	07 52 51.3 +1.9
comp-Z, 7.1, slow=3.0					
RETH	Rethelaiders	145.01 357	ePKPbc	PKPbc	07 52 29.0 +0.4
comp-Z, 8.8, slow=3.0					
MCH1	Michaelchurch	145.03 10	eP	PKPab	07 52 28.9 +0.1
NRDL	Niedersach Rie	145.21 356	ePKPbc	PKPab	07 52 29.5 +0.2
comp-Z, 8.8, slow=3.0					
MONI	Monte	145.22 10	eP	PKPab	07 52 29.7 +0.3
FLTG	Flechtingen	145.28 355	ePKPbc	PKPbc	07 52 29.3 -0.2
comp-Z, 8.8, slow=3.0					
FLTG	Flechtingen		ePKPbc	sPKPdf	07 52 52.1 +2.0
comp-Z, 7.1, slow=3.0					
PURM	Purcal	145.35 331	iP	PKPdf	07 52 30.7 +0.7
STRD	Stroud	145.38 9	eP	PKPbc	07 52 29.9 0.0
OLDB	Oldbury-Upon-S	145.43 10	eP	PKPbc	07 52 30.1 +0.1
IBBN	Ibbenburen	145.50 359	ePKPbc	PKPab	07 52 30.6 +0.1
comp-Z, 8.8, slow=3.0					
PSET	Sete Citades	145.52 48	ePKP	PKPab	07 52 32.0 +0.8
PSET	Sete Citades	145.52 48	ePKP	PKPab	07 52 32.0 +0.8
ASSE	Asses, Remlinge	145.53 355	ePKPbc	PKPab	07 52 30.7 +0.2
comp-Z, 8.8, slow=3.0					
ASSE	Asses, Remlinge		ePKPbc	sPKPdf	07 52 52.9 +2.5
comp-Z, 7.1, slow=3.0					
MILM	Milestii Mici	145.53 332	iPKP	PKPbc	07 52 30.0 -0.5
comp-Z, 105nm, 1.2s					
MILM	Milestii Mici	145.53 332	iP	PKPbc	07 52 30.0 -0.5
MILM	Milestii Mici	145.53 332	iPKIKP	PKPbc	07 52 30.0 -0.5
KWP	Kalwarja Pacla	145.57 341	ePKP	PKPdf	07 52 30.5 +0.1
CMLA	Cha da Macela	145.68 48	ePKP	PKPab	07 52 32.2 +0.5
CMLA	Cha da Macela	145.68 48	ePKP	PKPab	07 52 32.2 +0.5
HTL	Harland	145.72 12	eP	PKPbc	07 52 31.1 +0.2
PGRON	Lagoa das Cont	145.78 48	ePKP	PKPbc	07 52 32.0 +0.3
PGRON	Lagoa das Cont	145.78 48	ePKP	PKPbc	07 52 32.0 +0.3
CLZ	Clausthal	145.84 356	ePKPbc	PKPab	07 52 31.9 +0.1
comp-Z, 8.8, slow=3.0					
OJC	Ojoc	145.86 345	ePKP	PKPbc	07 52 31.5 +0.1
BART	Pico Bartolome	145.93 48	ePKP	PKIKP	07 52 36.3 +0.6
BART	Pico Bartolome	145.93 48	ePKP	PKIKP	07 52 36.3 +0.6
WOL	Wolverton	145.97 9	eP	PKPbc	07 52 32.1 +0.3
KSP	Ksiaz	146.05 349	ePKP	PKPbc	07 52 32.2 +0.2
CLL	Collin	146.10 353	iPKP2	PKPbc	07 52 32.5 +0.3
CLL	Collin		pmax		
comp-Z, 172nm, 1.0s					
CLL	Collin	146.10 353	ePKPbc	PKPbc	07 52 32.4 +0.2
comp-Z, 8.8, slow=3.0					
CLL	Collin	146.10 353	iPKPbc	PKPbc	07 52 32.5 +0.3
comp-Z, 172nm, 1.0s</					

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, I, S, C. Includes stations like SQA, DAVA, OBKA, MPEP, MYKA, FETA, ABTA, DAVOX, LJU, BOVS, KDZ, CEY, BOJS, VTS, ALN, RZN, RDO, GADA, MMB, EZN, KKB, KAVA, THAS, SRS, PRK, LIA, SKO, BLYC, KNT, VAV, PGAV, PCAB, BODT, POLO, PBRG, PVRL, OHR, MVO, PMOZ, PVIS, PMAR, PCAS, KPRO, MTE, PSBE, PSARD, PSARD, PCBR, ANX, PMTG, PMRV, PESTR, EVORA, DRO, FSK, IDI, VLI, PTEO, MESJ, PBEJ, ESDC, MORF, MORF, MORF, PCVE, PFVI, PBAR, PVAO, KEST, MDT, DBIC, TORD, TORD.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, I, S, C. Includes stations like ZALV, KURBS, MKAR, IDC 2007:53:01.4, MSVF, PPT, PMG, ASAR, WRA, H03S2, H03S1, H03S3, H03N2, H03N3, H03N1, SNA4, AKASG, MEX 2007:54:14.4, THIG, THIG, SMCA, PATR, PAVE, RETALHULEU, STGB, STGB, STGB, HUEHUETENANGO, PCIG, CCIG, TGIG, IDC 2007:54:51.0, BADI, BATI, FITZ, FITZ, WRA, WRA, ASAR, ASAR, MKAR, TIF, MOS, NORS, DRS, IDC 2007:58:41.6, DVE, DVE, GROC, GROC, DLMR, DLMR, DLMR, DLMR, BTLR, BTLR, BTLR, KRNR, KRNR, KRNR, UNCR, UNCR, UNCR, UNCR, HNZR, HNZR, XNZR, XNZR, BUJN, BUJN, BUJN, BUJN, ARKR, ARKR, ARKR, ARKR, SHTL, SHTL, SHTL, SHTL.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, I, S, C. Includes stations like KANR, KANR, KANR, KMGRR, KMGRR, KMGRR, MAK, MAK, MAK, MAK, MAK, MAK, GUNBR, GUNBR, GUNBR, VLRK, VLRK, VLRK, BTKR, BTKR, BTKR, CHRG, CHRG, KMKR, KMKR, KMKR, ARNR, ARNR, ARNR, GUDG, GUDG, GUDG, PRTR, PRTR, PRTR, URKR, URKR, URKR, STDR, STDR, STDR, KORR, KORR, LSNR, LSNR, LSNR, SEAG, SEAG, SEAG, TBGL, TBGL, TBGL, BTNK, BTNK, DGRG, DGRG, DGRG, NCK, NCK, NCK, DIGR, DIGR, DIGR, VSHL, VSHL, VSHL, GARIG, GARIG, GARIG, AKT, AKT, AKT, KBTC, KBTC, KBTC, PRKA, PRKA, KSMR, KSMR, KSMR, KBZ, KBZ, KBZ, BEYR, BEYR, BEYR, GANJ, GANJ, SH1, SH1, SH1, KIV, KIV, KIV, GOF, GOF, GOF, GN1, GN1, GN1, RPOR, RPOR, RPOR, GUZR, GUZR, GUZR, GUZR, GUZR, GUZR, GUZR, GUZR, AKTO, AKTO, AKTO, AB31, AB31, AB31, AB31, OBN, OBN, OBN, BRVK, BRVK, BRVK, KURK, KURK, KURK, WRA, WRA, WRA.

ASRS 2007:35:48.0, 53.95N, 86.59E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.
IDC 2007:35:52.0, 2.6, 53.97N, 86.50E, h0km, mbmp2.8/2, ML2.6/2, Error ellipse: s-maj=21.5km s-min=12.8km, az=63.0, Southwestern Siberia

Code Station Name Az AzZ Phase ID Time Res I S C
46RU ZALESOVO INFRA 0.99 270 Pg Pg 07 36 10.0 -1.0
ZALV Zalesovo Beam 0.99 270 Pg Pg 07 36 10.0 -1.0

NEIC 2008:00:16.8, 1.2, 52.9N, 0.2, 171.28E, 0.09, h10km, 1km, mb3.8/23, Error ellipse: s-maj=28.3km s-min=9.0km, az=181.0
IDC 2008:00:16.4, 1.3, 53.07N, 171.35E, h0km, mb3.6/12, mbmp3.6/13, ML3.0/1, MS3.9/4, Error ellipse: s-maj=42.0km s-min=14.1km az=8.0
ISC 2008:00:18.8, 0.9, 52.8N, 0.2, 171.28E, 0.05, h27km, n59,

20d 8h

2019 JUN

1214

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Shemya Is, Alaska, Kuskulivak Mount, Kukka Creek, etc.

IDC 20 08:00:48.5:53.0, 19:08S:179.78W, h0km, mb4.1/3, mbtmp4.1/3, MS4.0/1, Error ellipse: s-maj=961.7km s-min=147.5km az=80.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Stephens Creek, Warramunga Arr, etc.

IDC 20 08:03:05.1:0.8, 12:68S:166.26E, h0km, mb4.1/13, mbtmp4.1/15, ML4.0/2, MS3.7/4, Error ellipse: s-maj=29.2km s-min=18.6km az=93.0

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Honiara, Mont Dzumac, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Nonsau, Stephens Creek, Warramunga Arr, etc.

IDC 20 08:05:03.9:0.0, 34:07N:162.16E, h0km, mb3.8/5, mbtmp3.7/10, ML3.3/5, MS3.4/1, Error ellipse: s-maj=40.9km s-min=16.6km az=20.0

THE 20 08:05:06.3:34.1N:69.2'E:3.5, h1km, 41km, MLh3.0/3 ISK 20 08:05:06.3:34.1N:69.2'E:3.5, h8km, ML3.2/15

ATH 20 08:05:08.3:1.1, 34:55N:25.95E, h10km, ML3.1/4, Manual Solution by A.Plessia First location: 2019/06/20 08:06:33

ISL 20 08:05:05.0:1.4, 34:40N:106.26E:0.03, h17km, gkm, n53, r167/57, mb3.6/5, Crete

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Zakros, Karpathos, etc.

IDC 20 08:05:06.3:34.1N:69.2'E:3.5, h1km, 41km, MLh3.0/3 ISK 20 08:05:06.3:34.1N:69.2'E:3.5, h8km, ML3.2/15

ATH 20 08:05:08.3:1.1, 34:55N:25.95E, h10km, ML3.1/4, Manual Solution by A.Plessia First location: 2019/06/20 08:06:33

ISL 20 08:05:05.0:1.4, 34:40N:106.26E:0.03, h17km, gkm, n53, r167/57, mb3.6/5, Crete

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Yattir, DSI, etc.

IDC 20 08:13:24.8:3.5, 30:10N:143:15E, h0km, mb3.8/7, mbtmp3.7/9, ML3.1/2, Error ellipse: s-maj=139.3km s-min=21.2km az=71.0

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Matsushiro Arr, Korea Array, etc.

STR 20 08:15:30.7:0.4, 46:11'N:121:00'W, h0km, MLv1.5/10, Error ellipse: s-maj=0.0km s-min=0.0km az=70.5, preliminary, France

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Corcelles, Saint Maurice, etc.

IDC 20 08:17:05.5:4.2, 30:12N:143:25E, h0km, mb3.7/5, mbtmp3.6/7, ML2.9/2, Error ellipse: s-maj=153.9km s-min=28.1km az=70.0

ISL 20 08:17:10.1:1.2, 30:30N:143:4E:0.4, h35km, n7, r1980/8, mb3.7/5, Southeast of Honshu

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like Matsushiro Arr, Gorye Array, etc.

UCR 20 08:17:36.6:1.1, 10:23N:84:51W, h82km, 1km, MW4.0 CATAc 20 08:17:37.4:0.3, 10:24N:84:51W, h4km, 4km, MS3.4/13, MLv3.4/13, Error ellipse: s-maj=5.6km s-min=3.3km

ISL 20 08:17:37.5:1.3, 10:20N:0:03:84:52W:0.02, h78km, 5km, n149, r099/233, 80C-13Z, Costa Rica

Table with columns: Code, Station Name, Az, Phase ID, Time Res, ISC, h m s, Res ISC. Includes stations like San Ramn, Ramo San Ramon, etc.



Table with columns: Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like PURI Puriscal, SANTA Santa Ana, JTS Las Juntas de, etc.

Table with columns: Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like BLUN Bluefields, BLUN Bluefields, ESN Las Esperanzas, etc.

IDC 20 08:20:12.0:3.0.53:61N:87:87E, h0km, mbtmp2.9/2, ML2.2/2, Error ellipse: s-maj=27.0km s-min=17.5km

ASRS 20 08:20:10.0:1.3.53:62N:88:04E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV Zalevovo Beam, etc.

ASRS 20 08:25:11.0:0.8.54:62N:86:45E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 20 08:25:15.0:3.6.55:55N:86:30E, h0km, mbtmp2.7/2, ML2.5/2, Error ellipse: s-maj=27.2km s-min=16.3km

Table with columns: Code, Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalevovo Beam, ZALV Zalevovo Beam, etc.

NEIC 20 08:27:22.8:1.9.58:1S:0.1:25:3W:0.2, h35km, 1km, mb5.3/81, Mw5.2/13, Error ellipse: s-maj=18.5km

IDC 20 08:27:23.9:1.4.58:00S:25:38W, h46km, 11km, mb5.0/20, mbtmp5.2/22, ML4.9/2, MS4.5/31, Error ellipse: s-maj=15.2km s-min=10.6km az=59.0

GCMT 20 08:27:24.8:0.2.58:10S:0.0:1:24:80W:0.0:2, h38km, Mw5.3/134, Duration: 16s, Moment tensor solution: s110.6183, s134.c216, Duraton: 16s, Moment tensor: Scale 10^17

NEIC 20 08:27:26.1:1.58:07S:25:62W, h35km, mb5.3/14 Error ellipse: s-maj=20.9km s-min=10.8km az=111.8

NEIC 20 08:27:26.1:58:07S:25:43W, h46km, mb5.4, mb5.2, Mw5.2, MS4.9/8

ISC 20 08:27:24.0:0.5.58:13S:0.0:25:47W:0.0:6, h48km, 4km, mb36.1/31/626, mb5.3/65, MS4.7/40, 14C-7D, South Sandwich Islands region

Table with columns: Code, Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like HOPE Hope Point, VNA1 Neumayer-Stat, VNA3 Neumayer Olymp, etc.

Table with columns: Station Name, Station ID, Phase ID, Time, Res, ISC. Includes stations like MG03 comp=Z.228nm,1.8s, MG05 Puerto Natales, AY03 Cochrane, COYC Coyhaique, etc.



Table with columns for station ID, name, coordinates, and status. Includes stations like KURBB Kurchatov Arra, WMQ Urumqi, KURK Kurchatov, etc.

Table with columns for station ID, name, coordinates, and status. Includes stations like H29M Whitestone, G29M Pine Creek, CROE Citrus, etc.

Table with columns for station ID, name, coordinates, and status. Includes stations like F24K Squaw Lake, CHIR Chirikof Island, I23K Alim, etc.

20d 8h

Table with columns: ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like E19K Redstone River, K17K Iditarod, F19K Shalercuk Mo, etc.

ASRS 20 08:30:26.0, 0.5, 53.81N, 86.77E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 20 08:30:29.2, 3.3, 53.88N, 86.89E, h0km, mbtmp2.62, ML2.2/2, Error ellipse: s-maj=29.6km s-min=17.2km az=61.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

NNC 20 08:36:03.7, 9.4, 37.92N, 71.59E, h0km, mb3.6, mpv3.1, 1C-3D, Error ellipse: s-maj=72.2km s-min=55.6km az=174.0, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like AAK Ala-Archa, KK31 Karatay Array, etc.

ROM 20 08:39:35.0, 0.1, 38.483N, 0.004, 16.143E, 0.0006, h9km, ML2.2/2, Error ellipse: s-maj=0.6km s-min=0.2km az=133.0, Southern Italy

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like FERC Galatro, F19K Placania, etc.

2019 JUN

Main table with columns: PLAC, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like PLAC comp=N,268um,0.6s, PLAC comp=E,278um,1.6s, etc.

ROM 20 08:39:35.0, 0.1, 38.483N, 0.004, 16.143E, 0.0006, h9km, ML2.2/2, Error ellipse: s-maj=0.6km s-min=0.2km az=133.0, Southern Italy

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like Code Station Name, PLAC Placania, etc.

IDC 20 08:40:25.9, 0.7, 17.49N, 122.41E, h31km, mb4.0/22, mbtmp4.2/24, ML4.5/2, MS3.6/4, Error ellipse: s-maj=19.7km s-min=11.2km az=73.0

NEIC 20 08:40:26.8, 2.2, 17.53N, 106.122, 5E, 0.1, h32km, 6km, mb4.4/26, Error ellipse: s-maj=16.2km s-min=9.0km az=100.0

ISC 20 08:40:26.0, 0.4, 17.51N, 105.122, 47E, 0.09, h31km, n74, 0.987/3, mb4.4/34, MS3.8/3, Luzon

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like TGy Tagaytay City, TGy Pinliang, etc.

1218

Table with columns: YULB, TPUB, SSSLB, NACB, etc. Includes stations like YULB Yu-li, TPUB Taupu, SSSLB Suanglung, etc.

YKA Yellowknife Arr 88.63 23 P 08 53 15.9 +0.1

IDC 20 08:44:47.8-8.3, 1.15N-122.78E, h0km, mb3.5/2, mbtmp3.6/3, MS3.1/1, Error ellipse: s-maj=202.5km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like FITZ, WRA, ASAR, STKA.

IDC 20 08:44:49.0-3.2, 46.54N-154.97E, h0km, mb3.7/2, mbtmp3.6/3, ML2.1/1, Error ellipse: s-maj=78.7km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like PETK, FINES, TXAR.

NEIC 20 08:47:08.3-1.2, 21.9N-0.1, 143.4E-0.2, h210km, 9km, mb4.1/32, Error ellipse: s-maj=27.3km

IDC 20 08:47:09.1-2.3, 21.91N-143.38E, h224km, 22km, mb3.6/18, mbtmp4.2/20, Error ellipse: s-maj=17.4km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like JCJ, MAJO, JMM, ERM, KRSR, JKA, ASAJ, USRK, KLR, SONM, KNRA, SEY.

WBO WBO Warrungunga Arr 42.27 193 P 08 54 40.8 +0.3

ADK Adak 42.97 36 P 08 54 45.9 +0.2

FITZ Fitzroy Crossi 44.32 205 P 08 54 49.7 +0.7

ATKA Atka Island 43.48 36 P 08 54 57.7 -0.1

AS31 Alice Springs 46.16 192 P 08 55 11.1 -0.2

ASAR Alice Springs 46.16 192 P 08 55 11.0 -0.7

ASAR Alice Springs 46.16 192 P 08 55 11.8 +0.5

UNV UNV Unalaska Valle 49.40 37 P 08 55 35.5 -0.2

YKA Yellowknife Arr 88.63 23 P 08 53 15.9 +0.1

ARCES ARCES Array B 78.84 342 P 08 58 45.6 -1.3

KBZ Khabaz 82.39 314 P 08 59 06.2 0.0

NVAR Mina Array Bea 82.92 52 P 08 59 09.4 -0.1

FINES FINES Array B 83.12 335 P 08 59 08.0 -1.7

PLCA Paso Flores 145.73 131 P 09 06 22.6 +1.2

IDC 20 08:55:09.4-3.8, 53.61N-88.14E, h0km, mbmp2.5/2, ML1.9/2, Error ellipse: s-maj=35.4km

ASRS 20 08:55:11.0-1.2, 53.62N-87.94E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

SJA 20 08:56:09.0-0.6, 22.20S-68.84W, h128km, 2km, ML3.6, MW3.7

GUC 20 08:56:10.9-0.8, 22.17S-68.80W, h118km, 3km, ML3.6

IDC 20 08:56:09.3-1.4, 22.19S-0.03, 68.89W-0.04, h132km, 6km, n28, s150448, Northern Chile

AF01 San Pedro de A 1.01 319 P 08 56 32.3 +0.8

TA01 Diego Aracena 2.01 323 P 08 56 43.5 0.0

TA01 Diego Aracena 2.01 323 P 08 57 09.6 -0.2

TA01 Diego Aracena 2.01 323 P 08 57 11.6

GO01 Chuzmiza 2.52 353 P 08 56 50.9 +0.5

GO02 Mina Guanaco 3.03 192 P 08 56 42.0 -15

ASRS 20 09:04:54.0-0.7, 54.02N-86.52E, h0km, M2.8, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

WEL 20 09:05:21.7-1.37, 5.5-17.9E, h12km, M3.2/14, ML3.6/19, MLV3.2/14, Error ellipse: s-maj=12.2km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MXZ, WMGZ, PKGZ, PUKETI, HAZ, TWGZ, RIGZ, PRGZ, CNGZ, TKGZ, MWZ, URZ, RARZ, WHZ, MTHZ, SNMZ, KNZ, MHGZ, RTZ, MUGZ, TGRZ, OMRZ, RAHZ, RRRZ, WHZ, MTHZ, NMHZ, ARHZ, KUZ, BKZ, BKZ, TOZ, KUTZ, GRZ, MKAZ, WIAZ, KRHZ, TMVZ, ETVZ, KANVZ, ETAZ, MBAZ, OTVZ, SNVZ, CNVZ, AWAZ, HIZ, WCZ, BFZ, OUZ.

IDC 20 09:13:18.4-3.8, 65.08N-178.5W-0.1, h37km, n72, s161679, mb4.3/3, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MXZ, WMGZ, PKGZ, PUKETI, HAZ, TWGZ, RIGZ, PRGZ, CNGZ, TKGZ, MWZ, URZ, RARZ, WHZ, MTHZ, SNMZ, KNZ, MHGZ, RTZ, MUGZ, TGRZ, OMRZ, RAHZ, RRRZ, WHZ, MTHZ, NMHZ, ARHZ, KUZ, BKZ, BKZ, TOZ, KUTZ, GRZ, MKAZ, WIAZ, KRHZ, TMVZ, ETVZ, KANVZ, ETAZ, MBAZ, OTVZ, SNVZ, CNVZ, AWAZ, HIZ, WCZ, BFZ, OUZ.

IDC 20 09:13:18.4-3.8, 65.08N-178.5W-0.1, h37km, n72, s161679, mb4.3/3, South of Kermadec Islands

WEL 20 09:13:15.9-1.1, 34.5-17.8W, h1.3, h33km, M4.5/18, MB5.1/11, ML4.8/21, MLV4.7/18, Mw(mb)4.5/11, Error ellipse: s-maj=18.3km

NOU 20 09:13:18.4-3.8, 65.08N-178.5W-0.1, h37km, n72, s161679, mb4.3/3, South of Kermadec Islands

IDC 20 09:13:17.6-0.9, 34.14S-0.08, 178.5W-0.1, h37km, n72, s161679, mb4.3/3, South of Kermadec Islands

URZ Urewera 5.42 219 P 09 14 35.0 -0.8

URZ Urewera 5.42 219 P 09 15 36.5 -0.4

URZ Urewera 5.42 219 P 09 14 34.8 -0.9

URZ Urewera 5.42 219 P 09 15 37.1 +0.2

URZ Urewera 5.42 219 P 09 14 35.7 +0.6

URZ Urewera 5.42 219 P 09 15 35.4 -0.5

URZ Urewera 5.42 219 P 09 14 35.0 -0.8

URZ Urewera 5.42 219 P 09 15 36.5 -0.4

URZ Urewera 5.42 219 P 09 14 34.8 -0.9

URZ Urewera 5.42 219 P 09 15 37.1 +0.2





Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like URZ Urewera, RIGZ Rimuhau, TOZ Tahuroa Road, etc.

SDD 20 09:50:09.3±1.8, 18.68N;72.44W, h144km, 19km, MD3.4, ML2.9, MW3.4

OSPL 20 09:50:13.3±1.4, 19.09N;72.86W, h0km, 7km, ML2.5

ISC 20 09:50:16.0±1.3, 19.15N;0.07;71.9W, 0.1, h130km, 20km, n9, az74/17, 11C-1D, Dominican Republic region

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like LODA1 ITESIL, Dajabo, SDDR Presa de Saban, etc.

IDC 20 09:50:55.6±1.4, 12.95S;34.06E, h0km, mb3.9/5, mbmp3.9/6, ML4.1/1, MS3.3/3, Error ellipse: s-maj=68.8km

ISC 20 09:50:55.3±1.3, 13.4S;0.1;34.6E, 0.2, h10km, n17, c=349/20, mb4.0/5, Malawi

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like KRI Karoi, BROLN Thalogang, SOOWA Sowa, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like BVAR, MKAR Makanchi Array, KURBB Kurchatov Arra, etc.

CGC 20 09:52:55.6±0.8, 13.62N;91.41W, h30km, 6km, MD3.8, ML2.9, MW2.7, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like STG8 El Palmer, Qui, ESSG Sabana Grande, etc.

RSNC 20 10:01:55.1±0.0, 10.1N;1.7x7.3W, h108km, 3km, M2.6, mb3.1, ML2.4

FUNV 20 10:01:57.5, 10.41N;72.96W, h36km, MW3.5

ISC 20 10:01:53.8±1.6, 10.48N;0.05;73.04W, 0.04, h118km, 15km, n21, c1989/30, Northern Colombia

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like CRUC Correjon, Guaj, ARJC Ariguani, Magd, etc.

TEH 20 10:20:27.6, 33.54N;59.61E, h11km, 17km

MOS 20 10:20:27.8±1.2, 33.57N;59.71E, h12km, mb4.7/43, Error ellipse: s-maj=5.3km, s-min=4.3km, az=60.9

IDC 20 10:20:27.0±0.5, 33.43N;59.61E, h0km, mb4.2/28, mbmp4.3/32, ML3.8/3, MS3.5/30, Error ellipse: s-maj=14.3km, s-min=10.2km, az=2.0

THR 20 10:20:28.2±0.0, 33.56N;59.60E, h10km, 5km, ML4.6

NEIC 20 10:20:29.6±1.8, 33.53N;0.07;59.61E;0.09, h10km, 1km, mb4.5/72, Error ellipse: s-maj=13.3km, s-min=10.7km, az=307.0

ISC 20 10:20:28.9±0.9, 33.55N;0.03;59.59E;0.03, h8km, 5km, n399, c1550/370, mb4.5/117, MS3.6/33, 14C-1D, Northern and central Iran

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like AFRZ Afriz, SHRT Shahrakht, BAGH Bagheran, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like MRVT Maraveh taph, IMND Minodasht, IANJ Anjlio, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like DAMV Damavand, IVRN Yaramin, IKHL Koholud, etc.

IQOM Oom, MZPU Pul - Mazandar, KLNJ Kolanjah, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like ZNGN Zangian, JHBN Jehan bin, KBL Kabul, etc.

HGHA Hamedan- Ghayeh, DZET Dzerino, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like SIMJ Simiganj, HSAM Samen, WSK Wadi Sarin, etc.

BTk Batken, NIL Nilore, etc.

IUG Iuzhnyay, AKT Akhty, etc.

MAK Makhachkala, etc.

MAK Mak, etc.

Table with columns: Code, Station Name, Az, Phase, ID, ISC, Time, Res. Includes stations like BRLS Borolday, SEKA Sheki, etc.

JMU Jammu, etc.

BKRN Bikaner, DZA Taraz, etc.

ARSB Arslanbob, MAK Makhachkala, etc.

MAK Mak, etc.

MAK Mak, etc.

MAK Mak, etc.

MAK Mak, etc.

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MAK Mak, etc.

MAK Mak, etc.

MAK Mak, etc.

20d 10h

Table with columns for station call letters, name, frequency, power, polarization, and coordinates. Includes stations like BOOM, AB31, AKKAR, KLP, RAYN, etc.

2019 JUN

Table with columns for station call letters, name, frequency, power, polarization, and coordinates. Includes stations like OBN, ZAAO, ZALV, SORM, BISRR, etc.

1222

Table with columns for station call letters, name, frequency, power, polarization, and coordinates. Includes stations like KRUC, CONA, DPC, ARSA, KSP, etc.



20d 12h

Table with columns: ANG, SOEG, FRB, ILON, ILON, IVI, IVI, DBG, DBG, DBG, SCO, SCO, SCO, NRS, NRS, NRS, DAG, DAG, DAG, DAG, EUNU, EUNU, EUNU, RES, RES, RES, BLKN, BLKN. Includes station names, codes, and coordinates.

NEIC 20 11:23:03.6-0.2,36.289N-0.009-97.51W,0.01,h7km,4km, Error ellipse: s-maj=1.3km s-min=1.2km az=142.0

NEIC 20 11:23:03.5-0.2,36.283N-0.009-97.51W,0.007, h5km,2km,mb\_Lg2.8/97,ML3.0/40,Error ellipse: s-maj=1.3km s-min=0.8km az=183.0, Oklahoma

Main table for 20d 12h section, listing station codes (CROK, OK029, BLOK, etc.), station names, codes, and coordinates.

2019 JUN

Table listing station codes (NATX, BRDY, BGNE, etc.), station names, codes, and coordinates.

NNC 20 11:47:26.8-1.3,43.70N-69.73E,h0km,mb3.6,mpv3.1, Error ellipse: s-maj=7.1km s-min=4.5km az=146.0, Suspected Mining explosion.

SOME 20 11:47:26.4,43.67N-69.70E KRNET 20 11:47:27.0-1.1,43.55N-69.58E,mb2.9 Error ellipse: s-maj=7.1km s-min=4.5km az=146.0, h0km,n16, a=136/27,13C-6D,Central Kazakhstan

Table listing station codes (BRLS, KK31, KKAR, etc.), station names, codes, and coordinates.

IDC 20 12:10:55.1-1.9,7.27S-129.80E,h0km,mb3.5/2, mbtmp3.6/5,ML3.6/3, Error ellipse: s-maj=7.0km s-min=2.3km az=80.0, Banda Sea

Table listing station codes (FITZ, WRA, WRA, ASAR, etc.), station names, codes, and coordinates.

1224

Table listing VADS, ARCES, VADSO, ARCESS, ARCES Array B, with codes and coordinates.

HVO 20 12:33:31.4-0.7,20.77N-0.06-156.06W,0.05,h23km,7km, Error ellipse: s-maj=10.6km s-min=3.2km az=219.0

NEIC 20 12:33:28.8-1.4,20.79N-0.07-156.04W,0.07, h3km,1.0km,ML3.0/49,ML3.0/15(HVO), Error ellipse: s-maj=13.1km s-min=3.7km az=221.0, Hawaiian Islands

Main table for 1224 section, listing station codes (HLK, HLK, HLK, etc.), station names, codes, and coordinates.

IDC 20 12:54:54.7-0.8,2.27S-138.53E,h0km,mb3.9/8, mbtmp3.9/10,ML3.7/2,MS3.4/6, Error ellipse: s-maj=19.4km s-min=15.4km az=25.0, DJA 20 12:54:57.6-0.5,2.5S-13.9E, h19km,4km,MA.2/6, mb4.4/1,MLV4.1/6

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, SRPI Serui, JAY Jayapura, etc.

NEIC 20 12:58:41.2-1.7, 27.6N:01x104.8E:0.2, h10km, 2km, mb4.2/6, Error ellipse: s-maj=33.1km s-min=8.5km az=137.0

IDC 20 12:58:43.0-4.7, 28.40N:104.75E, h0km, mb3.9/10, mbtmp3.9/12, ML3.9/1, Error ellipse: s-maj=24.3km s-min=15.6km az=62.0

ISC 20 12:58:44.5-1.4, 21.22N:02-104.7E:0.1, h10km, n25, s1902/11, mb4.0/14, Sichuan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like ENH Enshi, GZH Guangzhou, CMAR Chiang Mai, SONM Songoing Array, etc.

IDC 20 13:00:04.5-1.3, 12.14N:143.97E, h0km, mb3.8/8, mbtmp3.8/8, MS3.4/3, Error ellipse: s-maj=36.1km s-min=22.4km az=126.0

ISC 20 13:00:08.4-1.1, 12.20N:02-143.9E:0.2, h26km, n12, s117/10, mb3.9/8, Station of Mariana Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like GUMO Guam, DAV Davao City, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KURBB Kurchatov Arra, ILAR Eielson Array, BVAR Borovoye Array, etc.

IDC 20 13:04:32.2-2.0, 6.20S:179.04W, h0km, mb3.9/5, mbtmp3.6/4, MS2.9/2, Error ellipse: s-maj=140.5km s-min=26.1km az=149.0, Fiji Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like STKA Stephens Creek, ASAR Alice Springs, WRA Warramunga Arr, etc.

IDC 20 13:07:16.2-1.9, 10.01N:126.03E, h0km, mb3.6/4, mbtmp3.6/4, MS2.9/2, Error ellipse: s-maj=196.5km s-min=30.1km az=69.0, Philippine Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KAPI Kappang, GUMO Guam, WRA Warramunga Arr, etc.

RSNC 20 13:10:35.9-0.7, N1-73W, h150km, 2km, M3.3, mb3.7, ML2.9, Northern Colombia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like BARC Barichara, BARR Barrancabermej, PAMC Pamplona, etc.

IDC 20 13:10:44.4-1.0, 31.03S:177.70W, h0km, mb4.1/4, mbtmp4.1/4, MS3.6/4, Error ellipse: s-maj=31.6km s-min=22.1km az=101.0

NEIC 20 13:10:50.3-1.1, 30.98S:0.06:178.0W:0.2, h35km, 2km, mb4.4/12, Error ellipse: s-maj=22.5km s-min=9.3km az=272.0

ISC 20 13:10:50.7-0.8, 31.07S:0.06:178.1W:0.2, h46km, n39, s176/36, mb4.4/11, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, MXZ Matakaoa Point, URZ Urewera, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like DZM Mont Dzumac, RAR Rarotonga, ARMA Armidale, etc.

IDC 20 13:19:33.0-1.0, 50.08N:79.14E, h0km, mb2.9, mpv2.7, Error ellipse: s-maj=21.5km s-min=5.2km az=58.0, Suspected Mining explosion

IDC 20 13:19:34.5-1.0, 50.05N:78.73E, h0km, mbtmp2.6/2, ML2.1/2, Error ellipse: s-maj=14.2km s-min=6.4km az=67.0

ISC 20 13:19:34.9-1.0, 50.03N:0.05:78.74E:0.09, h0km, n18, s085/29, 9C-14D, Eastern Kazakhstan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like BBOO Buckleboe, ASAR Alice Springs, WRA Warramunga Arr, etc.

NNC 20 13:19:33.0-1.0, 50.08N:79.14E, h0km, mb2.9, mpv2.7, Error ellipse: s-maj=21.5km s-min=5.2km az=58.0

IDC 20 13:19:34.5-1.0, 50.05N:78.73E, h0km, mbtmp2.6/2, ML2.1/2, Error ellipse: s-maj=14.2km s-min=6.4km az=67.0

ISC 20 13:19:34.9-1.0, 50.03N:0.05:78.74E:0.09, h0km, n18, s085/29, 9C-14D, Eastern Kazakhstan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like KUR07 Kurchatov Arra, KUR06 Kurchatov Arra, KUR05 Kurchatov Arra, etc.

IDC 20 13:19:42.2-3.3, 30.55S:177.69W, h0km, mb3.8/3, mbtmp3.8/3, MS4.6/1, Error ellipse: s-maj=69.0km s-min=23.8km az=109.0, Kermadec Islands

ISC 20 13:19:42.2-3.3, 30.55S:177.69W, h0km, mb3.8/3, mbtmp3.8/3, MS4.6/1, Error ellipse: s-maj=69.0km s-min=23.8km az=109.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, STKA Stephens Creek, ASAR Alice Springs, etc.

20d 13h

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, Residual Error. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, AKASG Malin Arr Bay.

ADC 20 13:28:56.4,0.6,2.15S,138.54E,h0km,mb4.0/12, mbmp4.1/15,ML4.3/3,MS3.9/23,Error ellipse: s-maj=16.8km s-min=12.9km az=42.0 NEIC 20 13:28:57.2,2.2,2.28S:0.10,138.44E:0.07,h10km,1km, mb4.5/18,Error ellipse: s-maj=16.6km s-min=11.7km az=164.0

DJA 20 13:28:58.3,0.5,2.2S:4.13\*8E, h13km,4km,M4.7/9, mb4.7/5,MLV4.7/9 GCMT 20 13:29:01.9,0.3,1.98S:0.02,138.37E:0.02,h14km,2km, MW4.7/72,Moment Tensor Solution. s7,c7; s72,c94; Duration: 0 Moment tensor: Scale 10^19Nm; Mr0.45t+0.9; Mm0.62t+0.6; Mm0.107t+0.8; Mm0.47t+1.6; Mm0.94t+0.5; Mm0.06t+1.2; Best double couple: Mm1.39000x10^16 NP1.9s18.00000,0.865.00000,1.165.00000; NP2: 0s15.00000,0.876.00000,2.25.00000; Principal axes: T 1.2580,Plg27.0000, Azm339.0000; N 0.2690, Plg62.0000, Azm141.0000; P -1.5230,Plg7.0000, Azm245.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 20 13:28:57.8,0.4,2.33S:0.05,138.42E:0.03,h10km,n79, @151/69,mb4.3/24,MS3.9/23,1C,Irian Jaya

Main table of station data for the 20d 13h period, listing station codes, names, coordinates, and various parameters.

2019 JUN

Table of station data for the 2019 JUN period, listing station codes, names, coordinates, and various parameters.

ADC 20 13:31:01.7,0.9,2.13S:138.45E,h0km,mb4.1/8, mbmp4.2/11,ML4.2/3,MS4.0/3,Error ellipse: s-maj=30.8km s-min=19.5km az=77.0 NEIC 20 13:31:03.2,1.4,2.2S:0.1,138.41E:0.06,h10km,2km, mb4.9/9,Error ellipse: s-maj=19.3km s-min=4.1km az=27.0

DJA 20 13:31:04.1,0.3,2.2S:5.13\*8E, h10km,M4.5/7,mb4.7/2, MLV4.4/7

ISC 20 13:31:06.3,0.7,2.18S:0.08,138.39E:0.04,h36km,n34, @187/35,mb4.1/11,MS4.2/3,Irian Jaya

Main table of station data for the 2019 JUN period, listing station codes, names, coordinates, and various parameters.

1226

Table of station data for the 1226 period, listing station codes, names, coordinates, and various parameters.

ADC 20 13:37:51.6,6.7,31.31S:177.34W,h0km,mb3.5/2, mbmp3.5/2,Error ellipse: s-maj=294.7km s-min=57.2km az=157.0,Kermadec Islands region

DJA 20 13:37:51.6,6.7,31.31S:177.34W,h0km,mb3.5/2, mbmp3.5/2,Error ellipse: s-maj=294.7km s-min=57.2km az=157.0,Kermadec Islands region

Table of station data for the 1226 period, listing station codes, names, coordinates, and various parameters.

GC 20 13:42:21.0,0.8,14.21N:91.52W,h78km,10km,MD3.8, ML3.4,MW3.0,Guatemala

Main table of station data for the 1226 period, listing station codes, names, coordinates, and various parameters.

ADC 20 13:46:11.3,0.8,2.17S:138.46E,h0km,mb3.9/9, mbmp3.9/11,ML4.0/2,MS3.6/10,Error ellipse: s-maj=27.1km s-min=17.8km az=76.0 NEIC 20 13:46:12.5,1.8,2.35S:0.1,138.35E:0.07,h10km,1km, mb4.2/11,Error ellipse: s-maj=21.6km s-min=11.7km az=359.0

DJA 20 13:46:12.0,0.4,2.2S:5.13\*8E, h10km,M4.7/7,mb5.4/1, MLV4.9/7

ISC 20 13:46:12.6,0.6,2.23S:0.07,138.39E:0.04,h10km,n41, @193/36,mb4.1/13,MS3.5/6,Irian Jaya

Main table of station data for the 1226 period, listing station codes, names, coordinates, and various parameters.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BVAR Borovoye Array, ILAR Eielson Array, QSPA South Pole Qui, etc.

IDC 20 13:48:09.3, 1.5, 2.31N, 128.12E, h0km, mb3.9/5, mbmp4.0/5, MS3.8/2, Error ellipse: s-maj=131.7km s-min=18.5km az=67.0

DJA 20 13:48:29.5, 0.9, 2.0, N5.5, 12.8E, h109km, 11km, M4.0/6, mb5.1/1, mb4.4/1, MLV3.7/6, MW(MB)3.4/5.1

ISC 20 13:48:10.4, 1.4, 2.4N, 102.2, 128.4E, 0.2, h10km, n9, c058/7, mb4.2/5, Halmahera

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SSGSI Sangihe, MSAL Masohi, WRA Warramunga Arr, etc.

BER 20 13:48:59.8, 4.7, 7.156N, 12.12W, h10km, MW3.6, Confirmed Earthquake

ISC 20 13:48:56.7, 1.5, 7.15N, 0.1, 12.3W, 0.1, h10km, n11, c252/19, Jan Mayen Island region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JMI Jan Mayen, JMW Jan Mayen West, JNE Jan Mayen East, etc.

IDC 20 14:01:16.1, 0.9, 28.49N, 104.90E, h0km, mb3.8/9, mbmp3.8/11, ML4.0/1, MS3.3/1, Error ellipse: s-maj=25.8km s-min=16.5km az=60.0

ISC 20 14:01:19.0, 0.9, 28.5N, 0.1, 104.9E, 0.2, h10km, n11, c044/11, mb3.8/9, Sichuan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, SONM Songoing Array, KRSR Korea Array, etc.

IDC 20 14:06:29.8, 1.8, 26.25N, 110.57W, h0km, mb3.0/1, mbmp3.0/4, ML3.3/3, MS2.6/2, Error ellipse: s-maj=25.3km s-min=21.2km az=159.0

MEX 20 14:06:31.8, 0.4, 26.46N, 110.74W, h11km, 0km, MD4.2

ISC 20 14:06:26.6, 1.2, 26.38N, 0.03, 110.67W, 0.03, h13km, 10km, n21, c1997/35, 2C-2D, Gulf of California

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NE77 Loreto B.C.S., SNIRB San Nicolis, UAGRB Rancho Ultima, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LPIG comp=N,11nm,0.3s, bsz=4.8, slow=9.1, SNR=5.0, HSGI comp=N,45nm,18.6s, bsz=228, slow=29, etc.

IDC 20 14:07:41.1, 0.8, 2.23S, 138.51E, h0km, mb3.8/7, mbmp3.8/9, ML3.7/2, MS3.2/2, Error ellipse: s-maj=22.7km s-min=15.4km az=22.0

DJA 20 14:07:43.7, 0.6, 2.2, S5.6, 13.8E, h14km, 4km, M4.0/7, MLV4.0/7

ISC 20 14:07:45.9, 0.8, 2.2S, 0.1, 138.42E, 0.05, h36km, n17, c1949/17, mb3.9/5, Irrian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GEMI Genyem, SRPI Serui, Papua, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JAY Jayapura, BAKI Biak, PMG Port Moresby, etc.

IDC 20 14:17:53.2, 1.4, 2.19S, 138.43E, h0km, mb3.5/3, mbmp3.5/5, ML3.4/2, Error ellipse: s-maj=35.8km s-min=27.6km az=68.0

DJA 20 14:17:54.9, 0.6, 2.2, S5.5, 13.8E, h10km, 4km, M4.0/7, mb4.3/1, MLV3.8/7

ISC 20 14:17:58.5, 0.9, 2.2S, 0.1, 138.38E, 0.05, h36km, n11, c1943/14, mb3.5/3, Irrian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GEMI Genyem, SRPI Serui, Papua, etc.

NEIC 20 14:30:06.5, 2.4, 33.35S, 0.05, 119.52E, 0.08, h10km, 1km, mb4.2/12, Error ellipse: s-maj=13.8km s-min=5.9km az=54.0

IDC 20 14:30:07.8, 1.2, 33.08S, 119.35E, h0km, mb4.5/2, mbmp4.4/6, ML4.4/4, Error ellipse: s-maj=27.9km s-min=13.5km az=176.0

NOU 20 14:30:08.7, 33.24S, 119.30E, h0km, mb4.3/11, Western Australia

AUST 20 14:30:09.4, 0.3, 33.3, S3.3, 11.9E, h10km, mb4.5/6, ML4.2/10, Error ellipse: s-maj=5.6km s-min=3.6km az=176.6

CUPWA 20 14:30:11.0, 4.3, 33.24S, 119.24E, h2km, 16km, ML4.3, Region: WESTERN AUSTRALIA

ISC 20 14:30:06.3, 1.6, 33.30S, 0.04, 119.49E, 0.04, h7km, 11km, n76, c213/80, mb4.8/6, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like AUKUL Kulin High Sch, GNOW Gnowangerup To, COR12 Corriging, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PING Pingly, KLBRR Kellerberrin, BKIRB Bahia Kino, etc.

FORT Forrest, WRA Warakurna, GIRL Giralda, PSADP Pilbara Seismi, PSAD0 Pilbara Seismi, PSAD00 Pilbara Seismi

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MBWA Marble Bar, MULG Mulgathing, BBOO Buckleboo, etc.

AS10 Alice Springs, FITZ Fitzroy Crossi, FITZ Fitzroy Crossi

STKA Stephens Creek, WRA Warramunga Arr, WRA Warramunga Arr

WB2 Warramunga Arr, WR8 Warramunga Arr, WB0 Warramunga Arr

KNRA Kununurra, MTN Manton Dam, TAU Tasmania Ute

CTAO Charters Water, PLWZ Pulliser, QSPA South Pole Qui, QSPA South Pole Qui

PZH PanZhiHua, HHC Hu-ho-hao-te, HHC Hu-ho-hao-te

KURBB Kurchatov Arr, AUST 20 14:40:41.1, 0.5, 33.3S, 4.119E, h10km, ML2.5/7, Error ellipse: s-maj=7.7km s-min=7.0km az=12.1, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NWA0 Narrogin (SRO), KLBRR Kellerberrin, RKGY Rocky Gully, etc.

CUPW 20 14:41:40.9, 2.9, 33.26S, 119.14E, h2km, 16km, ML2.5, Region: WESTERN AUSTRALIA, Western Australia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like AUKUL Kulin High Sch, GNOW Gnowangerup To, GNOW Gnowangerup To, etc.

GCG 20 14:43:10.3, 1.1, 14.78N, 89.21W, h4km, 8km, MD3.6, ML3.6, CATAC 20 14:43:10.2, 0.4, 15.1N, 3.8E, h4km, 2km, M4.0/25, MLV4.0/25, Error ellipse: s-maj=6.8km s-min=3.0km az=25.5, confirmed

20d 15h

SNET 20 14:43:11.1.1.1, 14.63N-89.11W, h1km, 5km, ML3.4
ISC 20 14:43:08.4.1.2, 14.81N-0.03-89.09W, 0.03, h14km, gkm,
n81, c035/90, Guatemala

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists various stations like ESQI, ESQIP, MTO3, etc.

NOU 20 14:44:31.0, 22.02S, 170.02E, h0km, MLV3.9/9, Southeast of Loyalty Islands
IDC 20 14:44:34.9, 8.3, 21.87S, 170.01E, h82km, 53km, mb3.2/3,
mbmp3.6/4, ML3.8/1, MS3.4/3, Error ellipse:
s-maj=122.6km s-min=60.9km az=178.0

ISC 20 14:44:27.5, 2.22S, 0.1x170.3E, 0.2, h10km, n14,
c178/12, mb3.3/3, Southeast of Loyalty Islands

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like MARNC, PINNC, INH, etc.

IDC 20 14:47:50.6, 0.9, 28.67N, 87.40E, h0km, mb3.7/12,
mbmp3.7/13, ML3.3/1, MS3.2/5, Error ellipse:
s-maj=39.9km s-min=16.1km az=55.0

DMN 20 14:47:51.9, 0.0, 28.85N, 87.52E, h10km, M4.5/10, Error
ellipse: s-maj=0.0km s-min=0.0km az=0.0

ISC 20 14:47:51.6, 3.1, 28.82N, 10.0, 87.51E, 0.09, h4km, 21km,
n27, c1931/36, mb3.7/12, MS3.3/4, Kizang

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like GUN, ODAN, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like RAMN, KKN, KKN, etc.

NEIC 20 15:07:34.2, 1.4, 16.24S, 0.09, 173.76W, 0.09,
h146km, 11km, mb4.6/26, Error ellipse: s-maj=15.7km
s-min=9.8km az=219.0

IDC 20 15:07:36.5, 0.8, 16.15S, 174.24W, h145km, 8km, mb3.7/10,
mbmp4.2/11, MS3.3/3, Error ellipse: s-maj=24.9km
s-min=15.9km az=146.0

ISC 20 15:07:35.0, 0.5, 16.26S, 0.07, 173.80W, 0.06, h150km,
n88, c136/83, mb4.6/20, Tonga Islands

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like AFI, AFI, AFU, etc.

1228

Table with columns: EIDS, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like ARMA, ARMA, H11S2, etc.

ISC 20 15:20:27.9, 1.5, 26.20N, 0.05x110.58W, 0.10, h15km, n6,
c182/9, 3C-1D, Gulf of California

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like NE77, UAGRB, etc.

NNC 20 15:39:29.5, 11.0, 37.11N, 70.33E, h0km, mb3.7, mpv3.3,
2C-2D, Error ellipse: s-maj=92.5km s-min=78.0km
az=168.0, Afghanistan-Tajikistan border region

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like KK31, AAK, etc.

NEIC 20 15:46:31.4, 1.6, 3.29N, 0.08, 122.7E, 0.1, h502km, 10km,
mb4.1/21, Error ellipse: s-maj=17.9km s-min=10.9km
az=84.0

IDC 20 15:46:35.2, 2.6, 3.12N, 122.68E, h556km, 37km, mb3.1/9,
mbmp4.2/12, Error ellipse: s-maj=39.2km s-min=13.3km
az=57.0

ISC 20 15:46:31.0, 0.5, 3.34N, 0.08, 122.8E, 0.1, h500km, n43,
c1914/48, mb3.9/18, Celebes Sea

Table with columns: Code, Station Name, Az, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like TOLI, TOLI, etc.





Table with columns for station name, frequency, power, and other technical details. Includes stations like BTLS Baikal, MA2 Magadan, ZALV Zalesovo Beam, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like ANM Nome, L14K Kuka Creek, N14K Kuskokwak Cree, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like GCSA Galena City Sc, OHAK Old Harbor, C19K Lookout Ridge, etc.

20d 16h

Table with columns for station name, frequency, power, and other technical details. Includes stations like KLMR, PWR, KNK, G23K, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like SCRK, MENT, F26K, etc.

1232

Table with columns for station name, frequency, power, and other technical details. Includes stations like HFS, NB2, NOA, etc.

HEL 20 16:41:54.0, 1.59, 80N, 27.42E, h0km, ML 1.9, Explosion
EST 20 16:41:54.0, 1.59, 80N, 27.39E, h0km, ML 1.9(HEL),
Explosion
IDC 20 16:41:56.2, 0.5, 93N, 27.35E, h0km, mbtmp 2.9/3,
ML 2.3/3, Error ellipse: s-naj=16.8km s-min=10.0km
baz=11.0

Table with columns for Code, Station Name, Frequency, Power, and other technical details. Includes stations like EE04, VJF, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FIA1, RUOKOLAH, PIUSA CAVES, KEURUU, RAUMA, KANKAANPAA, etc.

NOU 20 16:58:57.1, 18.88S; 174.42W, h239km, mb4.4/11, Tonga Islands
NEIC 20 16:59:03.1, 19.4S; 175.9W, 0.2, h186km, qkm, mb4.5/28, Error ellipse: s-maj=22.2km s-min=18.3km az=51.0

ISC 20 16:59:10.4, 2.6, 19.44S; 175.94W, h260km, 29km, mb3.6/12, mbmtp4.3/14, Error ellipse: s-maj=19.1km s-min=15.3km az=112.0

ISC 20 16:59:10.5, 1.19, 46.6S; 0.09, 175.9W, 0.1, h263km, 14km, mb4.4, 0.95/85, mb4.1/22, 1D, Tonga Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LKBA, TAVE, DOGOTKI, NUSU, MSVF, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like QSPA South Pole Qui, JKA Kamikawa-asahi, PETK Petrovavloski, etc.

ISC 20 17:11:53.4, 3.2, 30.25S; 177.66W, h0km, mb3.3/2, mbmtp3.3/2, Error ellipse: s-maj=67.5km s-min=25.4km az=101.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, ASAR Alice Springs, etc.

ISC 20 17:14:00.5, 2.3, 31.01S; 177.53W, h0km, mb3.5/3, mbmtp3.6/3, Error ellipse: s-maj=65.0km s-min=43.0km az=43.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

ISC 20 17:20:03.5, 1.8, 31.08S; 177.50W, h0km, mb3.6/3, mbmtp3.6/3, Error ellipse: s-maj=46.7km s-min=25.2km az=87.0

ISC 20 17:20:07.4, 1.6, 31.05S; 177.50W, 0.3, h27km, m6, 0.72/6, mb3.6/3, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, ASAR Alice Springs, etc.

mb4.4/24, Error ellipse: s-maj=14.7km s-min=8.1km az=88.0

ISC 20 17:47:18.6, 0.5, 4.32N; 0.05, 125.73E, 0.08, h100km, m62, 0.154/64, mb4.3/26, Talaud Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SGSI Sangihe, DAV Davao City, DAV Davao City, etc.

ISC 20 17:57:41.8, 2.2, 7.92S; 159.99E, h0km, mb3.7/3, mbmtp3.7/3, Error ellipse: s-maj=48.1km s-min=25.3km az=84.0, Minnesota

20d 17h

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like HNR Honiara, H112 WAKE ISLAND Hy 27.07, H113 WAKE ISLAND Hy 27.07, WRA Warramunga Arr, H111 WAKE ISLAND Hy 28.29, H113 WAKE ISLAND Hy 28.30, H112 WAKE ISLAND Hy 28.31, ASAR Alice Springs, MKAR Makanchi Array.

IDC 20 17:58:42.0,0.5,23.46N,143.70E,h0km,mb4.5/27, mbmp4.5/31,ML4.1/3,MS3.6/35, Error ellipse: s-maj=18.0km, s-min=10.5km,az=77.0 MOS 20 17:58:42.7,1.0,23.47N,143.73E,h15km,mb4.8/35, Error ellipse: s-maj=12.5km, s-min=5.2km,az=111.5 NEIC 20 17:58:44.1,1.4,23.55N,143.73E,h0.1,h10km,1km, mb4.8/231, Error ellipse: s-maj=21.6km, s-min=13.0km, az=255.0 JMA 20 17:58:47.7,0.3,23.7N,1.0,14.4E,h110km,MV4.7/20, IOTO ISLANDS REGION ISC 20 17:58:46.9,0.4,23.53N,0.0,143.67E,0.0,8,h31km,n512, a1922/413,mb4.8/175,MS3.6/35,16C-1D,Volcano Islands region

Main table for 20d 17h section, listing station codes (JHH, CBJ, JCI, GUM, etc.) and their corresponding data points.

2019 JUN

Main table for 2019 JUN section, listing station codes (ZEA, PMG, SHEM, ULN, etc.) and their corresponding data points.

1234

Main table for 1234 section, listing station codes (ZALV, M15K, N15K, etc.) and their corresponding data points.

KURBB	comp=Z,14nm,0.6s,baz=93,slow=7.8,SNR=202	LR	LR	18 34 36.2	AAK	Ala-Archa	59.42 307	LR	LR	18 36 40.2	KK31	Karatay Array	62.28 308	I	Amb	I	Amb	18 09 07.9			
A19K	comp=Z,14nm,0.6s	56.53	20	P	P	18 08 27.4	+1.5	AAK	Ala-Archa	59.42 307	ceP	KKAR	Karatay Array	62.28 308	I	Amb	P	18 09 06.5	+0.4		
PRZ	comp=Z,20nm,0.9s	56.55	306	P	P	18 08 29.0	+2.3	AAK	Ala-Archa	59.42 307	ceP	KKAR	Karatay Array	62.28 308	I	Amb	P	18 09 07.9			
C19K	Lookout Ridge	56.56	21	P	P	18 08 27.7	+1.6	M23K	Glacier View	59.44 31	P	P	18 08 47.0	+0.5	L27K	Beaver Creek	62.28 30	P	P	18 09 07.6	
Q20K	Shuyak Island	56.68	34	P	P	18 08 27.7	+0.6	WAT6	Susitna Watana	59.54 30	P	P	18 08 47.5	+0.2	L27K	Beaver Creek	62.28 30	P	P	18 09 06.3	+0.5
L20K	Farwell, AK	56.72	30	P	P	18 08 28.2	+0.8	D23K	Nanushuk River	59.55 22	I	Amb	I	18 08 49.4	D23K	Nanushuk River	59.55 22	P	P	18 08 48.7	+1.6
E19K	Redstone River	56.77	23	I	Amb	I	18 08 29.7	SCM	Sheep Creek Mo	59.64 31	P	P	18 08 48.4	+0.5	GLI	Chandler Island	59.62 32	P	P	18 08 48.0	+0.2
E19K	Redstone River	56.77	23	P	P	18 08 28.5	+0.8	E23K	Chandler	59.72 24	P	P	18 08 50.0	+1.7	H27K	Steamboat Moun	62.59 26	P	P	18 09 09.0	+1.3
O20K	Slope Mountain	56.82	32	P	P	18 08 29.2	+1.0	DHY	Denali Highway	59.77 29	P	P	18 08 49.3	+0.5	BVCY	Beaver Creek	62.71 30	P	P	18 09 09.0	+0.4
D19K	Kuna River	56.82	22	I	Amb	I	18 08 30.0	C23K	Chandler	59.79 21	P	P	18 08 50.0	+1.4	E27K	Coleen River	62.71 24	I	Amb	I	18 09 17.9
D19K	Kuna River	56.82	22	P	P	18 08 28.9	+0.9	CCB	Clear Creek Bu	59.80 28	I	Amb	I	18 09 35.9	E27K	Coleen River	62.71 24	P	P	18 09 09.6	+1.1
K20K	Telida	56.84	28	I	Amb	I	18 08 30.6	TOLK	Toolik Lake Re	59.86 23	I	Amb	I	18 08 51.7	YUK3	Moose Creek	62.89 31	P	P	18 09 10.5	+0.5
K20K	Telida	56.84	28	P	P	18 08 29.3	+1.1	TOLK	Toolik Lake Re	59.86 23	P	P	18 08 50.5	PINM	Pinnacle	62.99 33	P	P	18 09 11.1	+0.6	
M20K	Styx River	56.93 30	P	P	18 08 29.8	+0.8	Q23K	Middleton Isla	59.88 34	P	P	18 08 49.9	+0.4	O28M	Mount Upton	63.01 32	P	P	18 09 11.1	+0.1	
J20K	Nowinta River	57.01 28	P	P	18 08 30.5	+1.1	H24K	Noodor Dome	59.97 26	I	Amb	I	18 08 52.1	I28M	Miner Creek	63.20 27	I	Amb	I	18 09 13.6	
I20K	Naaghedeneel	57.03 27	P	P	18 08 30.7	+1.2	H24K	Noodor Dome	59.97 26	P	P	18 08 51.1	+1.1	I28M	Miner Creek	63.20 27	P	P	18 09 12.4	+0.5	
H20K	Anotleneega Mo	57.06 26	P	P	18 08 30.9	+1.2	POKR	Poker Plat Res	60.03 27	P	P	18 08 51.0	+0.6	IYK8	Steele Glacier	63.22 32	P	P	18 09 13.0	+0.7	
F20K	Avaraart Lake	57.19 24	I	Amb	I	18 08 32.6	HDA	Harding Lake	60.14 28	I	Amb	I	18 08 51.5	F28M	Old Crow	63.32 25	I	Amb	I	18 09 15.0	
F20K	Avaraart Lake	57.19 24	P	P	18 08 31.5	+1.0	HDA	Harding Lake	60.14 28	P	P	18 08 50.9	-0.3	F28M	Old Crow	63.32 25	P	P	18 09 13.7	+1.2	
E20K	Nigu River	57.41 23	P	P	18 08 33.2	+1.0	E24K	Your Creek	60.14 24	P	P	18 08 52.3	+1.1	DAWY	Dawson	63.40 29	I	Amb	I	18 09 15.0	
D20K	Etiyuk River	57.41 22	P	P	18 08 33.3	+1.1	E24K	Your Creek	60.14 24	P	P	18 08 52.8	+1.6	DAWY	Dawson	63.40 29	P	P	18 09 13.7	+0.5	
KDJ	Kajisay	57.47 306	I	Amb	I	18 08 36.1	M24K	Tolsona, Glenn	60.21 31	P	P	18 08 52.6	+0.8	PNL	Peninsula	63.43 34	P	P	18 09 13.9	+0.5	
KDJ	Kajisay	57.47 306	P	P	18 08 35.3	+2.0	IL31		60.21 28	I	Amb	I	18 08 50.6	-1.0	E28M	Babbage River	63.50 24	P	P	18 09 15.3	+1.6
PPLA	Purkeypile	57.57 29	P	P	18 08 34.4	+0.8	IL31		60.21 28	P	P	18 08 52.0	O29M	Mount Kennedy	63.82 33	I	Amb	I	18 09 18.6		
IMAR	Indian Mountai	57.64 25	P	P	18 08 34.4	+0.5	ILAR	Eielson Array	60.21 28	P	P	18 08 50.4	-1.2	O29M	Mount Kennedy	63.82 33	I	Amb	I	18 09 17.4	+1.3
B20K	Meade River	57.69 20	P	P	18 08 35.3	+1.3	ILAR	Eielson Array	60.21 28	P	P	18 08 51.0	-0.7	O29M	Mount Kennedy	63.82 33	P	P	18 09 18.3		
SKT	Skwentna	57.69 30	I	Amb	I	18 08 35.7	ILAR	Eielson Array	60.21 28	P	P	18 08 50.4	-1.2	M29M	Somme Creek	63.82 30	I	Amb	I	18 09 16.7	+0.6
SKT	Skwentna	57.69 30	P	P	18 08 34.2	-0.1	ILAR	Eielson Array	60.21 28	P	P	18 08 51.0	-0.7	M29M	Somme Creek	63.82 30	P	P	18 09 16.7	+0.6	
BRSE	Bradley Lake S	57.70 33	P	P	18 08 34.4	+0.0	D24K	Happy Valley	60.24 22	I	Amb	I	18 08 53.8	H29M	Whitestone	63.87 26	I	Amb	I	18 09 18.3	
CHUM	Lake Minchumin	57.73 28	P	P	18 08 35.7	+1.3	D24K	Happy Valley	60.24 22	P	P	18 08 53.1	+1.3	H29M	Whitestone	63.87 26	P	P	18 09 17.1	+1.0	
CAST	Castle Rocks	57.73 29	I	Amb	I	18 08 36.4	F24K	Squaw Lake	60.26 24	I	Amb	I	18 08 54.6	H29M	Whitestone	63.87 26	I	Amb	I	18 09 18.1	
CAST	Castle Rocks	57.73 29	P	P	18 08 35.5	+1.0	F24K	Squaw Lake	60.26 24	P	P	18 08 53.3	+1.3	I29M	Ogilvie Camp	63.88 27	I	Amb	I	18 09 17.8	
G21K	Alakake	57.88 25	I	Amb	I	18 08 37.7	KLU	Klutina	60.27 31	I	Amb	I	18 08 53.8	I29M	Ogilvie Camp	63.88 27	P	P	18 09 17.3	+1.0	
G21K	Alakake	57.88 25	P	P	18 08 36.6	+1.1	KLU	Klutina	60.27 31	P	P	18 08 52.8	+0.6	IYK6	Outpost Mounta	63.91 32	P	P	18 09 17.7	+0.9	
H21K	Melozitna River	57.94 26	I	Amb	I	18 08 38.2	EYAK	Cordova Ski Ar	60.27 32	P	P	18 08 52.7	+0.6	L29M	L29M	63.97 30	P	P	18 09 18.3	+1.4	
H21K	Melozitna River	57.94 26	P	P	18 08 37.3	+1.4	G24K	Hadweencic Riv	60.27 25	I	Amb	I	18 08 54.6	G29M	Pine Creek	64.01 25	I	Amb	I	18 09 19.8	
SUA	Susitna One	57.97 31	P	P	18 08 35.6	-0.7	G24K	Hadweencic Riv	60.27 25	P	P	18 08 53.5	+1.4	G29M	Pine Creek	64.01 25	P	P	18 09 18.4	+1.2	
F10K	Alatna River	58.08 24	P	P	18 08 37.2	+0.3	C24K	Franklin Bluff	60.41 22	P	P	18 08 54.1	+1.2	SIMJ	Simiganj	64.08 303	I	Amb	I	18 09 18.7	+0.4
C21K	Knifeflade Rid	58.18 22	P	P	18 08 38.9	+1.4	K24K	Donnelly Dome	60.57 29	P	P	18 08 54.7	+0.2	SIMJ	Simiganj	64.08 303	P	P	18 09 20.1		
E21K	Killik River	58.25 23	I	Amb	I	18 08 40.1	PAX	Paxson	60.62 30	P	P	18 08 54.9	+0.3	E29M	Blow River	64.09 24	P	P	18 09 18.6	+1.0	
E21K	Killik River	58.25 23	P	P	18 08 39.0	+0.9	ARSB	Arslanbob	60.67 305	I	Amb	I	18 09 16.0	DZET	Dzherino	64.19 303	P	P	18 09 20.2	+1.2	
KTH	Kantishna Hill	58.27 29	I	Amb	I	18 08 40.0	HARP	HAARP	60.71 30	P	P	18 08 55.8	+0.7	K29M	Barlow Dome	64.23 29	I	Amb	I	18 09 20.9	
BPAW	Bear Paw Mtn.	58.34 28	I	Amb	I	18 08 40.6	G25K	Bearman Lake	60.82 25	P	P	18 08 57.2	+1.4	K29M	Barlow Dome	64.23 29	P	P	18 09 19.5	+0.8	
BPAW	Bear Paw Mtn.	58.34 28	P	P	18 08 39.4	+0.6	J25K	Salcha River	60.84 28	P	P	18 08 56.5	+0.5	P29M	Windy Crags	64.27 34	I	Amb	I	18 09 20.3	+1.3
BOOM	Boomsokoye usch	58.37 306	I	Amb	I	18 08 42.0	H25L	Birch Creek	60.86 26	P	P	18 08 57.0	+1.0	HYT	Haines Junctio	64.33 32	I	Amb	I	18 09 21.8	
BOOM	Boomsokoye usch	58.37 306	P	P	18 08 41.1	+1.6	BMRM	Bremner River	60.86 32	P	P	18 08 56.8	+0.6	HYT	Haines Junctio	64.33 32	P	P	18 09 19.9	+0.4	
B21K	Ikpiupik River	58.39 21	I	Amb	I	18 08 41.3	PRP	Porcupine Dome	60.88 27	P	P	18 08 55.8	-0.6	N30M	Aishikik Lake	64.50 32	P	P	18 09 21.2	+0.7	
B21K	Ikpiupik River	58.39 21	P	P	18 08 40.0	+1.1	KAIM	Kayak Island	60.89 33	P	P	18 08 56.9	+0.5	EPYK	Eagle Plains	64.53 26	P	P	18 09 21.3	+0.7	
RC01	Rabbit Creek A	58.39 32	P	P	18 08 38.8	-0.4	N25K	Chitna, Valde	60.91 31	P	P	18 08 57.1	+0.5	P30M	Million Dollar	64.64 33	P	P	18 09 22.5	+0.9	
SEW	Seward	58.39 33	I	Amb	I	18 08 39.9	RIDG	Independent Ri	60.98 29	I	Amb	I	18 08 58.0	G30M	toah Zrai Nji	64.72 25	P	P	18 09 22.2	+0.4	
SEW	Seward	58.39 33	P	P	18 08 39.0	-0.1	RIDG	Independent Ri	60.98 29	P	P	18 08 57.2	+0.2	J30M	Hart River	64.73 28	P	P	18 09 22.7	+0.7	
TRF	Thorofore Moun	58.53 29	P	P	18 08 40.4	+1.3	F25K	Christian River	61.12 24	P	P	18 09 01.4	KBL	Kabul	64.85 298	P	P	18 09 23.9	+0.5		
H22K	Ishlaltin	58.56 26	P	P	18 08 41.6	+1.3	D25K	Kavir River	61.12 22	P	P	18 08 59.7	+1.9	KBL	Kabul	64.85 298	P	P	18 09 24.3	+0.9	
KSH	Kashi	58.59 303	P	P	18 08 45.4	+3.3	E25K	Arctic Village	61.22 24	I	Amb	I	18 09 01.5	F30M	Barrier River	64.88 25	P	P	18 09 24.1	+1.3	
KSH	Kashi	58.59 303	sP	sP	18 08 52.1	+0.1	E25K	Arctic Village	61.22 24	P	P	18 09 00.0	+1.5	PLBC	Pleasant Camp	64.98 34	P	P	18 09 24.5	+1.0	
MLY	Manley	58.64 27	I	Amb	I	18 08 42.9	GLB	Gilahina Butte	61.27 32	I	Amb	I	18 09 00.7	O30N	Mendhall	65.03 32	P	P	18 09 24.8	+0.9	
MLY	Manley	58.64 27	P	P	18 08 41.8	+1.0	DOT	Dot Lake	61.31 29	I	Amb	I	18 09 00.4	S31K	Pelican	65.17 35	P	P	18 09 25.9	+1.2	
F22K	John River	58.64 24	P	P	18 08 42.7	+1.3	ARK	Arkit	61.38 306	P	P	18 09 01.7	+1.6	G31M	Satah River	65					

















1243

Table with columns for call sign, name, frequency, mode, and other details. Includes stations like ARPS Mount Arapiles, CTAO Charters Tower, STKA Stephens Creek, etc.

2019 JUN

Table with columns for call sign, name, frequency, mode, and other details. Includes stations like JNU Nakatsu, PLCA Paso Flores, KIWB Adk, etc.

20d 21h

Table with columns for call sign, name, frequency, mode, and other details. Includes stations like TXAR Lajitas Array, TXAR Comas Ranch, CMIG Matias Romero, etc.

Table with columns for station name, coordinates, and various status indicators. Includes stations like OBAN, VORR, VSR, VORD, ERBR, LABN, VSU, NC303, etc.

Table with columns for station name, coordinates, and various status indicators. Includes stations like GECZ, WERES, TNS, MOA, WLF, BIOA, RJOB, SOKA, LESA, OBKA, etc.

Table with columns for station name, coordinates, and various status indicators. Includes stations like QSPA, KAPI, DAV, SNA, MJAR, JUNU, PLCA, ASAJ, SHEM, PETK, etc.







Table with columns: XAN, comp, pmax, pmax, and various station names like ASAJ, USRK, BNK, etc.

CATAC 21 00:43:28.0-7.12N 98°36'W, h134km, 5km, M2.4/14, MLv2.4/14, Error ellipse: s-maj=22.4km s-min=7.0km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and station names like NADN, NANN, etc.

NEIC 21 00:59:00.9-1.3, 43.6N; 0.1x128.5W; 0.2, h10km, 2km, mb4.0/8, ML3.2/30, Error ellipse: s-maj=24.2km

ISC 21 00:59:01.8-3.0, 43.95N; 128.36W, h0km, mb3.3/4, mbmp3.3/5, ML2.8/1, MS3.1/2, Error ellipse: s-maj=66.3km

ISC 21 00:59:01.3-1.4, 43.77N; 0.1x128.5W; 0.1, h10km, n33, o138/25, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and station names like KEBM, J01E, etc.

Table with columns: I02E, I02E, K02D, H02B, etc., and station names like Swisshome, OR, Willamette Mer, etc.

IDC 21 01:46:30.9-0.8, 56.86N; 34°03'W, h0km, mb3.8/17, mbmp3.9/21, ML3.3/4, MS3.6/69, Error ellipse:

BGR 21 01:46:32.9, 58°12'N; 35.6°W, h10km, mb4.2, NEIC 21 01:46:32.5-2.6, 56.95N; 0.08-34.0W; 0.1, h10km, 1km, mb4.4/5.1, Error ellipse: s-maj=17.6km s-min=5.5km

GCMT 21 01:46:35.0-5.0, 56.93N; 0.03-34.12W; 0.03, h19km, 1km, MW4.784, Moment Tensor Solution, s6.6; s84.c100;

Duration: 0 Moment tensor: Scale 10^16Nm; Mir-0.73c.11; Mw0.62±0.09; Mw0.10±0.07; Mw0.27±0.15; Mw1.23±0.05; Mw0.16±0.14; Best double couple: Mo1.28500x10^16

NP1.3±0.00000; s71.00000; A-172.00000; NP2: 6±274.00000; s82.00000; A-19.00000; Principal axes: T1: 6.550, P1g7.00000; Azm321.00000; N-0.7490; P1g70.00000; Azm72.00000; P-0.9110; P1g19.00000; Azm229.00000; nsta1 refers to body waves, cutoff=40s.

nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 21 01:46:32.5-0.5, 56.94N; 0.08-34.08W; 0.05, h13km, n133, o153/67, mb4.3/46, MS3.5/65, Reykjanes Ridge

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, and station names like NRS, IVI, ANGG, etc.

Table with columns: GRF, CLL, USRK, etc., and station names like Grafenberg Arr, Colim, etc.



**AAK Ala-Archa** 6.26 27 Pn Pn 02 38 20.4 -0.1  
 1.0nm,0.4s  
 AAK Sn Sn 02 39 34.6 +1.8  
**TKM2** 3.4nm,0.8s 6.93 32 Pn Pn 02 38 28.9 -0.8  
 Tokmak 2 5.5nm,0.4s  
 TKM2 Sn Sn 02 39 49.9 +0.5  
 2.9nm,0.8s

**ASIES 21 02:45:39.1,24°52'N,120°12'E,h28km,ML4.0,Mw3.3.**  
**Moment Tensor Solution. Moment tensor: Scale 10<sup>21</sup>Nm;**  
*M<sub>11</sub>=-0.23; M<sub>22</sub>=0.37; M<sub>33</sub>=-0.14; M<sub>12</sub>=0.19; M<sub>13</sub>=-0.13;  
 M<sub>21</sub>=0.12; Fault plane solution: M<sub>1</sub>:0.9853x10<sup>21</sup> NP1:  
 φ=352.13000°,λ=166.83000°,λ-δ=9.2000°. NP2:φ=84.18000°,  
 δ=81.31000°,λ-166.68000°. Principal axes: T P1g3,1160°,  
 Azm217.7360°; N P1g74,1380°, Azm116.6920°; P  
 P1g15,5370°; Azm308.6030°.*

**TAP 21 02:45:39.1,24°52'N,120°12'E,h28km,1km,ML4.0,D**  
**ISC 21 02:45:39.1,24°52'N,120°12'E,0.02,120°12'E,0.02,h29km,11km,**  
**n133,φ664/219,5C-16D,Taiwan**

Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
						h m s	ISC
WDJ	Dajia District	0.50	109	P	Pn	02 45 50.1	-0.5
WDJ						02 45 58.1	-0.3
WCH1	Changhua City	0.59	138	eP	Pb	02 45 50.9	-0.3
WCH1						02 46 00.0	-0.3
WCHH	Zhanghua	0.59	137	eP	Pb	02 45 41.6	-0.2
WCHH						02 46 00.5	0.0
NSY	Sanyi	0.59	100	iP	Pn	02 45 51.9	0.0
NSY						02 46 00.9	+0.3
NMLH	Miaoili	0.61	88	iP	Pb	02 45 51.4	-0.3
WFL	Wufeng	0.62	106	iP	Pn	02 45 55.3	-0.6
TWO1	Liyutan	0.62	106	iP	Pn	02 45 52.1	-0.2
TWO1						02 46 01.3	0.0
TCU	Taichung	0.63	126	P	Pn	02 45 52.0	-0.3
TCU						02 46 00.9	-0.5
WRL	Guolierlin Hig	0.66	159	eP	Pb	02 45 52.3	-0.1
WRL						02 46 01.7	+0.6
WTCT	Ta-ch'eng	0.67	167	eP	Pb	02 45 52.2	-0.3
WTCT						02 46 01.6	+0.1
WVUC	WVUC	0.77	308	iP	Pn	02 45 54.0	-0.3
WVUC						02 46 04.4	-0.5
WHP	Taichung City	0.79	107	iP	Pn	02 45 54.5	-0.2
WHP						02 46 05.1	0.0
NGSD	Nanjuang	0.81	82	iP	Pn	02 45 55.0	+0.1
NSST						02 46 06.2	+0.3
WNT	Mingjian	0.82	141	iP	Pb	02 45 54.8	-0.3
WNT						02 46 06.5	+0.3
HSN	Hsinchu	0.82	70	eS	Pn	02 46 08.6	+2.5
HSN						02 46 08.6	+2.5
LI0B	Emei	0.83	81	iP	Pn	02 45 55.2	+0.1
LI0B						02 46 06.4	0.0
SBCB	Hsinchu	0.83	71	eP	Pn	02 45 55.6	+0.4
SBCB						02 46 07.5	+0.9
WCS	Beigang Elemen	0.86	122	iP	Pn	02 45 55.7	+0.2
WCS						02 46 07.2	+0.1
WTK	Tuku	0.86	163	P	Pn	02 45 55.3	-0.3
WTK						02 46 07.8	+0.7
WSF	Szhu	0.88	174	eP	Pn	02 45 55.6	-0.2
WSF						02 46 08.3	+0.7
WDL	Douliou City	0.89	154	P	Pn	02 45 55.1	-0.1
WDL						02 46 08.6	+0.9
WJZ	Zhushan	0.89	141	iP	Pn	02 45 55.8	-0.2
WJZ						02 46 08.2	+0.3
TYC	Yuchr	0.91	132	iP	Pn	02 45 56.0	-0.2
TYC						02 46 09.2	+0.9
WDLH	Douliu	0.91	155	iP	Pn	02 45 56.0	-0.2
WDLH						02 46 09.5	+1.2
NFF	Wufeng Townshi	0.92	83	iP	Pb	02 45 56.5	-0.3
NFF						02 46 08.8	+0.1
GFK	Gukeng	0.92	154	eP	Pn	02 45 56.5	+0.1
GFK						02 46 09.6	+1.0
SMLT	Sun Moon Lake	0.95	131	iP	Pn	02 45 56.8	-0.2
SMLT						02 46 10.6	+1.0
TDGB	Techi	0.98	105	iP	Pn	02 45 57.3	-0.1
TDGB						02 46 09.8	-0.8
WSL	Shuilin Townsh	0.99	174	eP	Pn	02 45 57.2	-0.2
WSL						02 46 09.5	+1.0
KSHI	Guanxi Townshi	1.00	75	eP	Pb	02 45 58.1	-0.1
KSHI						02 46 11.3	+0.5
TWT	Tachien	1.00	105	P	Pn	02 45 57.5	-0.2
TWT						02 46 09.8	-1.1
CHMZ	Minshiang	1.03	162	iP	Pn	02 46 12.9	+1.1
CHMZ						02 46 12.2	-0.1
PTMZ	Houxiangcun	1.05	300	iP	Pn	02 45 58.2	+0.1
PTMZ						02 46 12.2	-0.1
CHNS	Tsauling	1.05	151	iP	Pn	02 45 57.8	-0.4
CHNS						02 46 11.8	-0.1
WUSB	Renai	1.05	120	iP	Pn	02 46 12.2	+0.1
WUSB						02 45 58.6	-0.4
CHY	Chiayi	1.05	165	eP	Pn	02 46 13.8	+1.3
CHY						02 45 57.8	-0.4
SSLB	Suanguang	1.05	133	P	Pn	02 45 58.6	+0.1
SSLB						02 46 12.0	0.0
SSLB	Suanguang	1.05	133	iP	Pn	02 45 57.3	-0.4
SSLB						02 46 12.0	0.0
WHYT	Xinyi Township	1.06	140	eP	Pn	02 45 58.1	-0.2
WHYT						02 46 12.7	+0.1
FUSS	Fushou	1.06	104	eP	Pb	02 45 58.8	-0.5
FUSS						02 46 12.1	-0.4
NCUH	Zhongli	1.07	65	eP	Pb	02 45 58.8	-0.6
NCUH						02 46 13.4	+0.5
PNG	Penghu	1.08	209	eP	Pn	02 45 58.2	-0.3
PNG						02 46 12.5	0.0
WHF	Hehuan Shan	1.11	109	iP	Pn	02 46 00.1	-0.2
WHF						02 46 14.0	-0.6
OWD	Renai	1.12	120	iP	Pn	02 45 59.4	+0.2
OWD						02 46 13.6	-0.1
PHUB	Peng-hu	1.12	207	eP	Pn	02 45 59.0	-0.1
PHUB						02 46 13.0	-0.5
NSK	Sanguang	1.14	82	eP	Pn	02 45 59.4	-0.1
NSK						02 46 14.1	+0.1
NNS	Nan Shan	1.15	94	eP	Pb	02 46 00.7	0.0
NNSB	Datong	1.16	94	eP	Pb	02 46 00.1	-0.8
NNSB						02 46 13.8	-0.8
YHNB	Yeheng	1.16	82	P	Pn	02 45 59.7	0.0
YHNB						02 46 13.2	0.0
YHNB	Yeheng	1.16	82	eP	Pn	02 45 59.5	-0.1
YHNB						02 46 14.0	-0.6
ICHU	Yijhu	1.16	173	eP	Pn	02 46 00.3	-0.6
ICHU						02 46 16.4	+0.8
WCKO	Fanlu	1.16	157	eP	Pn	02 45 59.9	+0.2
WCKO						02 46 15.5	+0.1
CHNB	Yiju	1.17	176	eP	Pn	02 46 00.1	+0.3
CHNB						02 46 15.9	+0.2
ALS	Alishan	1.18	148	eP	Pn	02 46 00.0	-0.2
ALS						02 46 16.1	-0.3
VWDT	WVDT	1.20	129	eP	Pn	02 46 00.8	-0.7
VWDT						02 46 16.0	+0.4
YLX1	Xiulin Townshi	1.28	104	eP	Pb	02 46 02.1	-0.9
YLX1						02 46 01.9	+0.4
YLX1	Xiulin Townshi	1.28	112	eP	Pn	02 46 17.2	-0.6
YLX1						02 46 02.3	-0.7
LATG	Datong	1.28	89	eP	Pn	02 46 17.4	-0.2
LATG						02 46 01.6	+0.1
NWLT	Wulai	1.29	78	eP	Pn	02 46 17.6	-0.1
NWLT						02 46 01.8	+0.3
TKW	Hsiinying	1.29	165	eP	Pn	02 46 20.2	+0.9
TKW						02 46 01.5	-0.1
TPUB	Ta-pu	1.30	159	P	Pn	02 46 01.0	+0.5
TPUB						02 46 01.6	-0.1
TPUB	Ta-pu	1.30	159	eP	Pn	02 46 18.6	+0.6
TPUB						02 46 03.4	-0.1
TWS1	Kuangyinsshan	1.32	63	eP	Pn	02 46 01.6	-0.2
WDGT	Dungji	1.32	199	eP	Pn	02 46 18.3	-0.1
WDGT						02 46 02.2	+0.2
ENIT	Nioudou	1.32	84	eP	Pn	02 46 18.4	-0.2
ENIT						02 46 03.7	0.0
TATO	Taipei	1.33	70	P	Pb	02 46 21.2	+0.9
TATO						02 46 02.4	+0.3
SNST	Tainan City	1.34	165	eP	Pn	02 46 03.1	-0.9
SNST						02 46 20.3	-0.6
WTP	Ta-pu	1.34	160	eP	Pb	02 46 02.7	+0.2
WTP						02 46 03.7	-0.6
FUSB	Fushanzhiwuyua	1.36	79	eP	Pn	02 46 03.7	-0.6
FUSB						02 46 21.2	+0.1
TSCK	Chigu Township	1.36	181	P	Pb	02 46 03.1	+0.5
TSCK						02 46 03.1	+0.5
ETM	Tongmen	1.37	113	eP	Pn	02 46 03.1	+0.5

Code	Station Name	Δ°	AZ°	Phase	ID	Time	Res
						h m s	ISC
ETM	Dongshan	1.38	164	eS	Pn	02 46 19.5	-0.3
CHN1	Nanshi	1.38	164	P	Pb	02 46 02.9	+0.2
CHN1						02 46 21.1	-0.7
SSHA	Shanhua	1.38	174	eP	Pb	02 46 03.0	+0.2
SSHA						02 46 21.4	-0.5
NACB	Ninganchiao	1.39	104	eP	Pn	02 46 03.1	+0.3
NACB						02 46 20.1	-0.1
ESL	Shilin	1.39	120	P	Pn	02 46 03.4	+0.6
ESL						02 46 20.6	+0.4
WARBT	Fenglin Townsh	1.41	124	P	Pn	02 46 03.3	+0.3
WARBT						02 46 21.6	-1.0
TWST	Mucha	1.41	71	eP	Pn	02 46 03.1	+0.3
TWST						02 46 21.6	-1.1
TWA						02 46 03.5	+0.4
TWD	Chiawan	1.42	108	eP	Pn	02 46 03.5	+0.6
TWD						02 46 21.5	+0.6
ETL	Fush Village	1.42	104	eP	Pb	02 46 03.6	+0.3
ETL						02 46 22.2	+0.1
Neicheng		1.42	81	eP	Pb	02 46 22.0	-1.1
TWE						02 46 03.1	-0.5
VCHM	Qimei	1.45	206	eP	Pn	02 46 04.4	+0.7
VCHM						02 46 21.8	+0.1
ZUZH	Zhuzhiu	1.45	63	eP	Pn	02 46 04.9	+0.9
ZUZH						02 46 21.8	+0.1
ZH3H	Shinhua	1.45	171	eP	Pn	02 46 04.4	+0.4
ZH3H						02 46 22.8	+0.7
YMO1	YMO1	1.46	64	eP	Pn	02 46 04.2	+0.3
YMO1						02 46 22.8	+0.7
EGFH	Guangfu	1.46	125	eP	Pn	02 46 04.4	+0.5
EGFH						02 46 22.9	+0.8
STYH	Taoyuan	1.47	156	eP	Pn	02 46 04.5	+0.9
STYH						02 46 05.2	+0.8
ENA	Nanau	1.48	93	eP	Pb	02 46 05.0	-1.3
EAHA	Aohua	1.49	97	eP	Pn	02 46 04.4	+0.2
EAHA						02 46 23.5	+0.8
EHY	Hungye	1.49	132	eP	Pn	02 46 05.1	+0.9
EHY						02 46 24.2	+0.9
SHUL	Shoufeng	1.51	119	eP	Pb	02 46 05.5	-1.3
SHUL	</						



21d 4h

Table with columns: YUK, comp=N, 160nm, 0.2s, AMB, AMB, 03 41 59.9, etc. Lists various seismic stations and their parameters.

IBC 21 03:49:52.8-7.5, 30.799S-177.82W, h0km, mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=314.1km s-min=60.4km az=156.0, Keramed Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Lists stations like ARSA, SOKA, MOA, etc.

2019 JUN

Main table with columns: KOGS, Kog, 1.23 139, Pg, 03 52 35.0 +0.1, etc. Lists stations like MYKA, DOBS, GORS, etc.

IBC 21 03:53:40.1-1.4, 36.109N-142.01'E, h0km, mb3.8/8, mbtmp3.8/11, ML3.3, MS3.1/4, Error ellipse: s-maj=29.0km s-min=27.5km az=60.0

1250

Table with columns: JSD, Sado, 3.54 303, P, Pn, 03 54 37.8 +1.1, etc. Lists stations like JGF, ERM, ASAJ, etc.

IBC 21 04:01:58.5-10.0, 21.89S-148.72E, h0km, mbtmp3.0/2, ML2.8/2, Error ellipse: s-maj=95.6km s-min=81.2km

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Lists stations like WRA, ASAR, etc.

DKN 21 04:13:29.4-2.0, 78.93N-3.614E, h36km, 18km, ML 1.3 FCIAI 21 04:13:29.0, 79.30N-4.94E, h10km, station ZF12 has station magnitude of 3.50 station OMEGA has station magnitude of 3.50

BER 21 04:13:29.9-3.6, 79.01N-3.40E, h26km, 17km, Mw3.3, ML1.3(DNK), Confirmed Earthquake

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, ISC, Time, Res. Lists stations like KBS, BRBB, BRBA, etc.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for DRK Karamyk, NRN Naryn, UCH Uchtor, etc.

BER 21 04:20:40.6±4.6, 79.86N±2.48E, h10km, Mw3.7, ML2.8(NAO), Confirmed Earthquake

NAO 21 04:20:40.5±0.7, 79.82N±2.59E, h15km, ML2.8

FCIAR 21 04:20:41.0±0.8, 80.00N±4.71E, h10km, station ZF12 has station magnitude of 3.60 station OMEGA has station magnitude of 3.70

DNK 21 04:20:42.2±4.5, 79.81N±2.84E, h36km±33km, ML1.9

KOLA 21 04:20:44.3±7.9, 78.5N±4.53E, h0km, ML2.1, Error ellipse: s-maj=47.2km s-min=26.7km az=30.0, Greenland sea, Knipovich ridge, north

ISC 21 04:20:37.5±1.0, 79.82N±0.06±2.44E±0.05, h10km, n37, c±28/62, 2C, Greenland Sea

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for KBS Kingsbay, BRBB Barentsburg B, SPA0 Spitsbergen Arr, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for SPA0 baz=291,slow=37, SPITS Spitsbergen Arr, NOR Nord, etc.

JMA 21 04:25:06.3±0.4, 30.1N±0.8±14.3E±1.4, h40km, MV3.7/12, NEAR TORISHIMA IS, Southeast of Honshu

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for CBJJ Chichi jima, JHJ2 Mitsune, Boso, etc.

IDC 21 04:37:18.5±0.8, 23.79N±125.77E, h0km, mb3.9/12, mbmp3.9/14, ML3.6/2, MS3.3/7, Error ellipse: s-maj=35.4km s-min=17.3km az=72.0

NEIC 21 04:37:20.1±2.2, 23.85N±0.10±126.07E±0.09, h10km±1km, mb4.3/13, Error ellipse: s-maj=17.9km s-min=11.7km

az=146.0 JMA 21 04:37:20.4±0.2, 23.8N±0.8±126.1E±0.8, h54km, MD4.5/22, MV4.1/22, NEAR MIYAKUJIMA ISLAND

ISC 21 04:37:19.4±2.1, 23.86N±0.06±126.10E±0.05, h8km±12km, n83, c±1824/75, mb4.1/18, MS3.2/7, Southeast of Ryukyu Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for JOGS Gusukube, JMJ2 Miyako jima3, JMJ2 Miyako jima3, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for JYNG Nagotoyohara, JNTH Jow Kunigami, JOW Kunigami, etc.

IDC 21 04:52:56.1±2.1, 30.65S±177.59W, h0km, mb3.6/3, mbmp3.6/3, Error ellipse: s-maj=61.0km s-min=42.7km az=41.0, Kermadec Islands

ASAR Alice Springs 43.45 267 P P 05 01 01.3 ±0.1

WRA Warramunga Arr 44.46 272 P P 05 01 08.9 ±0.4

OSPA South Pole Qui 59.46 180 P P 05 03 00.4 ±0.2

FINES FINESS Array B 145.50 340 PKPbc PKPdf 05 12 34.9 ±0.6

SOF 21 04:57:15.7, 45.60N±0.02±26.44E±0.02, h150km±1km, MD3.3/5

BUC 21 04:57:16.4±0.2, 45.61N±26.45E, h144km±1km, m3.8/6/4, Error ellipse: s-maj=1.4km s-min=1.1km az=11.0

SIGU 21 04:57:16.2, 45.60N±26.43E, h145km, mb3.1

CFUSG 21 04:57:17.4, 45.61N±26.64E, h139km, mb2.9/3, Romania Magtype MSH 3 from 2 stations

BEO 21 04:57:15.6±1.2, 45.62N±0.03±26.45E±0.02, h151km±5km, n11, c±080/168, 70C±46D, Romania

21d 5h

Table with columns: Station Name, Frequency, Mode, and other parameters. Includes stations like PANC Panciu, COSR Cosmesti PH, BARAJ Valea Uz, etc.

2019 JUN

Table with columns: SELS Selova, TRUS Trudelj, DNZZ Donuzlav2, etc. Includes various station codes and frequencies.

1252

Table with columns: BARC Pamplona, Colo, PAMC Pamplona, La Rusia, PUERTO BERRIO, etc. Includes station names and frequencies.

1253 2019 JUN 21d 5h

I07A	Izee	6.47	84	Pn	05 24 41.0	-0.4	M24K	Tolsona, Glenn	2019 337	P	P	05 27 52.1	+1.5	EPL0	comp=Z,5.6nm,1.0s	IAMB	IAMB	05 28 31.6		
HAWA	Hanford	6.84	64	Pn	05 24 46.5	+0.2	CHIR	Chirikof Islan	21.14 314	P	P	05 27 51.8	+1.1	I23K	Minto, Yukon-K	24.40 339	P	P	05 28 24.1	-0.1
HOLB	Holberg	6.89	2	Pn	05 24 48.0	+1.0	LOG	Log Cabin Wild	21.15 341	P	P	05 27 50.4	-0.4	TXAR	Lajla River	24.45 118	P	P	05 28 25.9	+0.8
G08A	Pilot Rock	6.96	74	Pn	05 24 48.1	+0.1	L26K	Log Cabin Wild	21.15 341	P	P	05 27 51.8	+0.0	H25L	Birch Creek	24.48 343	P	P	05 28 24.8	0.0
D06A	Wollman Farm,	7.47	60	Pn	05 24 53.5	-1.4	L26K	Log Cabin Wild	21.15 341	P	P	05 27 51.1	+0.1	S12K	Black Hills	24.53 311	P	P	05 28 25.1	-0.4
NEW	Newport	9.08	56	Pn	05 25 11.2	-5.8	MENT	Menstata	21.16 341	P	IAMB	05 27 56.2	0.0	K20K	Telida	24.53 332	P	IAMB	05 28 25.5	+0.2
NEW	comp=N,0.1nm,0.3s,baz=14,slow=18,SNR=1.6			LR	05 28 41.7		MENT	MENT				05 27 52.8	+0.7	K20K	Telida	24.53 332	P	IAMB	05 28 25.5	+0.2
NVAR	Mina Array Bea	9.32	121	Pn	05 25 22.5	+2.0	SCM	Sheep Creek Mo	21.26 335	P		05 27 53.0	+0.7	K20K	Telida	24.53 332	P	IAMB	05 28 24.9	-0.5
ELK	Elko	10.25	103	Pn	05 25 37.7	+4.5	DAWY	Dawson	21.28 347	P		05 27 53.1	+0.7	WMOK	Wichita Moun	24.57 101	P	P	05 28 25.3	-0.7
ELK	comp=N,10.2nm,19.7s,baz=272,slow=39			LR	05 29 49.1		KNK	Knik Glacier	21.30 333	P		05 27 52.8	+0.0	H24K	Noodor Dome	24.57 341	P	P	05 28 26.0	+0.2
V35K	Ketchikan	11.76	351	P	05 25 55.2	+1.5	R18K	Kariuk	21.33 320	P		05 27 53.3	+0.4	M17K	Holifna River	24.62 326	P	P	05 28 26.0	-0.1
CRAG	Craig	12.11	347	P	05 25 59.8	+1.5	J30M	Hart River	21.33 351	P		05 27 55.1	+0.5	F28M	Old Crow	24.68 350	P	P	05 28 26.4	-0.3
U33K	Whale Pass	12.73	348	P	05 26 08.4	+1.6	M23K	Glacier View	21.35 334	P		05 27 55.8	+0.6	G26K	Porcupine Riv	24.68 346	P	P	05 28 26.8	+0.1
T35M	Bob Quinn	13.29	356	P	05 26 15.3	+0.8	RC01	Rabbit Creek A	21.50 331	P		05 27 56.7	+0.6	MLY	Manley	24.69 337	P	IAMB	05 28 26.8	-0.1
PDAR	Pinedale Array	13.81	88	Pn	05 26 27.7	-2.7	PAX	Paxson	21.63 339	P		05 27 56.7	+0.5	MLY	Manley	24.69 337	P	IAMB	05 28 26.8	-0.1
PDAR	comp=N,0.1nm,0.3s,baz=294,slow=13,SNR=1.6			LR	05 32 04.6		PMR	Palmer	21.65 333	P		05 27 57.6	+0.5	MLY	Manley	24.69 337	P	IAMB	05 28 26.8	-0.1
SIT	Sitka	14.01	344	P	05 26 25.8	+1.6	K27K	Chicken	21.75 344	P		05 27 57.6	+0.3	N16K	Nishlik Lake	24.70 323	P	P	05 28 27.1	+0.2
S34M	Telegraph Cree	14.28	354	P	05 26 29.6	+1.6	P19K	Oli Pt	21.91 325	P		05 27 59.6	+0.5	INK	Inuvik	24.75 355	P	P	05 28 27.2	0.0
DLBC	Dease Lake	14.73	357	Pn	05 26 33.5	-0.8	WAT8	Susitna Watana	21.95 336	P		05 28 00.0	+0.4	L18K	Granite Moun	24.78 328	P	IAMB	05 28 27.5	0.0
R32K	Eaglecrest	15.02	348	P	05 26 39.9	+1.8	I30M	Mot Dempster	21.96 351	P		05 28 00.4	+0.7	L18K	Granite Moun	24.78 328	P	IAMB	05 28 29.6	0.0
TOAD	Toad River Com	15.25	62	P	05 26 42.1	+1.0	M22K	Willow	22.10 332	P		05 28 01.7	+0.7	G25K	Bearman Lake	24.97 343	P	P	05 28 29.6	+0.4
Q32M	Nakina River	15.41	353	P	05 26 45.4	+2.0	RIDG	Independent Ri	22.11 341	IAMB	IAMB	05 28 03.7		H23K	Yukon River	24.98 339	P	P	05 28 29.3	-0.1
Y14A	Wickenburg	15.50	124	Pn	05 26 46.4	+1.8	RIDG	comp=Z,1.3nm,1.2s	22.11 341	P		05 28 01.5	+0.2	M16K	Timber Creek	25.05 324	P	P	05 28 30.1	+0.1
PV05	Paradox Valley	15.68	105	Pn	05 26 45.6	-1.4	SCRK	Sand Creek	22.11 342	P		05 28 02.6	+1.3	J20K	Golden River	25.11 333	P	P	05 28 30.1	-0.4
PV22	Blue Mesa, Par	15.70	103	Pn	05 26 46.2	-1.0	SCRK	Sand Creek	22.11 342	P		05 28 01.6	+0.3	N15K	Kwethluk River	25.14 322	P	P	05 28 31.5	+0.6
PV22	comp=Z,1.3nm,1.4s			IAMB	05 26 57.4		SUA	Susitna One	22.11 331	P		05 28 01.3	0.0	N15K	Kwethluk River	25.14 322	P	P	05 28 30.8	0.0
R33M	Jennings River	15.74	355	Pn	05 26 49.6	+1.9	O18K	Katmai Hardscr	22.13 322	P		05 28 01.8	+0.3	E29M	Blow River	25.19 352	P	P	05 28 30.8	-0.4
R33M	Jennings River	15.74	355	P	05 26 49.2	+1.6	DHY	Denali Highway	22.23 337	P	IAMB	05 28 02.9	+0.3	G24K	Hadweencz Riv	25.21 342	P	IAMB	05 28 31.7	+0.3
PV15	Paradox Valley	15.99	103	Pn	05 26 49.3	-1.9	DHY	comp=Z,9.1nm,1.0s	22.23 337	P	IAMB	05 28 03.0	+0.3	G24K	Hadweencz Riv	25.21 342	P	IAMB	05 28 33.2	0.0
P32M	Atlin	16.18	350	P	05 26 54.7	+1.4	DHY	Denali Highway	22.23 337	P		05 28 03.0	+0.3	BMAR	Burnt Mountain	25.25 345	P	P	05 28 32.3	+0.4
PLBC	Pleasant Camp	16.45	346	P	05 26 58.5	+1.8	H31M	Peel River	22.34 354	P		05 28 04.2	+0.6	O14K	Tiguykaiuit M	25.29 319	P	P	05 28 32.5	+0.4
BEAVL	Fort Liard	16.58	6	P	05 26 59.5	+1.3	I29M	Ogilvie Camp,	22.34 349	P		05 28 04.3	+0.8	L17K	Donlin	25.36 327	P	P	05 28 32.9	+0.1
KOTAN	Kotanelee Air	16.62	8	P	05 26 60.0	+1.3	Q17K	Contact Creek	22.34 320	P		05 28 04.2	+0.4	F26K	Sheenjek River	25.41 346	P	P	05 28 33.7	+0.4
P33M	Teslin, Yukon	16.69	352	P	05 27 01.3	+1.6	WAT1	Susitna Watana	22.39 336	P		05 28 04.6	+0.5	E27K	Golden River	25.45 349	P	P	05 28 33.7	+0.1
P29M	Windy Craggy	16.88	344	P	05 27 03.8	-0.4	J26L	Joseph Creek	22.47 343	P		05 28 05.0	-0.1	J19K	Poorman	25.48 332	P	P	05 28 33.9	0.0
P30M	Million Dollar	17.18	345	P	05 27 07.2	+1.3	I28M	Miner Creek	22.66 348	P		05 28 07.0	-0.1	H22K	Ishlaltina Cree	25.52 338	P	P	05 28 34.6	+0.3
PNL	Peninsula	17.28	341	P	05 27 09.0	+0.4	SKT	Skwentna	22.74 331	P		05 28 08.2	+0.3	J18K	Innoko River	25.53 330	IAMB	IAMB	05 28 34.5	+0.2
WHY	Whitehorse	17.37	349	P	05 27 10.2	+0.5	F33A	5 Mile Ranch,	22.84 73	P	IAMB	05 28 09.8	+0.8	J18K	comp=Z,5.4nm,0.9s	25.53 330	P	P	05 28 34.3	0.0
O30N	Mendenhall	17.65	348	P	05 27 13.2	+0.5	F33A	comp=Z,8.7nm,1.1s	22.85 324	P		05 28 18.6		E28M	Babbage River	25.58 351	P	P	05 28 35.3	+0.5
O29M	Mount Kennedy	17.67	343	P	05 27 13.0	0.0	O18K	kotkuh Hills,	22.85 324	P		05 28 09.3	+0.2	F25K	Christian Riv	25.59 345	P	P	05 28 35.1	+0.2
PINM	Pinacle	17.86	340	P	05 27 16.0	+0.9	ECS0	EROS Data Cent	22.93 79	P	IAMB	05 28 10.7	+0.6	L16K	Owhat River	25.61 325	P	P	05 28 35.3	+0.2
HYT	Haines Junctio	17.94	346	P	05 27 16.4	+0.5	ECS0	comp=Z,9.3nm,1.1s	22.94 310	P		05 28 17.8		I20K	Naaghdeneel	25.63 334	P	P	05 28 35.5	+0.3
YUK6	Outpost Mounta	18.21	344	P	05 27 20.1	+1.0	J25K	Salcha River,	22.97 341	P		05 28 10.1	-0.3	M15K	Kasigluk River	25.64 323	P	P	05 28 35.6	+0.2
N31M	Braeburn, Yuko	18.29	349	P	05 27 20.9	+1.3	ULM	Lac du Bonnet	23.02 62	P		05 28 11.4	+0.6	K17K	Iditarod	25.68 328	P	P	05 28 35.8	+0.1
MESA	MESA	18.36	338	P	05 27 21.5	+0.8	I27K	Kandik River	23.08 346	P		05 28 11.2	-0.3	K17K	Iditarod	25.68 328	P	P	05 28 35.2	-0.5
O28M	Mount Upton	18.44	342	P	05 27 22.3	+0.6	N19K	Bonanza Creek	23.10 327	P		05 28 12.8	+1.1	H21K	Melozitna Riv	25.74 337	P	P	05 28 36.0	-0.2
N30M	Aishkik Lake	18.46	347	P	05 27 22.6	+0.9	N19K	Bonanza Creek	23.10 327	P		05 28 11.8	+0.3	C36M	Paulatuk	25.76 4	P	P	05 28 36.1	-0.2
BGLC	Bering Glacier	18.69	336	P	05 27 25.1	+0.7	I26K	Coat Creek Min	23.10 344	P		05 28 11.8	+0.3	N14K	Kuskokwak Cree	25.76 321	P	P	05 28 36.2	-0.2
FARO	Faro, Yukon	18.73	353	P	05 27 25.4	+0.5	EPYK	Eagle Plains	23.11 352	P		05 28 11.8	+0.1	G23K	Bananza Creek	25.81 340	P	P	05 28 37.1	+0.2
M31M	Drury Creek, Y	18.81	351	P	05 27 26.5	+0.6	H29M	Whitestone	23.16 350	P		05 28 12.4	+0.1	EYMN	Ely	25.91 68	IAMB	IAMB	05 28 38.1	0.0
YUK8	Steele Glacier	18.81	343	P	05 27 26.4	+0.3	MCK	McKinley	23.19 337	P		05 28 12.3	-0.2	EYMN	Ely	25.91 68	IAMB	IAMB	05 28 45.7	0.0
KAIM	Kayak Island	18.87	335	P	05 27 27.1	+0.4	M20K	Styx River	23.24 330	P		05 28 13.2	0.0	F24K	Squaw Lake	25.98 343	P	P	05 28 38.6	+0.1
CTG	Chitna Glacier	18.88	340	P	05 27 27.1	+0.7	S14K	Fog Glacier	23.36 313	P		05 28 13.9	-0.5	E25K	Arctic Village	26.04 345	P	P	05 28 38.6	-0.4
MMPY	Sheldon Lake,	18.97	356	P	05 27 28.1	+0.9	TRF	Thorofare Moun	23.38 355	P		05 28 14.5	-0.1	M14K	Bethel	26.23 322	P	P	05 28 40.4	-0.2
ANMO	Albuquerque	19.11	110	P	05 27 32.0	+2.1	G31M	Satah River	23.43 334	P		05 28 14.8	-0.1	H20K	Anotlenega Mo	26.23 335	P	P	05 28 40.6	-0.1
ANMO	comp=Z,14.2nm,20.1s,baz=41,slow=38			LR	05 35 20.3		ILAR	Eielson Array	23.47 340	P		05 28 14.7	-0.7	IMAR	Indian Mountai	26.24 337	P	P	05 28 40.9	+0.1
CRQE	Cirque	19.16	338	P	05 27 30.4	+0.2	SDPT	Sand Point	23.57 311	P		05 28 15.9	-0.4	COLD	Coldfoot	26.26 341	P	P	05 28 41.4	+0.4
YUK3	Moose Creek	19.40	343	P	05 27 32.8	+0.7	N18K	Kilae Creek	23.59 325	P		05 28 16.2	-0.4	G22K	Bettes	26.34 340	P	P	05 28 41.6	0.0
M29M	Somme Creek	19.62	346	P	05 27 34.7	+0.4	PPLA	Purkeypile	23.59 333	P		05 28 16.2	-0.4	J17K	VABM Dome	26.35 329	P	P	05 28 42.6	+0.8
WRGLY	Wrigley	19.72	7	P	05 27 37.3	+0.5	PPLA	Purkeypile	23.59 333	P		05 28 18.2	+1.5	D27M	Malcoim River	26.36 350	P	P	05 28 42.2	+0.3
WRGLY	Wrigley	19.72	7	P	05 27 36.0	+0.7	PPLA	Purkeypile	23.59 333	P		05 28 15.8	-0.9	GCSA	Galena City Sc	26.38 333	P	P	05 28 42.2	+0.2
BMRM	Bremner River	19.76	336	P	05 27 36.5	+0.7	CCB	Clear Creek Bu	23.60 339	P		05 28 16.6	0.0	L15K	Unalak Mounta	26.43 324	P	P	05 28 42.3	-0.3
P23K	Montague Isian	19.91	331	P	05 27 38.7	-0.3	O17K	Kolignek Bris	23.62 323	P		05 28 16.2	-0.7	G21K	Allakaket	26.56 338	P	IAMB	05 28 44.5	+0.8
KSC0	Kaye Shedlock'	19.91	95	P	05 27 36.6	-1.2	H27K	Steamboat Moun	23.64 347	P		05 28 16.5	-0							

Table with columns: ID, Station Name, Time, Res, Code, Station Name, Phase ID, Time, Res. Includes stations like K13K Kusilvak Mount, C24K Franklin Bluff, M11K Mekoviyak, etc.

IDC 21 05:25:09.5:3.8, 53.54N:87.62E, h0km, mb4.3/5, mblmp4.4/6, ML4.4/1, MS3.6/7, Error ellipse: s-maj=34.9km s-min=17.4km az=56.0

ASRS 21 05:25:09.0:4.0, 53.49N:87.43E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p - CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Phase ID, Time, Res. Includes stations like H46RU ZALESOVO INFRA, ZALV Onelomo Beam, ZALV Onelomo Beam, etc.

IDC 21 05:34:19.9:0.8, 33.40S:178.76W, h0km, mb4.3/5, mblmp4.4/6, ML4.4/1, MS3.6/7, Error ellipse: s-maj=31.8km s-min=24.9km az=85.0

WEL 21 05:34:21.3:0.8, 34.56S:177.8W:1.5, h33km, M4.6/13, mB5.2/10, ML4.4/18, MLV4.8/13, Mw(MB)4.5/10, Error ellipse: s-maj=20.1km s-min=9.4km az=109.6, confirmed

NEIC 21 05:34:2.2:5.3, 33.47S:0.06:178.7W:0.2, h10km, 1km, mb4.4/11, Error ellipse: s-maj=26.6km s-min=5.5km az=109.0

ISC 21 05:34:24.5:0.6, 33.58S:0.06:178.5W:0.1, h41km, n73, o1889/84, mb4.3/12, MS3.7/5, 3C, South of Kermadec Islands

Table with columns: Code, Station Name, Phase ID, Time, Res. Includes stations like GLKZ Green Lake, RAO Raoul Island, RIZ Raoul Island, etc.

Table with columns: ID, Station Name, Time, Res, Code, Station Name, Phase ID, Time, Res. Includes stations like RAGZ Rawiri, RAGZ Rimuhau, RIGZ Paritu Road, etc.

FCIAR 21 05:39:14.0, 79.75N:21.13E, h10km, station OMEGA has station magnitude of 3.80 station ZF12 has station magnitude of 3.70

BER 21 05:39:14.0:4.8, 80.03N:20.16E, h15km, mb3.5/3, ML3.7(NAO), Confirmed Earthquake

IDC 21 05:39:17.3, 79.69N:20.54E, h0km, ML2.4, Error ellipse: s-maj=98.2km s-min=50.9km az=60.0, Spitsbergen

ISC 21 05:39:17.1:7.1, 79.55N:0.07:21.59E:0.04, h26km, 12km, n46, o2151/71, mb3.4/3, Svalbard region

Table with columns: Code, Station Name, Phase ID, Time, Res. Includes stations like SPA0 Spitsbergen Arr, SPA0 Spitsbergen Arr, SPA0 Spitsbergen Arr, etc.

Table with columns: ID, Station Name, Time, Res, Code, Station Name, Phase ID, Time, Res. Includes stations like HSPB Hornsund (broa), HSPB Hornsund (broa), HSPB Hornsund (broa), etc.

IDC 21 05:39:19.8:0.7, 31.32S:177.61W, h0km, mb4.3/8, mblmp4.3/9, ML4.6/1, Error ellipse: s-maj=26.0km s-min=18.8km az=91.0

NEIC 21 05:39:21.6:1.6, 31.34S:0.07:177.6W:0.2, h10km, 1km, mb4.7/17, Error ellipse: s-maj=25.4km s-min=10.5km az=76.0

ISC 21 05:39:23.7:0.6, 31.40S:0.07:177.7W:0.1, h26km, n42, o1823/45, mb4.6/17, 3C, Kermadec Islands region

Table with columns: Code, Station Name, Phase ID, Time, Res. Includes stations like RAO Raoul Island, RAO Raoul Island, RAO Raoul Island, etc.



Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CMAR, PZH, KDL, CD2, etc.

Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like WMQ, O14K, N14K, KDAK, etc.

Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, KURBB, etc.

ASRS 21 06:46:08.0, 0.8, 54.43N-86.10E, h0km, M2.3. The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROD, 2021.

IDC 21 06:46:09.3, 0.3, 54.43N-86.20E, h0km, mbtmp-2.712,







Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, and MKAR Makanchi Array.

ASRS 21 07:00:21.0±0.0, 54°16'N; 86°43'E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 21 07:00:23.2±0.0, 54°13'N; 86°50'E, h0km, mbtmp2.7/2, ML2.5/2, Error ellipse: s-maj=23.7km s-min=14.0km az=58.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, and MKAR Makanchi Array.

THE 21 07:02:10.9, 38°N; 2°11'E, h14km, 2km, M3.3/18, MLh3.3/18

PDG 21 07:02:11.1±0.3, 37°62'N; 20°64'E, h6km, 1km, ML3.4/8, Error ellipse: s-maj=1.0km s-min=1.9km az=0

ATH 21 07:02:11.1, 37°67'N; 20°66'E, h18km, ML3.2/12, Manual Solution by I.Dede First location: 2019/06/21 07:03:04, This location: 2019/06/21 09:25:29 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 0 km

IDC 21 07:02:10.8±1.2, 37°87'N; 0°04'±20°65'E, 0.04, h12km, 6km, n55, c081/97, Ionian Sea

Large table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists various stations like LTHK, ORTH, RTZL, etc.

IDC 21 07:02:42.1±3.1, 54°25'N; 87°15'E, h0km, mbtmp2.7/2, ML2.4/2, Error ellipse: s-maj=27.5km s-min=17.9km az=66.0, Southwestern Siberia

ASRS 21 07:02:41.0±0.0, 54°18'N; 87°11'E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, and MKAR Makanchi Array.

IDC 21 07:05:30.3±3.7, 54°54'N; 87°04'E, h0km, mbtmp2.6/2, ML2.0/2, Error ellipse: s-maj=33.1km s-min=22.6km az=43.0, Southwestern Siberia

ASRS 21 07:05:31.0±1.2, 54°39'N; 86°80'E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, and MKAR Makanchi Array.

IDC 21 07:09:54.6±1.1, 28°40'N; 104°76'E, h0km, mb3.7/6, mbtmp3.7/7, ML2.9/1, MS3.9/1, Error ellipse: s-maj=39.0km s-min=20.2km az=53.0, Southwestern Siberia

IDC 21 07:09:58.0±0.9, 28°6'N; 104°9E, 0.2, h19km, n9, c112/8, mb3.7/6, Sichuan

IDC 21 07:09:58.0±0.9, 28°6'N; 104°9E, 0.2, h19km, n9, c112/8, mb3.7/6, Sichuan

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for CMAR Chiang Mai Arr, SONM Songoing Arr, KSRS Korea Array, MKAR Makanchi Array, KURBB Kurchatov Arra, WRA Waramunga Arr, BRTR Reskin Arr B, ASAR Alice Springs, AKASA Malin Array B.

ASRS 21 07:10:12.0±0.6, 54°54'N; 83°60'E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 21 07:10:15.5±1.6, 54°57'N; 83°78'E, h0km, mbtmp2.9/3, ML2.4/3, Error ellipse: s-maj=15.3km s-min=9.2km az=8.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array, MKAR Makanchi Array, BVAR Borovoye Array.

WEL 21 07:10:55.4±1.2, 34°57'N; 77°19'E, h12km, M4.0/10, mb4.3/2, ML4.2/14, MLv4.0/10, Mw(mB)3.5/2, Error ellipse: s-maj=11.9km s-min=8.7km az=60.3, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists various stations like WNGZ, HAZ, PKGZ, etc.

ASRS 21 07:15:21.0±1.0, 54°40'N; 86°80'E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 21 07:15:06.1±3.2, 54°94'N; 84°07'E, h0km, mbtmp2.6/2, ML2.1/2, Error ellipse: s-maj=28.2km s-min=15.8km az=13.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, KURBB Kurchatov Arra.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for MKAR Makanchi Array, MKAR Makanchi Array.

CATAC 21 07:17:18.5±0.7, 13°N; 4°9'OW, h25km, 3km, M2.9/13, ML2.9/13, Error ellipse: s-maj=8.4km s-min=5.3km az=30.8, confirmed

SNET 21 07:17:19.3±0.9, 13°18'N; 89°52'W, h49km, 1km, ML2.9 GCG 21 07:17:19.3±0.6, 13°18'N; 89°52'W, h49km, 1km, MD3.5 ISC 21 07:17:18.3±2.5, 13°18'N; 0°1:89.598k0.07, h33km, 8km, n42, c039/49, El Salvador

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists various stations like JAYA, JAYA, JAYA, etc.

IDC 21 07:18:32.6±4.2, 53°76'N; 88°12'E, h0km, mbtmp2.6/2, ML2.1/2, Error ellipse: s-maj=41.0km s-min=20.6km az=45.0, Southwestern Siberia

ASRS 21 07:18:31.0±0.8, 53°73'N; 88°23'E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array.

ASRS 21 07:23:20.1±1.1, 53°69'N; 87°97'E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 21 07:23:15.3±3.2, 53°57'N; 87°90'E, h0km, mbtmp2.5/2, ML1.8/2, Error ellipse: s-maj=26.8km s-min=15.5km az=66.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes entries for ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array.

NOU 21 07:27:36.0±31.35S; 176°30'W, h46km, mb5.1/28, Kermadec Islands Region

IDC 21 07:27:36.7±0.4, 31°02'S; 177°52'W, h0km, mb4.7/19, mbtmp4.6/20, ML3.7/1, MS4.8/38, Error ellipse: s-maj=16.8km s-min=14.4km az=86.0

NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor

Duration: 2s Moment tensor: Scal: 1016Nm; M1: 7.36; M2: 1.38; M3: 5.98; M4: 0.38; M5: 2.05; M6: 2.08; Fault plane solution: M1: 7.39000x10^16 NP1: 0.207.86000; 0.38.24000; 1.01.68000; 0.13.12000; 0.52.69000; 0.80.94000; Principal axes: T: 7.7275, Plg8.0000; Azm24.0000; N: -0.7349, Plg7.0000; Azm19.0000; P: -6.9926, Plg7.0000; Azm11.0000;

NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor NEIC 21 07:27:40.5±31.03S; 177°57'W, h20km Moment Tensor

GCMT 21 07:27:42.1±0.1, 31°09'S; 0°01:177°15'W, 0°01, h13km, MMS: 21/28, Moment Tensor Solution: s85:c124; s128:c195; Duration: 1s0 Moment tensor: Scale 10^16 Nm; M1: 6.07; 1.6; M2: 0.55; 1.0; M3: 5.52; 1.1; M4: 1.34; 2.8; M5: 1.56; 0.8; M6: 4.8; 3.0; Best double couple: M7: 82100x10^16 NP1: 0.196.00000; 0.25.00000; 0.91.00000; NP2: 0.16.00000; 0.65.00000; 0.90.00000; Principal axes: T: 7.8710, Plg70.0000; Azm25.0000; N: -0.0960, Plg0.0000; Azm16.0000; P: -7.7700, Plg20.0000; Azm106.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s.

Triangular moment-rate function
ISC 21 07:27:41.0,0.3,311.19S,0.055,177.46W,0.06,h27km
n284,r1888/275,mb52/56,MS4.9/45,7C-10D,Kermadec

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists various stations like Green Lake, Raoul Island, etc.

Table with columns: VANDA, LR, LR, 07 52 34.1. Lists stations like JAY, KDU, KRA, etc.

Table with columns: GSC, IAmB, IAmB, 07 40 28.8. Lists stations like AFDM, QSM, WSKR, etc.



az=50.0  
 ASRS 21 08:11:04.0±1.1, 53.56N-87.70E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
ZALV	Zalesovo Beam	1.75	284	Op	08 11 39.0	+1.4
		0.5nm, 0.3s, b, az=102, slow=13, SNR=8.3				
ZALV		1.8nm, 0.3s, b, az=101, slow=21, SNR=14			08 12 04.2	
I46RU	ZALESOVO INFRA	1.75	284	I	08 22 10.0	
		0.2nm, 0.3s, b, az=100, slow=316, SNR=10				
KURBB	Kurchatov Arra	6.37	246	Lg	08 14 30.2	
		b, az=47, slow=29, SNR=2.3				
MKAR	Makanchi Array	7.61	209	Pn	08 12 59.3	+3.2
		0.1nm, 0.3s, b, az=25, slow=11, SNR=4.1				
		0.2nm, 0.4s				

IDC 21 08:16:42.6±1.8, 33.70S-179.92E, h0km, mb4.4/5, mbtmp4.4/6, ML3.9/1, MS3.5/2, Error ellipse: s-maj=48.4km s-min=25.8km az=51.0

NEIC 21 08:16:45.1±1.3, 33.33S-179.9E, h0km, mb4.3/1, Error ellipse: s-maj=25.1km s-min=9.6km az=78.0

WEL 21 08:16:46.0±0.7, 34.5S-179.9E, h12km, M4.5/12, mb5.0/3, ML4.5/14, MLv4.5/12, Mw6.4/3, Error ellipse: s-maj=9.6km s-min=6.0km az=97.7, confirmed

ISC 21 08:16:48.7±0.8, 33.73S-179.64E, h0.93h5km, n46, c1878/52, mb4.3/11, South of Kermadec Islands

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
MXZ	Matakaoa Point	3.98	195	Op	08 17 44.0	-3.1
		32nm, 0.6s				
WMGZ	Waiomatatini S	4.20	193	P	08 17 49.4	+0.8
		4.29	200	P	08 17 51.6	+0.2
HAZ	Te Kaha	4.29	200	S	08 18 45.0	+4.8
PKGZ	Pakihiroa	4.32	197	P	08 17 51.0	-0.8
					08 18 44.4	+3.5
PKGZ					08 17 57.7	+4.8
KUZ	Kuautoni	4.39	226	P	08 17 57.9	+1.6
		4.47	194	P	08 18 44.3	-0.5
PUZ	Puketiti	4.49	194	S	08 17 53.6	-1.0
RUGZ	Raukumara Rang	4.52	200	P	08 17 55.0	-1.2
		4.64	196	P	08 18 07.0	+1.6
TWZ	Tauwhareparea	4.84	242	P	08 17 57.9	-1.6
		4.88	193	P	08 18 45.0	+4.5
WZ	Waipua Caves	4.84	242	P	08 17 58.9	-1.0
		4.92	196	P	08 18 04.0	+0.4
GLKZ	Green Lake	4.92	197	P	08 17 57.7	-2.3
		4.92	196	P	08 18 58.3	+2.4
TKGZ	Te Karaka	4.96	204	P	08 17 58.7	-2.0
		4.6nm, 0.3s, b, az=23, slow=7.7, SNR=22				
URZ	Urewera	4.96	204	P	08 18 55.1	-1.7
		b, az=18, slow=20				
		32nm, 0.6s				

URZ	Urewera	4.96	204	P	08 17 59.4	-1.2
URZ					08 18 55.2	-1.7
MKAZ	Moumakai	4.97	226	P	08 18 06.6	+5.9
RAGZ	Rawiri	5.08	200	-1	08 18 02.3	-0.1
RIGZ	Rimuahu	5.19	196	P	08 18 01.8	-1.7
OUZ	Omaha	5.21	252	P	08 18 02.1	-1.9
OUZ					08 18 55.9	-3.3
TOZ	Tahuroa Road	5.22	219	P	08 18 04.0	+0.1
TOZ					08 18 04.6	+0.4
MUGZ	Murupara	5.28	205	P	08 18 04.4	-0.5
PRGZ	Paritū Road	5.37	195	S	08 18 03.8	+2.6
PRGZ					08 19 06.1	-0.8
MHGZ	Mahia Peninsula	5.59	194	P	08 18 06.1	-3.2
					08 19 13.8	+1.5
MSV	Nonsavu	15.99	355	LR	08 24 53.9	
		comp=2.00nm, 18.3s, b, az=169, slow=13, SNR=5.5				
DZM	Mot Dzumac	16.44	312	LR	08 26 15.7	
		comp=Z, 1.30nm, 18.8s, b, az=162, slow=34				
BBOO	Bucklebo	36.25	259	P	08 23 49.0	+0.5
		comp=2.6, 7nm, 0.9s				

AS31	Alice Springs	41.06	272	I	08 24 30.1	+1.1
		comp=Z, 1.7nm, 0.8s				
ASAR	Alice Springs	41.06	272	I	08 24 29.1	+0.1
		comp=Z, 5.0nm, 0.8s, b, az=115, slow=8.3, SNR=37				
WR8	Warramunga Arr	42.22	277	P	08 24 40.0	+1.4
		comp=8.2nm, 1.1s				
WRA	Warramunga Arr	42.36	277	P	08 24 40.7	+1.1
		comp=Z, 3.5nm, 0.6s, b, az=120, slow=7.8, SNR=20				
FITZ	Fitzroy Crossi	50.46	274	P	08 25 43.9	+0.6
		comp=Z, 1.3nm, 0.9s				
FITZ	Fitzroy Crossi	50.46	274	P	08 25 44.6	+1.4
		comp=Z, 3.9nm, 0.6s, b, az=138, slow=7.8, SNR=7.2				

QSPA	South Pole Qui	56.39	180	P	08 26 25.8	-0.4
		comp=Z, 3.9nm, 0.6s, b, az=117, slow=1.2, SNR=39				
SMAI	San Martin Ant	67.10	158	P	08 27 36.5	-1.6
		comp=Z, 2.6nm, 1.0s				
SNA	Sanae	74.88	179	P	08 28 23.4	-2.0
		comp=Z, 1.4nm, 1.0s, b, az=193, slow=18, SNR=3.6				
SNA	Sanae	74.88	179	P	08 28 24.0	-1.4
		comp=Z, 1.4nm, 1.0s, b, az=193, slow=18, SNR=3.6				
MAJO	Matsushiro	79.89	327	I	08 28 55.5	+1.8
		comp=Z, 5.6nm, 1.1s				
MJB9	Matsu-Tunnel	79.89	327	P	08 28 57.0	+3.3
		comp=Z, 5.9nm, 1.2s				
KULM	Kulim	83.80	281	P	08 29 15.1	+0.2
		comp=Z, 1.4nm, 1.0s, b, az=193, slow=18, SNR=3.6				
MARD	Mardin	146.51	288	PKPdf	08 36 24.2	-0.7
		comp=Z, 0.2nm, 0.5s				
FINES	FINESS Array B	147.39	337	PKPdf	08 36 26.4	+0.9
		comp=Z, 0.2nm, 0.7s, b, az=26, slow=3.3, SNR=4.7				

ASRS 21 08:26:27.0±1.1, 54.69N-83.63E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 21 08:26:29.4±1.7, 54.70N-83.84E, h0km, mbtmp2.9/3, ML2.3/3, Error ellipse: s-maj=14.7km s-min=10.0km az=12.0, Southwestern Siberia

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
I46RU	ZALESOVO INFRA	0.95	142	Op	08 26 46.6	-0.9
		3.8nm, 0.3s, b, az=323, slow=20, SNR=25				
ZALV	Zalesovo Beam	0.95	142	Pg	08 27 01.0	
		7.5nm, 0.3s, b, az=324, slow=28, SNR=16				
KURBB	Kurchatov Arra	5.21	220	Pn	08 27 49.6	+1.2
		0.1nm, 0.3s, b, az=36, slow=12, SNR=2.7				
KURBB		5.21	220	Sn	08 28 49.0	-0.2
		b, az=32, slow=21, SNR=1.5				
KURBB		5.21	220	Lg	08 29 10.5	
		0.1nm, 0.3s, b, az=42, slow=34, SNR=5.2				
MKAR	Makanchi Array	7.98	188	Pn	08 28 26.3	-0.3
		0.1nm, 0.3s, b, az=12, slow=14, SNR=2.9				
MKAR		7.98	188	Sn	08 29 57.3	-0.1
		0.1nm, 0.3s, b, az=16, slow=24, SNR=2.3				
MKAR		7.98	188	Lg	08 30 42.1	
		0.1nm, 0.3s, b, az=3.9, slow=28, SNR=6.3				
BVAR	Borovoye Array	8.13	264	Pn	08 28 27.0	-1.5
		0.8nm, 0.5s				

WEL 21 08:29:23.0±1.0, 39.39S-177.6E, h5km, M2.1/25, ML2.3/23, MLv2.1/25, Error ellipse: s-maj=3.1km s-min=2.6km az=136.5, confirmed, North Island

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Rangitukua	0.09	245	P	08 29 25.8	+0.7
		2um, 0.3s, b, az=146, slow=13, SNR=78				
RAO	Roa Island	1.76	343	Pn	08 38 08.3	-0.3
		9um, 0.3s, b, az=128, slow=20, SNR=4.3				
RAO		1.76	343	LR	08 38 14.9	
		comp=Z, 1.73um, 21.7s, b, az=137, slow=39				
RAO	Roop Island	1.76	343	P	08 37 50.1	+0.1
		comp=Z, 1.73um, 21.7s, b, az=137, slow=39				
RAO	Roop Island	1.76	343	P	08 37 44.3	-2.1
		comp=Z, 1.73um, 21.7s, b, az=137, slow=39				

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
WATZ	Wairara	0.16	317	P	08 29 26.9	+0.5
		0.18	311	P	08 29 27.4	+0.8
WATZ	Whakaora	0.17	21	P	08 29 26.8	+0.1
		0.18	111	P	08 29 29.2	+0.2
HATZ	Hinamaimaia	0.18	111	P	08 29 28.0	+0.5
		0.20	224	P	08 29 28.4	+1.3
NTVZ	North Tongarir	0.31	210	P	08 29 28.0	+0.5
		0.32	205	P	08 29 29.8	+0.5
TMVZ	Te Maari	0.32	205	P	08 29 29.4	+1.3
		0.32	205	P	08 29 30.0	+0.3
KRVZ	Karewarewara	0.32	215	P	08 29 30.8	+0.6
		0.37	214	P	08 29 30.8	+0.6
ETVZ	East Tongarir	0.33	203	P	08 29 30.0	+0.3
		0.34	353	P	08 29 30.3	+1.2
KUTZ	Kaahu Road	0.34	353	P	08 29 30.1	+0.5
WTVZ	West Tongarir	0.36	218	P	08 29 30.8	+0.6
		0.37	214	P	08 29 30.8	+0.6
NTVZ	North Ngauruho	0.37	206	P	08 29 30.0	+0.5
OTVZ	Oturere	0.37	206	P	08 29 30.8	+0.4
WPRZ	Whakapapatarir	0.38	36	P	08 29 31.5	+0.5
		0.40	207	P	08 29 31.6	+0.5
SNVZ	South Ngauruho	0.41	212	P	08 29 31.6	+0.5
		0.41	212	P	08 29 31.4	+0.2
TWVZ	Tauwhare	0.42	235	P	08 29 31.7	+0.3
		0.42	219	P	08 29 31.3	+0.1
MRHZ	Matea Rd	0.42	91	P	08 29 32.5	+0.6
		0.46	215	P	08 29 32.7	+0.5
COVZ	Chateau Observ	0.46	215	P	08 29 32.7	+0.5
		0.50	211	P	08 29 32.2	+0.5
FWVZ	Far West T-bar	0.50	211	P	08 29 33.4	+0.6
		0.51	206	P	08 29 33.4	+0.6
MAVZ	Maunatani	0.51	206	P	08 29 33.4	+0.6
		0.52	209	P	08 29 33.8	+0.3
WHVZ	Whangape Hut	0.52	209	P	08 29 33.8	+0.3
URVZ	Turoa	0.54</				



Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like MSVF Nonsavu, DSZ Denniston, and various other call signs.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like GD1S Gladstone, YLAD Young, and various other call signs.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like VVDA, WRKA Warakuru, and various other call signs.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like VVDA, WRKA Warakuru, and various other call signs.



CMB	Columbia Colle	86.78	42	P	P	08 50 00.6	+0.3
CMB	comp=Z,79nm,1.1s			IAMs_20	IAMs_20	09 28 06.7	
CMB	comp=Z,24um,18.0s						
CMB	Columbia Colle	86.78	42	P	P	08 50 00.6	+0.3
CMB	comp=Z,79nm,1.1s			pmax	pmax		
CMB	comp=Z,24um,18.0s			MLR	MLR		
HJU	Haeju	86.78	318	P	S	08 49 55.9	-0.3
HJU	comp=Z,3um,6.5s			P	SKSac	09 00 18.5	-8.2
HJU	comp=Z,964nm,9.2s			AMS	AMS		
GLA	Glamis	86.82	48	IAMs_20	IAMs_20	09 26 31.4	
HSIG	comp=Z,23um,18.0s			IAMs_20	IAMs_20	09 27 19.2	
NJ2	Nanjing	87.03	310	P	P	08 50 02.4	+0.9
NJ2	comp=Z,25nm,1.3s			sP	pwP	08 50 16.1	+4.8
NJ2	comp=Z,3um,8.4s			SS	SS	09 00 36.1	-4.2
NJ2	comp=Z,4um,18.1s			pmax	pmax	09 06 24.1	+0.1
NJ2	comp=Z,2um,18.2s			LR	LR		
NJ2	comp=Z,2um,18.2s			LR	LR		
GSC	Goldstone, Bar	87.05	45	IAMs_20	IAMs_20	09 25 06.2	
HHU	Hamhung	87.10	321	P	P	08 49 58.9	-2.8
HHU	comp=Z,19um,18.0s			S	SKSac	09 00 16.3	-1.2
HHU	comp=Z,2um,4.8s			AmB			
HHU	comp=Z,66um,33.5s			AMS	AMS		
PAYG	Puerto Ayora	87.12	89	IAMs_20	IAMs_20	09 21 34.4	
MSHR	Mys Shuitsa	87.13	325	eP	P	08 50 01.3	-0.5
MSHR	comp=Z,125nm,1.1s			pmax	pmax		
MSHR	comp=Z,7um,19.0s			MLR	MLR		
UBPT	Khong Chiam	87.14	290	P	P	08 50 04.1	+1.6
SDPT	Sand Point	87.15	10	IAMs_20	IAMs_20	09 29 22.0	
SDPT	comp=Z,19um,20.0s						
SDPT	Sand Point	87.15	10	P	P	08 50 03.2	+1.7
SDPT	comp=Z,19um,20.0s			S	S	08 50 01.0	-0.5
SDPT	comp=Z,19um,20.0s			S	S	09 00 40.7	+0.4
VLA	Vladivostok	87.17	325f	eP	P	08 50 02.3	+0.4
VLA	comp=Z,35nm,0.7s			pmax	pmax		
VLA	comp=Z,5um,19.0s			MLR	MLR		
ORV	Oroville	87.22	40	IAMs_20	IAMs_20	09 24 23.0	
S12K	Black Hills	87.28	9	P	P	08 50 02.0	-0.1
S12K	comp=Z,23um,19.0s			IAMb	IAMb	08 50 06.8	
S12K	comp=Z,98nm,0.8s			IAMs_20	IAMs_20	09 28 04.4	
S12K	comp=Z,16um,20.0s			P	P	08 50 01.8	-0.4
S12K	Black Hills	87.28	9	P	P	08 50 02.3	+0.4
S12K	comp=Z,16um,20.0s			S	S	09 00 42.2	+0.5
PSTR	Posyet	87.36	324f	eP	P	08 50 02.9	+0.1
P08K	Saint George I	87.44	4	P	P	08 50 02.4	-0.5
P08K	comp=Z,18um,18.0s			S	S	09 00 45.0	+1.9
P08K	comp=Z,18um,18.0s			S	S	09 00 45.0	+1.9
QYAM	Queen of Sheba	87.45	45	IAMs_20	IAMs_20	09 29 11.7	
PYAG	Pyongyang	87.46	319	P	P	08 50 03.5	+0.1
PYAG	comp=Z,15um,18.0s			S	SKSac	09 00 23.6	-7.3
PYAG	comp=Z,2um,6.6s			AMS	AMS		
PYAG	comp=Z,59nm,2.5s			AMS	AMS		
BLYC	Blythe	87.47	48	IAMs_20	IAMs_20	09 26 51.4	
UGL	Ulgorsk	87.50	335f	dIP	P	08 49 59.2	-4.2
UGL	comp=Z,19um,18.0s			eS	SKSac	09 00 24.0	-6.6
UGL	comp=Z,3um,9.3s			pmax	pmax		
UGL	comp=Z,100nm,0.8s			smax	smax		
UGL	comp=Z,100nm,0.8s			smax	smax		
UGL	comp=N,3um,11.0s			smax	smax		
UGL	comp=E,5um,11.0s			MLR	MLR		
UGL	comp=N,6um,19.0s			MLR	MLR		
UGL	comp=E,5um,19.0s			MLR	MLR		
UGL	comp=Z,5um,20.0s			MLR	MLR		
WAKR	Walker	87.65	42	IAMs_20	IAMs_20	09 21 54.6	
WAKR	comp=Z,24um,20.0s			IAMs_20	IAMs_20	09 21 54.6	
KBO	Bosley Butte	87.67	36	P	P	08 50 05.9	+1.4
GWY	Greenwater Val	87.72	45	IAMs_20	IAMs_20	09 29 28.8	
GWY	comp=Z,16um,18.0s			IAMs_20	IAMs_20	09 24 41.9	
DSP	Deep Springs	87.73	43	IAMs_20	IAMs_20	09 24 41.9	
M02C	Callahan	87.79	38	IAMs_20	IAMs_20	09 21 27.9	
GRAC	Grapevine Rang	87.84	44	IAMs_20	IAMs_20	09 29 24.9	
MPK	Martis Peak	87.85	41	P	P	08 50 06.4	+0.7
USA0B	Ussuriysk Arra	87.92	326	IAMb	IAMb	08 50 05.0	-0.6
USA0B	comp=Z,52nm,0.8s			P	P	08 50 05.0	-0.6
USA0B	Ussuriysk Arra	87.92	326	P	P	08 50 05.0	-0.6
USA0B	comp=Z,52nm,0.8s			pmax	pmax		
USRK	Ussuriysk Ar.	87.92	326	P	P	08 50 05.1	-0.4
USRK	Ussuriysk Ar.	87.92	326	P	P	08 50 05.3	-0.3
USRK	comp=Z,53nm,0.8s, baz=139, slow=3.2, SNR=41			LR	LR	09 23 16.8	
USRK	comp=Z,5um,21.5s, baz=144, slow=3.2						
L02F	Cave Junction	87.94	37	IAMs_20	IAMs_20	09 25 09.8	
SP1A	Saint Paul Isl	87.97	4	P	P	08 50 05.3	-0.2
SP1A	comp=Z,10um,19.0s			S	S	09 00 50.8	+2.6
SP1A	comp=Z,10um,19.0s			S	S	09 00 50.8	+2.6
GMN	Gold Mountain	88.10	44	P	P	08 50 06.4	-0.5
YBH	Yreka Blue Hor	88.11	38	IAMs_20	IAMs_20	09 25 18.4	
YBH	comp=Z,16um,20.0s			P	P	08 50 07.1	+0.5
YBH	comp=Z,1.0nm,0.6s, baz=221, slow=4.2, SNR=12			LR	LR	09 25 38.8	
S14K	Fog Glacier	88.19	10	P	P	08 50 06.3	-0.4
S14K	comp=Z,1um,18.3s, baz=243, slow=3.3			S	S	09 00 53.5	+3.0
LCO	Las Campanas	88.20	123	P	P	08 50 07.8	0.0
LCO	comp=Z,85nm,1.4s			IAMb	IAMb	08 50 11.5	
LCO	Las Campanas	88.20	123	P	P	08 50 07.8	0.0
LCO	comp=Z,85nm,1.4s			pmax	pmax		
NVAR	Mina Array Bea	88.25	42	P	P	08 50 07.6	0.0
NVAR	Mina Array Bea	88.25	42	P	P	08 50 07.7	+0.1
NVAR	comp=Z,30nm,0.8s, baz=252, slow=5.0, SNR=63			PKPPKP	P/Pdf	09 16 00.5	+5.1
NVAR	comp=Z,0.5nm,0.5s, baz=33, slow=1.8, SNR=4.3			LR	LR	09 24 34.2	
NVAR	comp=Z,22um,18.9s, baz=232, slow=3.2						
NVAR	comp=Z,30nm,0.8s						
RYN	Ryan	88.25	42	IAMs_20	IAMs_20	09 24 48.8	
K02D	Willamette Mer	88.30	36	IAMs_20	IAMs_20	09 21 39.5	
CHGN	Chignik	88.38	10	S	S	09 00 55.2	+3.2
CHGN	comp=Z,19um,18.0s						

CHIR	Chirikof Islan	88.39	12	P	P	08 50 07.0	-0.5
CHIR	comp=Z,19um,18.0s			S	S	09 00 54.8	+2.7
CFA	Coronel Fontan	88.46	126	LR	LR	09 23 55.4	
SRIT	Nakonsritamara	88.47	281	P	P	08 50 09.7	+0.8
TPNV	Topopah Spring	88.47	45	IAMs_20	IAMs_20	09 30 20.8	
J01E	Nyrtie Point	88.50	36	IAMs_20	IAMs_20	09 25 35.8	
TRQA	Tornquist	88.65	134	P	P	08 50 09.6	+0.1
TRQA	comp=Z,66nm,1.4s			IAMb	IAMb	08 50 14.2	
TRQA	Tornquist	88.65	134	P	P	08 50 09.6	+0.1
TRQA	comp=Z,66nm,1.5s			pmax	pmax		
L04D	Klamath Falls	88.66	38	IAMs_20	IAMs_20	09 30 59.1	
MOIG	Morelia	88.70	66	IAMs_20	IAMs_20	09 23 20.6	
MOIG	comp=Z,16um,19.0s						
CNSH	ChangSha	88.72	304	P	P	08 50 09.3	-0.4
CNSH	comp=Z,12nm,1.4s			S	SKSac	09 00 45.0	+6.0
CNSH	comp=Z,12nm,1.4s			LR	LR		
CNSH	comp=Z,3um,18.0s			LR	LR		
CNSH	comp=Z,1um,17.3s			LR	LR		
CNSH	comp=Z,1um,17.3s			LR	LR		
W13A	Hualapai Mount	88.73	47	IAMs_20	IAMs_20	09 27 39.8	
TYV	Tymnovskoe	88.78	336	eP	P	08 50 11.1	+1.7
TYV	comp=Z,700nm,3.6s			eS	S	09 00 55.8	-0.3
TYV	comp=Z,53nm,0.8s			pmax	pmax		
TYV	comp=N,9.0nm,2.2s			smax	smax		
TYV	comp=E,12nm,2.2s			smax	smax		
TYV	comp=N,1um,4.9s			smax	smax		
SUJ	Sinuiju	88.89	319	P	P	08 50 08.9	-1.3
SUJ	comp=E,2um,4.9s			AmB			
GULI	Gullin	88.90	300	P	P	08 50 12.4	+1.7
GULI	comp=Z,2um,4.7s			S	SKSac	09 00 46.8	+6.6
GULI	comp=Z,20nm,1.2s			pmax	pmax		
GULI	comp=Z,2um,22.2s			LR	LR		
GULI	comp=Z,3um,20.1s			LR	LR		
TULE	Intermountain	88.92	38	IAMs_20	IAMs_20	09 26 07.0	
LHMI	Lhok Sumawe	88.99	277	IAMs_20	IAMs_20	09 32 26.9	
TUC	Tucson	89.00	51	P	P	08 50 11.7	+0.6
TUC	comp=Z,181nm,1.6s			IAMb	IAMb	08 50 25.7	
TUC	Tucson	89.00	51	IAMs_20	IAMs_20	09 29 10.3	
TUC	comp=Z,17um,18.0s			P	P	08 50 11.7	+0.6
TUC	comp=Z,181nm,1.6s			pmax	pmax		
TUC	comp=Z,17um,18.0s			MLR	MLR		
WHN	Wuhan	89.13	307	P	P	08 50 10.3	-1.3
WHN	comp=Z,5um,8.4s			sP	pwP	08 50 18.8	-2.5
WHN	comp=Z,7um,17.5s			S	SKSac	09 00 46.8	+5.5
WHN	comp=Z,4um,11.9s			LR	LR		
WHN	comp=Z,14um,19.2s			LR	LR		
I03D	Drain, OR	89.18	36	IAMs_20	IAMs_20	09 22 28.8	
S11A	Rachel	89.23	44	IAMs_20	IAMs_20	09 30 37.8	
S11A	comp=Z,20um,18.0s			IAMs_20	IAMs_20	09 26 05.4	
K04B	Chiloquin, OR	89.24	38	IAMs_20	IAMs_20	09 26 05.4	
ZAIG	Zacatecas	89.34	63	IAMs_20	IAMs_20	09 25 55.5	
ZAIG	comp=Z,2um,18.0s			comp=Z,16um,19.0s			
SII	Sitkinak Islan	89.35	13	P	P	08 50 11.3	-0.7
SII	comp=Z,14um,20.0s			baz=200			
SII	Sitkinak Islan	89.35	13	P	P	08 50 11.3	-0.7
SII	comp=Z,7um,19.5s			S	S	09 01 08.0	+6.7
MDJ	Mudanjiang	89.39	325	P	P	08 50 12.3	-0.2
MDJ	comp=Z,3um,8.9s			sP	pwP	08 50 23.3	+1.1
MDJ	comp=Z,4um,20.6s			P	P	09 01 01.4	-0.8
MDJ	comp=Z,4um,20.6s			pmax	pmax		
MDJ	comp=Z,3um,8.9s			LR	LR		
MDJ	comp=Z,4um,20.6s			LR	LR		
MDJ	comp=Z,5um,17.9s			LR	LR		
J04A	Umpqua Nationa	89.49	37	IAMs_20	IAMs_20	09 26 21.1	
PRN	Pahroc Range	89.50	45	IAMs_20	IAMs_20	09 30 46.0	
TLIG	Tiapa	89.64	69	IAMs_20	IAMs_20	09 26 45.0	
BUCK	Buck Mountain	89.72	36	IAMs_20	IAMs_20	09 22 36.2	
R16K	Pilot Point	89.72	10	P	P	08 50 12.3	-1.3
DL2	Dalian	89.73	317f	iP	P	08 50 12.3	-1.9
DL2	comp=Z,66nm,0.8s			SKS	SKSac	09 00 44.8	+0.4
DL2	comp=Z,66nm,0.8s			S	S	09 01 03.8	-1.8
DL2	comp=Z,3um,9.3s			pmax	pmax		
DL2	comp=Z,3um,19.9s			LR	LR		
DL2	comp=Z,5um,21.6s			LR	LR		
DL2	comp=Z,8um,27.0s			LR	LR		
X16A	Lo Mia Camp, P						



Table with columns for station ID, name, elevation, frequency, and other parameters. Includes stations like L20K, PMR Palmer, WRAK Wrangell Islan, etc.

Table with columns for station ID, name, elevation, frequency, and other parameters. Includes stations like P29M Windy Craggy, DLMT Dilton, H16K Elim, etc.

Table with columns for station ID, name, elevation, frequency, and other parameters. Includes stations like S34M baz=219, Q24A Divide, SEY Seychman, etc.

21d 8h

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Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like JTS, M27K, BWN, MENT, DLBC, LPAZ, H19K, BVCY, G18K, WHY, K24K, H20K, N30M, BOAB, RLMT, OTAV, NEA2, TNCH, TNCH, TNCH, RIDG, RIDG, R33M, R33M, WRH, WRH, BTO, BTO, BTO, BTO, F17K, L27K, L27K, MLY, MLY, MLY, BOAR, P33M, P33M, HDA, HDA, G19K, G19K, CCB, N31M.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like N31M, H21K, M29M, M29M, F18K, F18K, SCRK, SCRK, I23K, I23K, COLA, COLA, COLA, COLA, COLA, COLA, HKT, HKT, KSCO, IMAR, ILAR, ILAR, ILAR, ILAR, ILAR, ILAR, E17K, E17K, J25K, J25K, J25K, POKR, POKR, POKR, N32M, N32M, H22K, H22K, F19K, F19K, F19K, WMOK, K27K, K27K, K27K, J26L, J26L, L29M, L29M, L29M, H23K, H23K, H23K, G21K, G21K, G21K, E18K, E18K, D17K, D17K, M31M, M31M, F20K, F20K, WTLY, H24K, H24K, CPUP, CPUP, CPUP, PRP, PRP, E19K, E19K, E19K, RDOG, RDOG, RDOG, DAWY, C16K, C16K, FARO, TOAD.

Table with columns for station ID, name, frequency, power, and other technical details. Includes stations like BILL, BILL, BILL, LIRD, LZH, LZH, LZH, F21K, F21K, G22K, G22K, I26K, I26K, G23K, G23K, K29M, K29M, C17K, C17K, MAYO, H25L, J29N, J29N, G24K, G24K, F22K, F22K, COLD, COLD, C18K, C18K, OK029, I27K, E20K, D19K, D19K, FYU, MPMY, G25K, TGTN, I28M, I28M, LAO, BEAVL, J30M, J30M, J30M, D20K, D20K, E21K, E21K, E22K, E22K, C19K, F24K, F24K, I29M, I29M, 441A, B18K, H27K, H27K, KOTAN, E23K, E23K, G26K, G26K, I30M, I30M, E24K, E24K, BCIP, F25K, F25K, F25K, G27K, G27K, C21K, D22K, D22K, IMP, H29M, H29M, H29M, TOLK, F26K, F26K, F26K, D23K, D23K, A19K.









21d 8h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Haha-jima-NKT2, Chichijima, Mitsune, Boso, Ashikaga, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like Wainwright, Shaluckick Mo, Lookout Ridge, Purcell Moun, etc.

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Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Residual. Includes stations like HARP HAARP, Porcupine Dome, Salcha River, Kavik River, etc.



21d 9h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Combarbal, Nanjing, Greenwater Val, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Combarbal, Nanjing, Greenwater Val, etc.

2019 JUN

Main table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like YKA, ILAR, RAO, URZ, STKA, ASAR, WRA, FINES, etc.

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Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ASRS 21 08:57:51.0, 1.0, 53:60N, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for ZALV Zalesovo Beam, KURBB Kurchatov Arra, MKAR Makanchi Array, etc.

WEL 21 09:11:35.11.6.34'S:10°18'0"E:1.5, h12km, M4.2/10, mb4.7/4, ML4.5/15, MLV4.3/10, Mw(mb)3.9/4, Error ellipse: s-maj=19.7km s-min=12.6km az=71.2, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for WMWG Waomatatini S, HAZ Te Kaha, PKGZ Pakihiroa, etc.

GCG 21 09:11:55.3:0.3, 13.29N:90.46W, h33km, 10km, MD4.0, ML3.1, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for NUBE Las Nubes, JAVA Jayaque - finc, STGO El Palmer, Qui, etc.

IDC 21 09:13:55.9:1.8.33.67'S:180.00'E, h0km, mb4.5/4, mbmp4.5/5, ML4.0/11, Error ellipse: s-maj=47.9km s-min=27.2km az=53.0

NEIC 21 09:13:58.6:0.9.33.69'S:0.10:180.0W:0.2, h10km, 1km, mb4.6/8, Error ellipse: s-maj=24.3km s-min=14.5km az=293.0

WEL 21 09:14:00.2:1.6.34'S:11°18'0"E:1.0, h12km, M4.8/10, ML4.8/13, MLV4.8/10, Error ellipse: s-maj=15.7km s-min=9.9km az=38.4, confirmed

ISC 21 09:14:01.7:0.9.33.69'S:0.08:179.69E:0.09, h35km, n43, s162/40, mb4.5/9, 3.0, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for MXZ Matakaoa Point, WMWG Waomatatini S, HAZ Te Kaha, etc.

WRS Warramunga Arr 42.27 277 Iamb Iamb P 09 21 53.4 +1.4

WRA Warramunga Arr 42.41 277 P P 09 21 53.7 +0.6

WB0 Warramunga Arr 42.44 277 P P 09 21 55.2 +1.8

KNRA Kununurra 49.12 278 P P 09 22 48.3 +2.1

QSPA South Pole Qui 56.43 180 P P 09 23 40.5 +0.8

QSPA South Pole Qui 56.43 180 P P 09 23 40.2 +0.6

SNA4 Snae 74.92 179 P P 09 25 38.0 -0.6

SNA4 Snae 74.92 179 P P 09 25 38.2 -0.5

SNA4 Snae 74.92 179 P P 09 25 37.2 -1.5

UNA3 Neumayer Olym 75.15 177 P P 09 25 39.4 -0.6

UNA2 Neumayer-Watz 75.58 178 P P 09 25 41.6 -0.7

H03S2 Juan Fernandez 80.27 124 T T 10 54 20.6

H03S1 Juan Fernandez 80.28 124 T T 10 54 21.6

H03S3 Juan Fernandez 80.29 124 T T 10 54 19.5

IDC 21 09:17:23.4:5.6.30.14S:177.66W, h0km, mb3.7/3, mbtmp3.7/3, Error ellipse: s-maj=215.3km s-min=52.9km az=150.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for STKA Stephens Creek, ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B, etc.

IDC 21 09:25:46.7:9.0.30.43'S:177.54W, h0km, mb3.4/2, mbtmp3.4/2, Error ellipse: s-maj=388.2km s-min=58.3km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B, etc.

IDC 21 09:28:21.9:3.3.6.65'S:145.73E, h126km, 30km, mb3.6/4, mbtmp3.8/6, Error ellipse: s-maj=43.8km s-min=29.0km az=57.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for PMG Port Moresby, WRA Warramunga Arr, ASAR Alice Springs, FITZ Fitzroy Crossi, STKA Stephens Creek, CMAR Chiang Mai Arr, GSPA South Pole Qui, etc.

NOU 21 09:28:48.3.38.64'S:175.75E, h175km, MLV3.6/14, North Island, New Zealand

WEL 21 09:28:51.1:1.1.39.58'S:177.6E:1.1, h154km, 7km, M3.0/49, ML2.4/16, MLV3.0/49, Error ellipse: s-maj=11.0km s-min=8.7km az=151.7, confirmed

ISC 21 09:28:44.4:1.2.38.53'S:0.04:175.76E:0.05, h202km, 7km, n141, s29/20/150, North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for KUTZ Kaahu Road, WATZ Wairara, TLZ Tolley Road, WPRZ Whakapapatarin, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for KUZ Kuaotunu, MHGZ Mahia Peninsula, DMVZ Dannevirke, etc.

IDC 21 09:30:48.5:2.9.30.84'S:177.75W, h0km, mb3.4/2, mbtmp3.6/3, ML3.1/1.1, Error ellipse: s-maj=67.3km s-min=23.9km az=107.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for RAO Raoul Island, URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B, etc.

IDC 21 09:35:09.2:3.5.55.50'N:86.32E, h0km, mbtmp2.6/2, ML2.3/2, Error ellipse: s-maj=29.0km s-min=27.4km az=163.0

ASRS 21 09:35:04.1:0.5.55.60'N:86.22E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, KURBB Kurchatov Arra, etc.

ASRS 21 09:35:21.0:1.6.53.74'N:91.05E, h0km, M2.9, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 21 09:35:29.7:3.2.53.53'N:90.58E, h0km, mbtmp3.0/3, ML2.9/2, Error ellipse: s-maj=27.1km s-min=21.2km az=61.0

ISC 21 09:35:32.6:4.5.53.55'N:0.1:29.3E:0.3, h0km, n4, s0979/6, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, KURBB Kurchatov Arra, etc.

IDC 21 09:37:10.5:3.5.30.12'S:177.50W, h0km, mb3.5/2, mbtmp3.5/2, Error ellipse: s-maj=70.6km s-min=32.7km az=102.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes entries for RAO Raoul Island, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like WRA Warrungama Arr, FINES FINES Array B, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like WRA Warrungama Arr, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like WRA Warrungama Arr, ASAR Alice Springs, CMAR Chiang Mai Arr, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like CROK Carrier, GC02 Grant County #, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like OK052 Battle Ridge R, KAN09 Caldwell North, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like CSTR Hydro, Custer, FNO Franklin, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like DEOK Depew, T35A Sooner Center, ELIS Ellis County, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ABTX Abilene, Hawle, RTBA Rita Blanca, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like MSTM Muleshoe, R40A Maddies Statio, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like RAO Raoul Island, RAO Raoul Island, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like STKA Stephens Creek, BBOO Buckleboe, AS31 Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like FIA1 FINES Array S, FINES FINES Array B, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like NZBK Nazarek, CHMG Chimgan, CHRV Charvak, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ARKS Arkan, BRLS Boroday, BRLS Boroday, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like AML Almayashu, ARLS Aral, AAK Ala-Archa, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like RABL Rabaul, MANU Manus Island, PMG Port Moresby, etc.

ASRS 21 09:54:52.0±0.6, 36°31'N; 106°08'77.73W±0.01, h5km, 1km, mb L2.9/55, ML3.1/59, ML2.9/36, Error ellipse: s-maj=2.6km s-min=1.4km az=37.0

NEIC 21 09:59:36.0±0.7, 36°31'N; 106°09'97.735W±0.007, h8km, 4km, Error ellipse: s-maj=1.4km s-min=0.8km az=186.0, Oklahoma

ASRS 21 09:50:12.0±1.1, 54°22'N; 87°25'E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

NEIC 21 10:04:26.0±1.1, 30°80'S; 177°57'W, h0km, mb3.9, 5, mbtmp3.9/5, Error ellipse: s-maj=30.9km s-min=22.2km az=96.0

NEIC 21 10:04:28.0±1.5, 30°68'S; 177°7'W±0.2, h10km, 1km, mb4.3/7, Error ellipse: s-maj=29.7km s-min=10.0km az=249.0

ISC 21 10:04:32.2±1.0, 30°80'S; 177°8'W±0.2, h46km, n19, s187/23, mb4.1/9, Kermadec Islands

SOME 21 10:07:48.8, 40°72'N; 69°60'E, h5km, NNC 21 10:07:50.7±1.7, 40°79'N; 69°66'E, h0km, mb3.5, mpv3.3, Error ellipse: s-maj=12.3km s-min=6.7km az=34.0, Suspected Mining explosion.

KRNET 21 10:07:51.8±0.1, 40°79'N; 69°66'E, h22km, mb3.3, ISU 21 10:07:53.40°90'N; 69°68'E, h5km, ISC 21 10:07:51.1±1.1, 40°84'N; 69°53'E±0.05, h0km, n27, s149/44, 13C-15D, Tajikistan

NEIC 21 10:14:32.5±1.6, 5°38'S; 151°98'E±0.08, h51km, 5km, mb4.7/11.8, Error ellipse: s-maj=12.3km s-min=7.7km az=113.0

ISC 21 10:14:34.0±0.6, 5°35'S; 151°82'E, h66km, 4km, mb4.3/22, mbtmp4.6/25, MS4.3/7, Error ellipse: s-maj=14.7km s-min=9.4km az=97.0

DJA 21 10:14:42.0±0.7, 6°S; 4°15'E±0.1, h127km, 8km, M4.7/18, mb7/18, mb5.2/22, Mw(mb)4.5

ISC 21 10:14:32.0±0.4, 5°35'S; 151°92'E±0.06, h45km, n355, s139/339, mb4.7/8, MS4.3/6, 2C, New Britain region

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EIDS	Eidsvold	19.91 182	I	Amb	P	10 18 57.9	-2.1
GUMO	Guam	20.09 340	P	P	P	10 19 01.9	0.0
GUMO	Guam	20.09 340	P	P	P	10 19 02.4	+0.5
GUMO	comp=Z,189nm,1.0s,baz=168,slow=8.3,SNR=5.6		LR	LR		10 26 33.5	
SWI	Mont Dzumac	21.10 282	P	P	P	10 19 15.8	+2.8
DZM	Mont Dzumac	21.76 141	P	I	Amb	10 19 19.4	-0.7
DZM	Mont Dzumac	21.76 141	P	I	Amb	10 19 22.9	
MTN	Manton Dam	21.82 249	P	P	P	10 19 21.4	+0.7
MTN	comp=Z,27nm,0.8s		I	Amb	I	10 19 34.5	
ONTNC	Ouen Toro	21.94 142	P	P	P	10 19 21.6	-0.3
ONTNC	comp=Z,32nm,1.1s		I	Amb	I	10 19 53.7	
WB0	Warramunga Arr	22.27 228	P	P	P	10 19 25.0	-0.5
WR8	Warramunga Arr	22.31 228	P	P	P	10 19 25.8	-0.1
WR8	comp=Z,27nm,0.8s		I	Amb	I	10 19 27.8	
WRAB	Tennant Creek	22.41 228	P	P	P	10 19 26.6	-0.3
WRAB	comp=Z,26nm,0.8s		I	Amb	I	10 19 28.7	
WRA	Warramunga Arr	22.42 228	P	P	P	10 19 25.4	-1.7
WRA	Warramunga Arr	22.42 228	P	P	P	10 19 26.4	-0.7
WRA	comp=Z,22nm,0.7s,baz=52,slow=10,SNR=76		ScP	ScP		10 26 53.2	-2.6
WRA	comp=Z,9.2nm,1.1s,baz=52,slow=2.5,SNR=18		LR	LR		10 27 13.6	
WRA	comp=Z,706nm,21.6s,baz=288,slow=34						
PINC	Pines Island	22.79 140	P	P	P	10 19 29.7	-1.2
AAI	Ambon	23.71 273	P	P	P	10 19 42.2	+2.1
NLAI	Namlea	24.84 274	P	P	P	10 19 52.1	+1.7
ARMA	Armidade	24.93 181	P	I	Amb	10 19 49.5	-1.7
ARMA	comp=Z,46nm,0.9s		I	Amb	I	10 20 05.4	
KNRA	Kunurra	24.94 244	P	I	Amb	10 20 50.3	-1.0
KNRA	comp=Z,29nm,1.1s		I	Amb	I	10 20 15.2	
AS31	Alice Springs	25.15 222	P	P	P	10 19 53.3	+0.1
ASAR	Alice Springs	25.15 222	P	P	P	10 19 52.9	-0.3
ASAR	comp=Z,46nm,0.8s,baz=55,slow=7.8,SNR=120		pP	pP		10 20 07.5	+2.4
ASAR	comp=Z,27nm,0.8s,baz=58,slow=8.6,SNR=11		ScP	ScP		10 27 00.1	-2.1
ASAR	comp=Z,3.2nm,0.9s,baz=44,slow=9.2,SNR=16						
SOEI	Soe	27.75 259	P	P	P	10 20 16.4	-0.5
STKA	Stephens Creek	28.10 199	P	P	P	10 20 19.5	-0.1
STKA	comp=Z,2.6nm,0.6s,baz=24,slow=13,SNR=6.0					10 20 34.3	+0.1
STKA	comp=Z,3.9nm,0.8s,baz=21,slow=13,SNR=2.4		LR	LR		10 33 02.9	
STKA	comp=Z,857nm,18.4s,baz=13,slow=40						
FATZ	Fitzroy Crossi	28.62 242	P	P	P	10 20 32.3	-1.1
DIV	Davao City (W)	29.04 295	LR	LR	LR	10 31 46.7	
DIV	comp=Z,576nm,18.4s,baz=50,slow=36						
BBOO	Buckleboo	31.06 206	P	I	Amb	10 20 45.7	-0.2
BBOO	comp=Z,23nm,1.4s		I	Amb	I	10 21 03.5	
FORT	Forrest	33.80 219	P	P	P	10 21 09.2	-0.8
JMN	Monobe	42.47 338	P	I	Amb	10 22 23.5	+0.7
JNU	Nakatsue	43.17 334	I	Amb	I	10 22 31.9	
MIAR	Matsushiro Arr	43.62 344	P	P	P	10 22 30.6	-1.4
MIAR	comp=Z,7.3nm,1.0s,baz=167,slow=7.7,SNR=12		pP	sP		10 22 47.8	-2.1
MAJO	Matsushiro	43.62 344	P	P	P	10 22 30.8	-1.3
MJB9	Matsu-Tunnel	43.62 344	P	P	P	10 22 31.6	-0.5
JSD	Sado	45.01 345	I	Amb	I	10 22 44.7	
DLV	Lat	46.49 292	P	P	P	10 22 56.2	+0.7
KSRS	Korea Array	48.11 334	P	P	P	10 23 07.5	+0.1
KSRS	comp=Z,1.3nm,0.6s,baz=152,slow=6.8,SNR=9.0						
NJ2	Nanjing	48.74 322	eP	P	P	10 23 14.0	+1.6
NJ2	comp=Z,9.0nm,1.5s						
BKNI	Bangkinang	51.12 275	P	P	P	10 23 29.5	-1.3
USRK	Ussuriysk Arr	52.50 342	P	P	P	10 23 41.0	+0.5
USRK	Ussuriysk Arr	52.50 342	P	P	P	10 23 41.0	+0.5
USRK	comp=Z,4.7nm,0.8s,baz=175,slow=9.0,SNR=15		pP	sP		10 23 57.6	-1.4
ENH	Enshi	53.90 314	P	P	P	10 23 51.2	0.0
SRIT	Nankasritamara	53.98 285	P	P	P	10 23 51.1	-0.9
HNS	HongShan	54.88 324	↑P	P	P	10 23 59.4	+1.4
HNS	comp=Z,10.0nm,0.9s						
BNX	BinXian	55.38 339	↑P	P	P	10 24 01.8	+0.3
BNX	comp=Z,10.0nm,1.0s						
CMAR	Chiang Mai Arr	57.33 296	P	P	P	10 24 15.7	-0.2
CMAR	Chiang Mai Arr	57.33 296	P	P	P	10 24 15.6	-0.3
CMAR	comp=Z,2.2nm,0.3s,baz=118,slow=5.3,SNR=19						
CHTO	Chiang Mai	57.44 296	P	I	Amb	10 24 16.5	-0.3
CHTO	comp=Z,9.0nm,1.2s		I	Amb	I	10 24 18.4	
PZH	PanZhiHua	57.98 306	P	P	P	10 24 22.8	+2.2
PETK	Petrovavlovsk	58.45 4	P	P	P	10 24 23.5	+0.3
PETK	comp=Z,2.9nm,0.8s,baz=168,slow=7.6,SNR=8.4		pP	sP		10 24 40.3	-1.2
PETK	comp=Z,1.2nm,0.6s,baz=163,slow=5.7,SNR=3.0						
XLT	XiLinHaoTe	58.71 330	eP	P	P	10 24 26.5	+1.2
XLT	comp=Z,1.1nm,0.6s		pP	pP		10 24 39.3	+0.9
XLT	comp=Z,1.1nm,0.6s		pP	sP		10 24 47.1	+3.4
XLT	comp=Z,1.3nm,0.9s		PcP	PcP		10 25 16.1	+1.3
HHC	Hu-hao-haoTe	59.00 325	eP	P	P	10 24 29.1	+1.8
HHC	comp=Z,10.0nm,0.7s						
HHC	comp=Z,93nm,4.9s						
HEH	HeiHe	59.31 342	eP	P	P	10 24 29.3	+0.1
HEH	comp=Z,6.0nm,0.9s						
LZH	Lanzhou	61.03 316	eP	sP	P	10 24 43.8	+2.4
LZH	comp=Z,15nm,1.0s		pP	pP		10 25 06.0	+6.0
ADK	Adak	63.00 21	P	I	Amb	10 24 53.5	-0.6
ADK	comp=Z,7.9nm,1.2s		I	Amb	I	10 24 56.7	
SOMM	Songino Array	66.33 328	P	I	Amb	10 25 16.0	-0.2
SOMM	comp=Z,4.5nm,0.7s		I	Amb	I	10 25 19.5	
SOMM	Songino Array	66.33 328	P	P	P	10 25 15.5	-0.7
SOMM	comp=Z,4.1nm,0.6s,baz=141,slow=6.5,SNR=13						
SOMM	comp=Z,1.4nm,0.6s,baz=154,slow=2.7,SNR=2.4						
NIKH	Nikolski High	66.89 25	P	P	P	10 25 18.5	-0.9
CASY	Casey	67.22 197	P	I	Amb	10 25 21.9	+0.5
CASY	comp=Z,11nm,1.2s		I	Amb	I	10 25 22.6	
EVN	Everest	70.88 302	P	P	P	10 25 43.9	-1.6
VNDA	Vanda	72.31 178	P	P	P	10 25 53.2	+0.8
VNDA	Vanda	72.31 178	P	P	P	10 25 52.9	+0.4
VNDA	comp=Z,3.3nm,0.8s,baz=315,slow=6.1,SNR=15		pP	sP		10 26 11.1	+1.0
VNDA	comp=Z,1.8nm,0.8s,baz=349,slow=5.6,SNR=3.4						
O14K	Tigyukauvet M	74.31 23	P	P	P	10 26 05.3	+0.8
CHIR	Chirikof Islan	74.59 28	P	P	P	10 26 07.0	+0.8
N14K	Kuskokwak Cree	74.59 22	P	P	P	10 26 07.1	+1.1
R16K	Pilot Point	74.75 26	P	P	P	10 26 07.3	+0.3
R16K	comp=Z,2.9nm,0.8s,baz=114,slow=5.9,SNR=14		pP	pP		10 26 53.8	+2.6

O15K	Ungalikthiuk R	74.82 23	P	P	P	10 26 08.4	+1.0
K13K	Kusilvak Mount	74.92 20	P	P	P	10 26 09.2	+1.2
M14K	Bethel	75.04 21	P	P	P	10 26 09.7	+1.1
L14K	Kuka Creek	75.18 21	I	Amb	I	10 26 13.4	
L14K	Kuka Creek	75.18 21	P	P	P	10 26 10.1	+0.7
N15K	Kwethluk River	75.26 23	P	P	P	10 26 11.5	+1.0
M15K	Kasigluk River	75.47 22	P	P	P	10 26 12.0	+0.8
WMQ	Urumqi	75.56 318	eP	LR	LR	10 26 14.4	+2.2
WMQ	comp=N,690nm,20.7s						
WMQ	comp=E,660nm,19.7s		LR	LR	LR	10 26 14.6	+1.6
WMQ	comp=Z,420nm,18.7s		LR	LR	LR	10 26 14.8	+1.6
O16K	Kokwok River B	75.78 24	P	P	P	10 26 14.8	+1.6
L15K	Ungalak Mounta	75.83 21	P	P	P	10 26 14.8	+1.6
J14K	Nanvaranak Lak	75.86 19	P	P	P	10 26 14.6	+1.4
Q17K	Coitett Creek	75.89 26	P	P	P	10 26 14.4	+0.6
N16K	Nishilik Lake	76.06 23	P	P	P	10 26 15.6	+1.0
P17K	Katuk	76.11 27	P	P	P	10 26 16.1	+1.2
P17K	Kvichak River	76.21 25	P	P	P	10 26 16.6	+1.3
K15K	Wolf Creek Mou	76.23 20	P	P	P	10 26 17.2	+1.7
O17K	Koiganek Bris	76.29 24	P	P	P	10 26 17.2	+1.4
M16K	Timber Creek	76.33 22	P	I	Amb	10 26 14.8	-1.3
M16K	comp=Z,7.2nm,0.8s		I	Amb	I	10 26 19.9	
M16K	Timber Creek	76.33 22	P	P	P	10 26 17.6	+1.5
OHAK	Old Harbor	76.45 27	P	P	P	10 26 17.2	+0.5
Q18K	Katmai Hardscr	76.49 25	P	P	P	10 26 18.1	+0.9
ANM	Nome	76.57 18	P	P	P	10 26 19.3	+1.9
L16K	Owhat River	76.58 22	P	P	P	10 26 18.4	+0.9
N17K	Nushagak Hills	76.71 23	P	P	P	10 26 19.7	+1.5
P18K	Big Raintain, A	76.83 25	P	P	P	10 26 19.5	+0.6
F14K	Arctic Creek	76.95 17	P	P	P	10 26 20.7	+1.2
KDAD	Kodiak Island	77.07 27	P	P	P	10 26 21.3	+1.0
O18K	Koktuk Hills	77.10 24	P	P	P	10 26 21.0	+0.5
M17K	Holtina River	77.15 22	P	P	P	10 26 21.8	+1.2
J16K	Anvik River	77.21 20	P	P	P	10 26 21.9	+0.9
Q19K	Cape Douglas,	77.23 26	P	P	P	10 26 21.8	+0.6
G15K	Niukluk	77.28 18	P	P	P	10 26 22.7	+1.4
L17K	Donlin	77.28 22	P	P	P	10 26 22.5	+1.1
N18K	Kilaik Creek	77.31 23	P	P	P	10 26 23.1	+1.5
I17K	Unalakleet	77.58 19	P	P	P	10 26 24.6	+1.6
H16K	Eliny	77.59 18	P	P	P	10 26 24.2	+1.2
Q20K	Shuyak Island	77.60 26	P	P	P	10 26 24.1	+0.8
F15K	North Star Dit	77.61 17	P	P	P	10 26 24.5	+1.3
K17K	Iditarod	77.65 21	P	P	P	10 26 24.5	+1.1

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10 28 55.6, LEM, Lembar, 1.83, 324, P, Pn, 10 27 58.6 +1.7, CNJI, Cibinong, 1.85, 303, P, Pn, 10 27 57.5 +0.5, UGM, Wanagama, 1.85, 77, S, Sn, 10 27 56.9 -0.2, UGM, Wanagama, 1.85, 77, S, Sn, 10 28 18.9 -0.9, UGM, Wanagama, 1.85, 77, S, Sn, 10 27 57.0 0.0, UGM, Wanagama, 1.85, 77, S, Sn, 10 28 19.0 -0.8, SMRI, Semarang, 1.85, 77, S, Sn, 10 28 19.0 -0.8, SMRI, Semarang, 2.15, 94, S, Sn, 10 28 26.9 +2.9, SMRI, Semarang, 2.15, 94, S, Sn, 10 28 28.2 +1.9, SMRI, Semarang, 2.15, 54, S, Sn, 10 28 29.1 +2.4, SMRI, Semarang, 2.15, 54, S, Sn, 10 28 02.3 +1.4, WJJI, Wonorejo, Jawa, 2.26, 87, P, Pn, 10 28 01.3 +1.1, PKCJ, Pacitan, 2.46, 87, P, Pn, 10 28 05.3 +0.2, SJKI, Sukabumi, 2.50, 307, P, Pn, 10 28 06.4 +0.8, DBJI, Dramaga, 2.61, 312, P, Pn, 10 28 09.3 +2.1, NBJI, Ngawi, 2.90, 71, P, Pn, 10 28 12.7 +1.6, TNG, Tangerang, 2.95, 316, P, Pn, 10 28 10.2 -1.6, SBJI, Serang, 3.36, 311, P, Pn, 10 28 19.0 +1.7, CGJI, Cibinong, 3.43, 300, P, Pn, 10 28 18.9 +0.6, TBJI, Tambak Boyo, 3.47, 65, P, Pn, 10 28 19.2 +0.4, XMI, Christmas Isla, 3.64, 234, P, Pn, 10 28 20.3 -0.9, XMI, Christmas Isla, 3.65, 234, P, Pn, 10 28 20.4 -1.4, XMSI, Christmas Isla, 3.69, 234, P, Pn, 10 28 20.6 -1.2, GRJI, Gresik, 4.00, 70, P, Pn, 10 28 26.1 0.0, BLSI, Bandar Lampung, 4.51, 310, P, Pn, 10 28 35.1 +2.0, BWJI, Bawean, 4.64, 58, P, Pn, 10 28 34.9 +0.1, GMJI, Gumukmas, 4.70, 90, P, Pn, 10 28 35.3 -0.3, KMMI, Kalianget, 5.38, 77, P, Pn, 10 28 44.2 -0.6, JAGI, Jajag, Banyuwa, 5.40, 92, P, Pn, 10 28 45.8 +0.6, JAGI, Jajag, Banyuwa, 5.40, 92, S, Sn, 10 28 45.1 -0.1, JAGI, Jajag, Banyuwa, 5.40, 92, S, Sn, 10 28 45.4 -0.6, JAGI, Jajag, Banyuwa, 5.40, 92, S, Sn, 10 28 45.2 -0.1, TPI, Tanjungjandan, 5.63, 349, P, Pn, 10 28 50.1 +1.8, LWLI, Liwa, 5.66, 305, P, Pn, 10 28 50.9 +2.1, MDSI, Maura Dua, 5.89, 310, P, Pn, 10 28 53.1 +1.2, DNP, Denpasar, 6.45, 94, P, Pn, 10 28 59.5 0.0, SRBI, Singaraja, 6.46, 88, P, Pn, 10 29 00.1 +0.5, PPBI, Pangkat Pinang, 6.63, 337, P, Pn, 10 29 03.3 +1.3, MNAI, Manna, 6.93, 304, P, Pn, 10 29 07.3 +1.2, MNAI, Manna, 6.93, 304, P, Pn, 10 29 07.7 +1.6, MNAI, Manna, 6.93, 304, P, Pn, 10 29 05.9 -0.2, KSI, Kaliwang, 7.64, 307, P, Pn, 10 29 17.0 +1.1, TWSI, Taliwang, Sumb, 8.11, 93, P, Pn, 10 29 21.8 -0.4, STKI, Sintang, 8.79, 19, P, Pn, 10 29 33.7 +2.2, PLAI, Plampang, 8.99, 94, P, Pn, 10 29 34.2 -0.1, PLAI, Plampang, 8.99, 94, P, Pn, 10 29 33.4 -0.9, WBSI, Waikabubak, Su, 10.64, 98, P, Pn, 10 29 51.8 -5.1, KAPI, Kapi, 11.46, 74, P, Pn, 10 30 09.5 +1.5, SISI, Saibi, 11.83, 306, P, Pn, 10 30 09.4 -3.6, BASI, Baing, Sumba, 11.88, 100, P, Pn, 10 30 10.4 -3.2, BSSI, Bau Bau, Buton, 11.90, 80, P, Pn, 10 30 13.8 -0.1, BNSI, Bone, 11.99, 72, P, Pn, 10 30 14.9 -0.3, TTSI, Tana Toraja, 12.25, 65, P, Pn, 10 30 22.2 +3.5, EDFI, Ende, Flores, 12.86, 93, P, Pn, 10 30 22.3 -4.8, MMRI, Maumere, 13.40, 92, P, Pn, 10 30 30.4 -3.7, MMRI, Maumere, 13.40, 92, P, Pn, 10 30 30.0 -4.2, MPPI, Mapaga, 14.15, 53, P, Pn, 10 30 46.3 -2.4, GSI, Gunungsitoli, 14.64, 31, P, Pn, 10 30 45.2 -3.3, PSI, Prapa, 14.74, 318, P, Pn, 10 30 45.4 -6.4, IPM, Ipo, 14.85, 329, P, Pn, 10 30 52.8 -0.3, APPI, Ampara, 14.86, 61, P, Pn, 10 30 55.5 -1.6, BATS, Baupa, 14.89, 98, P, Pn, 10 30 54.0 -3.3, BATS, Baupa, 14.89, 98, P, Pn, 10 30 54.0 -3.3, BATI, Bauma, 14.89, 98, P, Pn, 10 30 50.7 -3.0, GIRL, Giralia, 15.20, 160, P, Pn, 10 30 54.6 -2.9, GIRL, Giralia, 15.20, 160, P, Pn, 10 30 54.0 -3.5, TOL2, Tolitoli, 15.27, 53, Pn, Pn, 10 30 55.7 -2.8, TOL2, Tolitoli, 15.27, 53, Pn, Pn, 10 30 59.2 +0.7, SOEI, Soe, 15.44, 96, Pn, Pn, 10 30 57.7 -3.2



21d 11h

comp=Z,0.3nm,0.3s

IDC 21 11:00:02.5-16.0, 17.54S:177.68W, h580km, 27km, mb3.0/3, mbtmp3.9/5, Error ellipse: s-maj=284.9km s-min=119.3km az=86.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include MSVF Nonsavu, DZM Mont Dumazac, STKA Stephens Creek, WRA Warramunga Arr, ASAR Alice Springs.

IDC 21 11:08:43.9-1.6, 30.92S:177.67W, h0km, mb3.9/3, mbtmp3.9/3, Error ellipse: s-maj=43.0km s-min=23.9km az=91.0

NEIC 21 11:08:44.0-0.9, 30.79S:0.08:177.3W, 0.2, h10km, 2km, mb4.4/8, Error ellipse: s-maj=36.4km s-min=5.4km az=68.0

ISC 21 11:08:47.2-1.5, 30.87S:0.09:177.6W, 0.2, h27km, n15, c0565/17, mb4.2/6, Kermadec Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include RAO Raoul Island, CTAO Charters Tower, RABL Rabaul, BBOO Buckleboe, AS31 Alice Springs, ASAR Alice Springs, WBR Warramunga Arr, WRA Warramunga Arr, WBO Warramunga Arr, QSPA South Pole Qui, QSPA South Pole Qui, FINES FINESS Array B, TAP 21 11:10:36.7-2.13N, 121.58E, h19km, ML3.0, 12C-8D, B, Taiwan

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include NACB Ninganchiao, NACB NACB, ETL Fush Village, TWD Chiawan, ETLH Xiulin Townshi, HWA Hualien, ETM Tongmen, EHP Heping Village, EAHA Aohua, TEYL Yanliu Villag, WHF Hehuan Shan, FUSS Fushou, ENA Nanau, NANSB Datong, ESL Shilin, SHUL Shoufeng, SHUL Nuan Shan, EWUT Wuta, TWT Tachien, TWT Tachien, TDCB Tech, LATG Datong, OWD Renai, TEGC Jichi Village, WUSB Renai, WUSB WARB Fenglin Townsh, WARB Guangfu, EGFH EGFH, ESAO Su ao, ENTT Nioudou, NDS Dongshan, TWC Suao, WVDT WVDT, YHNB Yeheng, YHNB Yeheng, NSK Sanguang, TSK Neicheng, TWE TWE, WHP Taichung City, WHP WHP, WCS Beigang Elemen, WCS Fushanzhiwuyua, FUSB FUSB, NFF Wufeng Townshi, NFF NFF, HGSD Ruisui, EOSE EOSE, EHY Hungye, EHY EHY, SSSL Suanglung, SSSL Suanglung, SMLT Sun Moon Lake, SMLT SMLT, EHYH Wanrong, EHYH EHYH, EOSA EOSA

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Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include EOS3 EOS3, TYC Yuchr, NSTT Nanjuang, LIOS Emei, KSHI Guanxi Townshi, KSHI KSHI, TWQ1 Liyutan, TWQ1 TWQ1, EGS EGS, YULB Yu-li, YULB YULB, WHYT Xinyi Township, WHYT WHYT, NSY Sanyi, NSY NSY, TW1 Yuli, NMLH Miaoli, NMLH NMLH, TCU Taichung, WJS Zhushan, WJS WJS, TATO Taipei, TATO Taipei, WNT Mingjiang, WNT WNT, TIPB Shuangxi, TIPB TIPB, HSN Hsinchu, NCUH Zhonghi, WCKO WCKO, ALS Alishan, TKB1 Santiao Chiao, CHKH Chenggong, CHKH CHKH, FULI Fuli, TW12 Kuangyinsan, TWS1 TWS1, CHNS Tsauling, CHNS CHNS, SKX1 Grass Mountain, SKX1 SKX1, ZUZH Zuzhuhu, ZUZH ZUZH, NTST Danshui, NTST NTST, CHKT Chengkung, WDLH Douliu, WDLH WDLH, YM08 YM08, YM08 YM08, ELDTW Lidau, WCKO Fanlu, WCKO WCKO, TWY Chenhua, WTK Tuku, WTK WTK, EDH Donghe, EDH EDH, TPUB Taupu, TPUB TPUB, STYH Taoyuan, WTP Taupu, WTP WTP, SNK1 Tainan City, SNK1 SNK1, CHN1 Yanshi, CHN1 CHN1, YOJ Yanaguni jima, YOJ YOJ, YOL Yanaguni jima, YOL YOL, WSL Shuilin Townsh, WSL WSL, TWGBT Beinan, TWGBT TWGBT, ICHU Yijhu, ICHU ICHU

JMA 21 11:10:58.0-0.4, 24.2N:0.6x12.4E, h21km, 2km, MV1.0/5, NEAR ISHIGAKIJIMA ISLAND, Southwestern Rikyuku

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include HATJ Hateruma jima, IRIF Iriomote-Funau, IRIF IRIF, JKRS Kuro-shima, JKRS JKRS, JIJ Ishigaki jima, JIJ JIJ, JISG Ishigakijimahi, JISG JISG

IDC 21 11:21:59.5-1.1, 30.83S:177.50W, h0km, mb4.2/5, mbtmp4.2/6, ML3.9/1, MS4.1/2, Error ellipse: s-maj=32.9km s-min=19.8km az=91.0

NEIC 21 11:22:02.8-0.6, 30.72S:0.09:177.6W, 0.2, h10km, 1km, mb4.6/14, Error ellipse: s-maj=26.5km s-min=10.9km az=64.0

ISC 21 11:22:04.4-0.7, 30.84S:0.07:177.7W, 0.1, h27km, n34, c136/35, mb4.5/12, 2C, Kermadec Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include RAO Raoul Island, RAO Raoul Island, RAO Raoul Island, URZ Urzua, URZ URZ, RPZ Rata Peaks, ONTNC Ouen Toro, ONTNC ONTNC, DZM Mont Dumazac, DZM DZM, DZM Mont Dumazac, CTAO Charters Tower, CTAO Charters Tower, BBOO Buckleboe, BBOO BBOO, AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, WBR Warramunga Arr, WBR Warramunga Arr, WRA Warramunga Arr, WRA Warramunga Arr, WBO Warramunga Arr, WBO WBO, KNRA Kununurra, FITZ Fitzroy Crossi, QSPA South Pole Qui, QSPA QSPA

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Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include QSPA South Pole Qui, ESPZ Base Esperanza, JOW Kunigami, VNA3 Neumayer Olymp, VNA2 Neumayer-Watz, PETK Petropavlovsk, KBZ KBZ, FIA1 FINESS Array S, FINES FINESS Array B, NC303 NORSPAR Array S, AKASG Malin Array Be, MMAL Mount Aron A, BRTR Keokin Array B

IDC 21 11:33:24.9-1.1, 30.61S:177.43W, h0km, mb4.1/5, mbtmp4.1/5, Error ellipse: s-maj=29.3km s-min=21.5km az=93.0

NEIC 21 11:33:27.9-1.2, 30.65S:0.1:177.4W, 0.2, h10km, 1km, mb4.7/10, Error ellipse: s-maj=29.2km s-min=18.1km az=62.0

ISC 21 11:33:30.0-0.9, 30.72S:0.07:177.5W, 0.1, h33km, n24, c1555/27, mb4.5/10, Kermadec Islands

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include RAO Raoul Island, RAO Raoul Island, RAO Raoul Island, URZ Urewera, URZ URZ, DZM Mont Dumazac, CTAO Charters Tower, STKA Stephens Creek, STKA Stephens Creek, BBOO Buckleboe, BBOO BBOO, AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, WBR Warramunga Arr, WBR WBR, WRAB Tennant Creek, WRAB WRAB, WRA Warramunga Arr, WRA WRA, WBO Warramunga Arr, WBO WBO, KNRA Kununurra, QSPA South Pole Qui, QSPA South Pole Qui, NVAR Mina Array Bea, FIA1 FINESS Array S, NC303 NORSPAR Array S, NC204 NORSPAR Array S, HFS Hagfors, AKASG Malin Array Be

SOME 21 11:53:03.8, 43.77N:69.50E, NNC 21 11:53:07.6, 1.9, 43.68N:69.93E, h0km, mb3.8, mpv3.0, Error ellipse: s-maj=10.5km s-min=7.8km az=119.0, Suspected Mining explosion.

KRNET 21 11:53:07.1, 0.1, 43.54N:69.68E, mb2.9, ISC 21 11:53:07.2, 43.59N:69.68E, 0.1, h0km, n12, c1935/21, 14C-3D, Central Kazakhstan

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res, h, m, s, ISC. Rows include KK31 Karatay Array, KK31 Karatay Array, KKAR Karatay Array, TRKS Terek-Say, MNAS Manas, ARK Arkit, EKS2 Erkin-Say, EKS2 EKS2, AML Almayshu, ARSB Arslanbob, ARSB ARSB, BTLS Baital, BTLS BTLS, BTK Batken, BTK BTK, KRBS Karabastau, KRBS KRBS, KTBS Karatobe, KTBS KTBS, WRA Warramunga Arr, WRA WRA, QSPA South Pole Qui, QSPA South Pole Qui, FINES FINESS Array B, FINES FINESS Array B

IDC 21 11:59:00.7-0.8, 23.90N:125.96E, h0km, mb3.9/17, mbtmp3.9/20, ML3.9/3, MS3.6/9, Error ellipse: s-maj=20.1km s-min=15.6km az=92.0



JMA 21 11:59:02.0,2.2338N,0.8126E,1E,0.7,h74km,MD4.7/21, MV4.1/21, NEAR MIYAKOJIMA ISLAND
NEIC 21 11:59:03.5,1.2338N,0.10125E,0.07,h10km,1km, mb4.5/48, Error ellipse: s-maj=16.6km s-min=11.4km az=173.0
MOS 21 11:59:06.9,1.6,24.30N,125.26E,h13km,mb4.5/13, Error ellipse: s-maj=16.6km s-min=9.1km az=102.4
ISC 21 11:59:01.7,1.9,23.82N,0.05125E,0.04,h1km,11km, n162,01946/144,mb4.4/52,MS3.6/7,14C,Southeastern Ryukyu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like Gusukube, Miyako jima3, Hatsumura jima, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like WAKE ISLAND Hy 38.14, WAKE ISLAND Hy 38.24, WAKE ISLAND Hy 38.25, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like NOA NORPAR Arr B, NOA NORPAR Arr B, NOA NORPAR Arr B, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for BEO 21 12:09:20.2, 0.4, 42.54N, 24.11E, h0km, ML1.4/7, Mining explosion., Bulgaria.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for IDC 21 12:09:29.6, 1.6, 30.89S, 178.12W, h0km, mb3.7/3, mbtmp3.7/3, Error ellipse: s-maj=39.1km s-min=23.5km.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for ISN 21 12:09:47.1, 0.4, 33.68N, 45.72E, h8km, 2km, ML2.6.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for IDC 21 12:17:47.4, 1.2, 29.88N, 143.27E, h0km, mb3.8/11, mbtmp3.8/14, ML2.9/2, MS4.0/3, Error ellipse: s-maj=33.7km s-min=18.1km az=81.0.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for IDC 21 12:17:54.0, 0.7, 29.92N, 0.05, 142.8E, 0.1, h30km, n62, e232/61, mb4.1/24, MS4.3/3, Southeast of Honshu.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for MAJ0 Matsushiro 7.65 331 Pn, MAJ1 Matsushiro Tunnel 7.65 331 Pn, MAJ2 Marumori 8.10 349 Pn.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for E19K Redstone River 51.27 25 P, KURK Kurchatov 51.44 313 P, KURB Kurchatov 51.50 313 P.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for C23K Itkikil River 54.18 23 P, E23K Chandalar 54.23 25 P, ILAR Eielson Array 54.98 30 P.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for IDC 21 12:21:58.5, 0.6, 19.46N, 66.27W, h0km, mb3.9/14, mbtmp4.0/16, ML3.6/2, MS3.6/9, Error ellipse: s-maj=18.8km s-min=14.3km az=76.0.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for EMPR Esperanza - Ma 0.99 194 Op, EMPR Esperanza - Ma 0.99 194 Pn, EMPR Esperanza - Ma 0.99 194 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for AOPR Arencibo Observ 1.18 202 P, AOPR Arencibo Observ 1.18 202 eS, AOPR Arencibo Observ 1.18 202 Pn.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for HUMP Col San Antoni 1.36 162 Op, HUMP Col San Antoni 1.36 162 Pn, HUMP Col San Antoni 1.36 162 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for CRPR Cabo Rojo, PR 1.63 209 Op, CRPR Cabo Rojo, PR 1.63 209 Pn, CRPR Cabo Rojo, PR 1.63 209 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for MLPR Magueyes Islan 1.63 206 Op, MLPR Magueyes Islan 1.63 206 Pn, MLPR Magueyes Islan 1.63 206 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for LODU El Espartillar 5.03 258 Op, LODU El Espartillar 5.03 258 Pn, LODU El Espartillar 5.03 258 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for CHUV Chivrico 9.56 275 Pn, CHUV Chivrico 9.56 275 P, CHUV Chivrico 9.56 275 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for BBSR BB Station 12.96 6 Pn, BBSR BB Station 12.96 6 P, BBSR BB Station 12.96 6 eS.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes entries for GOGA Godfrey 20.70 316 Op, GOGA Godfrey 20.70 316 Pn, GOGA Godfrey 20.70 316 eS.



21d 14h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Kingsbay, Spitsbergen Ar, Warramunga Arr, etc.

FCIAR 21 13:11:02.0, 80'10N-20'66E, h10km, station ZF12 has station magnitude of 3.30 station OMEGA has station magnitude of 3.20

BER 21 13:11:05.5, 3.9, 79.95N-20.81E, h22km, 18km, ML2.1, ML3.0(NAO), Confirmed Earthquake

NAO 21 13:11:05.1, 0.0, 79.94N-19.55E, h10km, ML3.0

ISC 21 13:11:03.8, 1.2, 79.96N-0.06, 20.37E, h10km, n16, s=142, 34, Svalbard region

Small table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes Kingsbay, Spitsbergen Ar, etc.

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Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes Kingsbay, Spitsbergen Ar, Warramunga Arr, etc.

ISC 21 13:35:37.9, 1.6, 30.92S-177.67W, h0km, mb3.6/3, mbmp3.8/4, ML3.3/1, Error ellipse: s-maj=41.7km

ISC 21 13:35:43.0, 1.4, 30.99S-0.09, 177.9W, 0.3, h35km, n6, s=192, 9, mb3.7/3, Kermadec Islands

ISC 21 13:36:42.2, 3.6, 1.70S-100.68E, h0km, mb3.5/4, mbmp3.5/4, Error ellipse: s-maj=176.7km

s-min=26.9km az=60.0, Southern Sumatera

Small table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes Diego Garcia H, etc.

H08S2 Diego Garcia H 28.69 257 T T 14 11 11.3

H08S3 Diego Garcia H 28.69 257 T T 14 11 11.3

H08S1 Diego Garcia H 28.71 257 T T 14 11 09.9

ASAR Alice Springs 38.88 127 P P 13 44 10.1 +0.3

STKA Stephens Creek 48.84 132 P P 13 45 29.5 -0.3

S0NM Sonmuss Array 49.59 5 P P 13 45 35.3 -0.1

MKAR Makanchi Array 50.93 344 P P 13 45 45.0 +2.0

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes H04N2, H04N1, H04N3, etc.

ISC 21 13:59:17.8, 0.7, 30.80S-0.07, 177.3W, 0.2, h35km, n22, s=166, 22, mb3.9/7, MS3.5/3, Kermadec Islands

ISC 21 14:00:46.9, 1.2, 30.78N-49.68E, h0km, mb3.7/1.5, mbmp3.7/1.9, ML3.5/4, Error ellipse: s-maj=26.1km

s-min=15.6km az=170.0

TEH 21 14:00:52.4, 31.02N-49.86E, h16km, 25km

THR 21 14:00:52.3, 0.0, 31.12N-49.85E, h10km, 8km, ML4.0

ISC 21 14:00:51.3, 0.6, 30.68N-0.07, 49.68E, 0.04, h35km, n70, s=193, 66, mb3.6/14, Western Iran

Small table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes ABEH, etc.

ABEH Behbahan 0.50 99 Op Pn 14 01 29.7 +0.7

AHWZ Ahwaz 1.10 306 Pn Pn 14 01 29.5 +2.7

AHWZ Ahwaz 1.10 306 Pn Pn 14 01 29.5 +2.7

KLNJ Kolanjah 1.68 78 Pn Pn 14 01 20.1 +1.6

KLNJ Kolanjah 1.68 78 Pn Pn 14 01 20.1 +1.6

ZNGN Zangian 1.75 35 Pn Pn 14 01 18.5 -1.1

JHBN Jahan bin 1.76 28 Pn Pn 14 01 18.2 -1.5

IBRJ Brojen 1.83 47 Pn Pn 14 01 19.8 -0.7

GTMR Gotvand 1.85 345 Pn Pn 14 01 20.0

GTMR Gotvand 1.85 345 Pn Pn 14 01 20.0

KAZZ Kazeron-Fars-I 2.02 121 Pn Pn 14 01 29.3 +6.3

IPIR Pirpir 2.25 27 Pn Pn 14 01 26.8 +0.4

IRAM Rameshah 2.65 63 Pn Pn 14 01 32.5 +1.8

IGAR Gargar 2.65 49 Pn Pn 14 01 32.6 +0.8

DSBU Dashti - Bushe 2.69 148 Pn Pn 14 01 39.5 +7.4

KHMZ Khomeyn 3.06 4 Pn Pn 14 01 38.2 +0.7

IZEF Zefreh 3.16 45 Pn Pn 14 01 39.9 +1.1

IKFM Katar-mosallam 3.24 332 Pn Pn 14 01 40.9 +1.3

IDOB Doab 3.35 338 Pn Pn 14 01 42.5 +1.2

QAMS Gansar 3.38 25 Pn Pn 14 01 42.0 +0.2

HSAM Samen 3.64 346 Pn Pn 14 01 45.9 +0.5

ASAO Ashtian 3.87 4 ePn Pn 14 01 50.0 +1.4

KRSH Karshahi 3.89 32 Pn Pn 14 01 49.1 +0.3

GHVR GHOM 4.03 19 ePn Pn 14 01 51.6 +1.0

IBZA Bozabad 4.08 38 Pn Pn 14 01 52.3 +0.8

HAGD Agdardah 4.16 354 Pn Pn 14 01 53.1 +0.5

ILBA Ilam Banvizeh 4.16 316 ePn Pn 14 01 54.3 +1.9

ISFB Sefidab 4.25 30 Pn Pn 14 01 53.5 -0.2

ANAR Anarak 4.26 53 Pn Pn 14 01 54.6 +0.8

IMEH Mehriz 4.29 79 Pn Pn 14 01 56.5 +2.1

IGOM Gom 4.32 15 Pn Pn 14 01 54.3 -0.4

ICHK Chkehchek 4.43 68 Pn Pn 14 01 56.2 +1.3

IGHG Ghalghezi 4.49 325 Pn Pn 14 01 59.0 +1.9

SNQR Soneqor, Kerman 4.51 338 Pn Pn 14 01 58.2 +0.8

YZKH Yazd 4.53 67 ePnA IAML 14 01 59.8

YZKH Yazd 4.53 67 ePnA IAML 14 01 59.8

IVRN Varamin 4.64 21 Pn Pn 14 01 59.0 +0.1

ILIN Lien 4.81 332 Pn Pn 14 02 02.4 +0.9

SNGE Sanandaj 4.82 337 ePnA IAML 14 02 02.1

SNGE Sanandaj 4.82 337 ePnA IAML 14 02 02.1

QABG Abgarm-Qazvin 5.02 359 Pn Pn 14 02 04.5 +0.2

IDMV Damavand 5.27 21 Pn Pn 14 02 07.4 -0.4

DAMV Damavand 5.30 21 ePn IAML 14 02 07.7 -0.5

DAMV Damavand 5.30 21 ePn IAML 14 02 07.7 -0.5

CHTH Charan 5.36 13 ePn Pn 14 02 08.6 -0.4

CHTH Charan 5.36 13 ePn IAML 14 02 08.5

ILAS Lasjeh 5.44 30 Pn Pn 14 02 10.2 0.0

KLST Keshdash - M 5.94 11 Pn Pn 14 02 17.0 0.0

MZPU Pul - Mazandar 5.96 15 Pn Pn 14 02 17.2 -0.1

IPRN Peran 5.98 21 Pn Pn 14 02 18.0 +0.5

TPRV Parvadeh(Tabas 6.51 328 Pn Pn 14 02 24.8 +1.5

SRSL SARVADASH 6.46 67 ePn Pn 14 02 26.5 +1.0

SRSL SARVADASH 6.46 67 ePn IAML 14 02 26.4

TABS Tabas 6.97 63 ePn Pn 14 02 31.1 +0.1

SHRO Shahrood 7.49 43 ePnA IAML 14 02 39.2

SHRO Shahrood 7.49 43 ePnA IAML 14 02 45.3



21d 15h

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SONM, GSPA, ILAR, MKAR, ZALV, NVAR, NEW, ELK, BVAR, PDAR.

Code Station Name Az Phase ID Time Res
SONM Songino Array 72.69 326 P P 15 16 13.6 +0.7
GSPA South Pole Qui 80.97 180 P P 15 16 58.5 -0.9

Code Station Name Az Phase ID Time Res
RAO Raoul Island 2.22 356 Op Pn 15 08 39.7 +0.4

Code Station Name Az Phase ID Time Res
RAO Raoul Island 2.22 356 Pn Pn 15 08 37.6 -1.7

Code Station Name Az Phase ID Time Res
RAO Raoul Island 2.22 356 Pn Pn 15 09 05.8 0.0

Code Station Name Az Phase ID Time Res
MXZ Matakoaka Point 6.89 207 Pn Pn 15 09 38.9 -4.6

Code Station Name Az Phase ID Time Res
URZ Urewera 7.98 211 Pn Pn 15 09 54.2 -4.2

Code Station Name Az Phase ID Time Res
URZ Urewera 7.98 211 Pn Sn 15 11 23.6 -4.2

Code Station Name Az Phase ID Time Res
RTZ Ruatahuna 8.33 210 Pn Pn 15 09 59.0 -4.4

Code Station Name Az Phase ID Time Res
MRZ Mangatoinaka 10.64 209 Pn Pn 15 10 29.4 -5.5

Code Station Name Az Phase ID Time Res
THZ Topouse 12.71 214 Pn Pn 15 11 03.3 0.0

Code Station Name Az Phase ID Time Res
KHZ Kahurangi 12.95 210 Pn Pn 15 10 58.9 -7.0

Code Station Name Az Phase ID Time Res
MSVF Nonsavu 14.20 343 Pn Pn 15 11 22.9 -0.9

Code Station Name Az Phase ID Time Res
MSVF Nonsavu 14.20 343 Pn LR 15 16 21.0

Code Station Name Az Phase ID Time Res
DZM Mont Dzumac 16.92 300 P Pn 15 12 00.3 +1.0

Code Station Name Az Phase ID Time Res
DZM Mont Dzumac 16.92 300 P LR 15 17 39.0

Code Station Name Az Phase ID Time Res
ARMA Armidale 26.25 264 P Iamb Iamb 15 13 37.5 +0.1

Code Station Name Az Phase ID Time Res
ARMA Armidale 26.25 264 P Iamb Iamb 15 13 57.9

Code Station Name Az Phase ID Time Res
PPT Papeete 29.03 68 LR LR 15 24 58.0

Code Station Name Az Phase ID Time Res
TOO Toolangi 30.76 248 P P 15 14 19.3 +1.9

Code Station Name Az Phase ID Time Res
CTAO Charters Tower 34.20 281 P Iamb Iamb 15 14 48.0 +0.4

Code Station Name Az Phase ID Time Res
CTAO Charters Tower 34.20 281 P Iamb Iamb 15 14 53.8

Code Station Name Az Phase ID Time Res
STKA Stephens Creek 34.46 258 P P 15 14 48.4 -1.5

Code Station Name Az Phase ID Time Res
STKA Stephens Creek 34.46 258 P P 15 14 50.8 +0.9

Code Station Name Az Phase ID Time Res
BBOO Buckleboe 38.90 255 P Iamb Iamb 15 15 28.2 +0.5

Code Station Name Az Phase ID Time Res
BBOO Buckleboe 38.90 255 P Iamb Iamb 15 15 29.6

Code Station Name Az Phase ID Time Res
COEN Coen 39.78 287 P Iamb Iamb 15 15 34.0 -1.1

Code Station Name Az Phase ID Time Res
COEN Coen 39.78 287 P Iamb Iamb 15 15 34.5

Code Station Name Az Phase ID Time Res
AS31 Alice Springs 43.28 268 P P 15 16 05.6 +1.8

Code Station Name Az Phase ID Time Res
ASAR Alice Springs 43.28 268 P P 15 16 05.1 +1.2

Code Station Name Az Phase ID Time Res
ASAR Alice Springs 43.28 268 P P 15 17 53.2 +0.5

Code Station Name Az Phase ID Time Res
WR8 Warramunga Arr 44.22 273 P P 15 16 10.7 -0.8

Code Station Name Az Phase ID Time Res
WR8 Warramunga Arr 44.22 273 P Iamb Iamb 15 16 14.5

Code Station Name Az Phase ID Time Res
WRA Warramunga Arr 44.36 273 P P 15 16 14.3 +1.8

Code Station Name Az Phase ID Time Res
WRA Warramunga Arr 44.36 273 P P 15 17 57.8 +1.6

Code Station Name Az Phase ID Time Res
WB0 Warramunga Arr 44.39 273 P P 15 16 13.3 +0.5

Code Station Name Az Phase ID Time Res
KNRA Kununurra 51.01 275 P Iamb Iamb 15 17 02.2 -1.9

Code Station Name Az Phase ID Time Res
KNRA Kununurra 51.01 275 P Iamb Iamb 15 17 27.1

Code Station Name Az Phase ID Time Res
FITZ Fitzroy Crossi 52.58 271 P P 15 17 14.6 -1.3

Code Station Name Az Phase ID Time Res
CASY Casey 54.30 208 P P 15 17 28.5 +0.7

Code Station Name Az Phase ID Time Res
GSPA South Pole Qui 58.64 180 P P 15 18 00.6 +1.7

Code Station Name Az Phase ID Time Res
SNAASanae 77.08 178 P P 15 19 55.3 +0.5

Code Station Name Az Phase ID Time Res
SNAASanae 77.08 178 P Iamb Iamb 15 19 53.5 -1.3

Code Station Name Az Phase ID Time Res
SNAASanae 77.08 178 P Iamb Iamb 15 19 56.5

Code Station Name Az Phase ID Time Res
SNAASanae 77.08 178 P P 15 19 54.5 -0.2

Code Station Name Az Phase ID Time Res
VNA3 Neumayer-Olymp 72.22 176 P P 15 19 55.8 +0.3

Code Station Name Az Phase ID Time Res
VNA2 Neumayer-Watz 72.66 177 P P 15 19 58.6 +0.7

Code Station Name Az Phase ID Time Res
VNA1 Neumayer-Stat 77.89 176 P P 15 20 02.1 +1.0

Code Station Name Az Phase ID Time Res
LPIG La Paz 84.92 58 LR LR 15 22 59.6

Code Station Name Az Phase ID Time Res
PETK Petropavlovsk- 86.90 345 P P 15 20 46.8 +0.6

Code Station Name Az Phase ID Time Res
NVAR Mina Array Bea 88.88 43 P P 15 20 55.7 -0.6

Code Station Name Az Phase ID Time Res
ELK Elko 92.19 42 P P 15 21 11.9 +0.2

Code Station Name Az Phase ID Time Res
TXAR Lajitas Array 92.78 57 P P 15 21 14.1 -0.5

Code Station Name Az Phase ID Time Res
PDAR Pinedale Array 96.76 44 P P 15 21 31.2 -1.4

Code Station Name Az Phase ID Time Res
KURBB Kurchatov Arra 121.98 313 PKP PKIKP 15 26 56.3 +0.4

Code Station Name Az Phase ID Time Res
BVAR Borovoye Array 127.32 315 PKP PKIKP 15 27 06.7 +0.2

Code Station Name Az Phase ID Time Res
KBZ Khabaz 145.88 303 PKPbc PKPab 15 27 41.6 +0.1

Code Station Name Az Phase ID Time Res
FIA1 FINESS Array B 146.22 340 PKPbc PKPab 15 27 42.0 -0.3

Code Station Name Az Phase ID Time Res
FINES FINESS Array B 146.22 340 PKPbc PKPab 15 27 42.0 -0.3

Code Station Name Az Phase ID Time Res
NOA NORARS Array B 149.84 351 PKPbc PKPab 15 27 51.3 +0.1

Code Station Name Az Phase ID Time Res
HFS Hagfors 150.34 348 PKPbc PKPbc 15 27 52.4 0.0

Code Station Name Az Phase ID Time Res
MMAI Mount Meron Arr 151.98 282 PKPbc PKIKP 15 27 58.9 +1.4

Code Station Name Az Phase ID Time Res
AKASG Malin Array Be 152.28 322 PKPbc PKIKP 15 27 57.7 +0.2

Code Station Name Az Phase ID Time Res
AKASG Malin Array Be 152.28 322 PKPbc PKPab 15 28 07.5 +0.4

Code Station Name Az Phase ID Time Res
AKAB Malin Array Si 152.28 322 PKP PKPbc 15 27 49.0 -1.4

Code Station Name Az Phase ID Time Res
AKO1 Malin Array Si 152.29 322 PKP PKPbc 15 27 49.0 -1.4

Code Station Name Az Phase ID Time Res
BRTR Reskin Array B 153.29 297 PKPbc PKIKP 15 28 00.6 +0.5

Code Station Name Az Phase ID Time Res
GERES GERESS Array B 160.61 337 PKPbc PKPab 15 28 42.6 -0.5

Code Station Name Az Phase ID Time Res
TORD Torodi Arr Bea 161.75 178 PKPab PKPab 15 28 48.8 +0.1

Code Station Name Az Phase ID Time Res
TORD Torodi Arr Bea 161.75 178 PKPab PKPab 15 28 48.8 +0.1

Code Station Name Az Phase ID Time Res
ASAR Alice Springs 43.19 268 P P 15 26 44.6 -0.1
WRA Warramunga Arr 44.24 273 P P 15 26 53.1 -0.2
FINES FINESS Array B 145.78 340 PKPbc PKPbc 15 28 31.3 -0.4

Code Station Name Az Phase ID Time Res
ILS Iliamna Low So 0.14 330 Op Pn 15 20 21.3 0.0
ILS Iliamna Low So 0.14 330 Pn Sn 15 20 32.1 -0.2
ILSW Iliamna Southw 0.18 324 Pn Sn 15 20 21.2 -0.2

Code Station Name Az Phase ID Time Res
ILSW Iliamna Southw 0.18 324 Pn Sn 15 20 33.6
ILSW Iliamna Southw 0.18 324 Pn Sn 15 20 34.2

Code Station Name Az Phase ID Time Res
ILSW Iliamna Southw 0.18 324 Pn Sn 15 20 31.1 -0.5
OPT Oil Point 0.24 219 Pn Sn 15 20 21.7 +0.1

Code Station Name Az Phase ID Time Res
P19K Oil Point 0.24 219 Pn Sn 15 20 21.7 0.0
O20K Slope Mountain 0.29 33 Pn Sn 15 20 32.9 +0.2

Code Station Name Az Phase ID Time Res
O20K Slope Mountain 0.29 33 Pn Sn 15 20 33.2 +0.1
AU22 Augustine Moun 0.52 205 Pn Sn 15 20 32.1 +0.1

Code Station Name Az Phase ID Time Res
AUCH Augustine Cone 0.55 209 Pn Sn 15 20 35.2 0.0
RED Redoubt Volcan 0.58 8 Pn Sn 15 20 36.0 -0.3

Code Station Name Az Phase ID Time Res
RED Redoubt Volcan 0.58 8 Pn Sn 15 20 37.1 +0.1
RED Redoubt Volcan 0.58 8 Pn Sn 15 20 36.6

Code Station Name Az Phase ID Time Res
RDSD Redoubt South 0.62 9 Pn Sn 15 20 24.1 +0.2
RDWB Redoubt West 0.65 4 Pn Sn 15 20 37.2 -0.2

Code Station Name Az Phase ID Time Res
HOM Homer 0.68 105 Pn Sn 15 20 24.8 +0.6
HOM Homer 0.68 105 Pn Sn 15 20 34.4 +0.1

Code Station Name Az Phase ID Time Res
NCT North Crescent 0.72 0 Pn Sn 15 20 38.2 0.0
O19K Port Alsworth 0.78 298 Pn Sn 15 20 25.2 +0.1

Code Station Name Az Phase ID Time Res
O19K Port Alsworth 0.78 298 Pn Sn 15 20 38.5 -0.5
RDT Redoubt 0.78 20 Pn Sn 15 20 39.1 -0.1

Code Station Name Az Phase ID Time Res
CNPM China Poot 0.92 109 Pn Sn 15 20 26.9 +0.4
CNPM China Poot 0.92 109 Pn Sn 15 20 40.4 +1.2

Code Station Name Az Phase ID Time Res
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 42.2 -0.5
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 26.9 -0.3

Code Station Name Az Phase ID Time Res
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 45.2
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 45.2

Code Station Name Az Phase ID Time Res
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 49.4
Q19K Cape Douglas 0.98 202 Pn Sn 15 20 49.4

Code Station Name Az Phase ID Time Res
BRLL Bradley Lake 1.04 93 Pn Sn 15 20 28.0 -0.2
O18K Koktuh Hills 1.15 272 Pn Sn 15 20 28.8 -0.2

Code Station Name Az Phase ID Time Res
O18K Koktuh Hills 1.15 272 Pn Sn 15 20 45.6
O18K Koktuh Hills 1.15 272 Pn Sn 15 20 45.7

Code Station Name Az Phase ID Time Res
O18K Koktuh Hills 1.15 272 Pn Sn 15 20 45.0 -0.8
N19K Bonanza Creek 1.24 322 Pn Sn 15 20 47.4 -0.5

Code Station Name Az Phase ID Time Res
N19K Bonanza Creek 1.24 322 Pn Sn 15 20 30.9 +0.1
N19K Bonanza Creek 1.24 322 Pn Sn 15 20 48.3

Code Station Name Az Phase ID Time Res
N19K Bonanza Creek 1.24 322 Pn Sn 15 20 48.5
N19K Bonanza Creek 1.24 322 Pn Sn 15 20 48.5

Code Station Name Az Phase ID Time Res
P18K Big Mountain 1.25 250 Pn Sn 15 20 29.8 -0.4
SYI Shuyak Island 1.27 167 Pn Sn 15 20 48.3 +0.1

Code Station Name Az Phase ID Time Res
SYI Shuyak Island 1.27 167 Pn Sn 15 20 30.6 +0.4
SYI Shuyak Island 1.27 167 Pn Sn 15 20 49.4

Code Station Name Az Phase ID Time Res
SPCR Spurr Chakacha 1.41 14 Pn Sn 15 20 51.4 +0.1
SPCR Spurr Chakacha 1.41 14 Pn Sn 15 20 32.5 +0.5

Code Station Name Az Phase ID Time Res
SLKM Skliak Lake 1.51 63 Pn Sn 15 20 33.9 +0.6
KAM Katmai Hetracr 1.60 223 Pn Sn 15 20 36.0 +1.2

Code Station Name Az Phase ID Time Res
N18K Kilae Creek 1.70 301 Pn Sn 15 20 35.3 -1.2
N18K Kilae Creek 1.70 301 Pn Sn 15 20 56.5 0.0

Code Station Name Az Phase ID Time Res
N18K Kilae Creek 1.70 301 Pn Sn 15 20 57.2
N18K Kilae Creek 1.70 301 Pn Sn 15 20 57.2

Code Station Name Az Phase ID Time Res
N18K Kilae Creek 1.70 301 Pn Sn 15 20 58.2
N18K Kilae Creek 1.70 301 Pn Sn 15 20 58.2

Code Station Name Az Phase ID Time Res
STLK Strandline Lake 1.75 18 Pn Sn 15 20 36.8 +0.6
SEW Seward 1.77 80 Pn Sn 15 20 36.5 +0.2

Code Station Name Az Phase ID Time Res
SEW Seward 1.77 80 Pn Sn 15 20 59.6
SEW Seward 1.77 80 Pn Sn 15 21 06.0

Code Station Name Az Phase ID Time Res
FIS Fire Island 1.88 45 Pn Pn 15 20 40.0 +2.4
FIS Fire Island 1.88 45 Pn Pn 15 21 15.1

Code Station Name Az Phase ID Time Res
FIS Fire Island 1.88 45 Pn Pn 15 21 23.7
FIS Fire Island 1.88 45 Pn Pn 15 21 23.7

Code Station Name Az Phase ID Time Res
P17K Kvichak River 1.90 252 Pn Pn 15 20 38.4 +0.4
SUA Sustaina One 1.95 33 Pn Pn 15 20 39.5 +0.7

Code Station Name Az Phase ID Time Res
SUA Sustaina One 1.95 33 Pn Pn 15 21 06.8
SUA Sustaina One 1.95 33 Pn Pn 15 21 06.8

Code Station Name Az Phase ID Time Res
RC01 Rabbit Creek A 2.02 50 Pn Pn 15 20 40.3 +0.7
M20K Styx River 2.05 357 Pn Pn 15 20 40.7 +0.7

Code Station Name Az Phase ID Time Res
ACHA Angie Creek He 2.05 218 Pn Pn 15 20 40.5 +0.5
KDAK Kodiak Island 2.07 175 Pn Pn 15 20 39.5 -0.7

Code Station Name Az Phase ID Time Res
KDAK Kodiak Island 2.07 175 Pn Pn 15 21 06.8
KDAK Kodiak Island 2.07 175 Pn Pn 15 20 39.5 -0.7

Code Station Name Az Phase ID Time Res
KDAK Kodiak Island 2.07 175 Pn Pn 15 21 04.8 -1.1
KDAK Kodiak Island 2.07 175 Pn Pn 15 21 35.7

Code Station Name Az Phase ID Time Res
ANCK Angle Creek 2.11 220 Pn Pn 15 20 41.3 +0.4
CAHL Cahill 2.17 215 Pn Pn 15 20 42.2 +0.6

Code Station Name Az Phase ID Time Res
M19K Big River Lodg 2.19 342 Pn Pn 15 21 09.4
CNTC Contact Creek 2.20 225 Pn Pn 15 20 42.2 +0.3

Code Station Name Az Phase ID Time Res
N17K Nushagak Hills 2.23 290 Pn Pn 15 20 42.4 +0.1
N17K Nushagak Hills 2.23 290 Pn Pn 15 21 10.1

Code Station Name Az Phase ID Time Res
N17K Nushagak Hills 2.23 290 Pn Pn 15 21 24.1
SKT Skwentna 2.25 17 Pn Pn 15 20 43.1 +0.5

Code Station Name Az Phase ID Time Res
SKT Skwentna 2.25 17 Pn Pn 15 21 13.2
R18K Karluk 2.42 200 Pn Pn 15 20 44.2 -0.4

Code Station Name Az Phase ID Time Res
L19K White Mountain 2.53 339 Pn Pn 15 21 18.3
L19K White Mountain 2.53 339 Pn Pn 15 21 18.8

Code Station Name Az Phase ID Time Res
PMR Palmer 2.56 45 Pn Pn 15 20 46.7 +0.1
PMR Palmer 2.56 45 Pn Pn 15 21 17.8

Code Station Name Az Phase ID Time Res
GHO Port Fidalgo 3.34 71 Pn Pn 15 20 55.6 -1.3
CUT Chulitna 3.37 94 Pn Pn 15 20 57.3 +0.1

Code Station Name Az Phase ID Time Res
SML Sawmill 3.00 47 Pn Pn 15 20 52.2 -0.2
SML Sawmill 3.00 47 Pn Pn 15 21 28.8

Code Station Name Az Phase ID Time Res
SML Sawmill 3.00 47 Pn Pn 15 21 55.4
SML Sawmill 3.00 47 Pn Pn 15 21 55.4

Code Station Name Az Phase ID Time Res
GLI Glacier Island 3.08 68 Pn Pn 15 20 52.7 -0.8
PPLA Purkeypile 3.09 6 Pn Pn 15 20 55.1 +1.5

Code Station Name Az Phase ID Time Res
HIN Hinchinbrook I 3.27 77 Pn Pn 15 20 55.6 -0.3
HIN Hinchinbrook I 3.27 77 Pn Pn 15 21 34.6

Code Station Name Az Phase ID Time Res
HIN Hinchinbrook I 3.27 77 Pn Pn 15 21 35.3
HIN Hinchinbrook I 3.27 77 Pn Pn 15 21 35.3

Code Station Name Az Phase ID Time Res
FID Fidalgo 3.34 71 Pn Pn 15 20 55.6 -1.3
Q23K Middleton Isla 3.37 94 Pn Pn 15 20 57.3 +0.1

Code Station Name Az Phase ID Time Res
Q23K Middleton Isla 3.37 94 Pn Pn 15 21 37.6
SCM Sheep Creek Mo 3.39 52 Pn Pn 15 20 57.8 +0.1

Code Station Name Az Phase ID Time Res
SCM Sheep Creek Mo 3.39 52 Pn Pn 15 21 41.6
SCM Sheep Creek Mo 3.39 52 Pn Pn 15 21 41.6

Code Station Name Az Phase ID Time Res
K20K Telida 3.57 352 Pn Pn 15 21 00.6 +0.6
O15K Ungvalthuk River 3.58 282 Pn Pn 15 21 01.0 +1.0

Code Station Name Az Phase ID Time Res
N15K Ungvalthuk River 3.61 278 Pn Pn 15 21 01.6 +1.1
N15K Ungvalthuk River 3.61 278 Pn Pn 15 22 07.7

Code Station Name Az Phase ID Time Res
N15K Ungvalthuk River 3.61 278 Pn Pn 15 22 11.5
N15K Ungvalthuk River 3.61 278 Pn Pn 15 22 11.5

Code Station Name Az Phase ID Time Res
CAST Castle Rocks 3.61 6 Pn Pn 15 21 01.4 +0.8
EYAK Cordova Ski Ar 3.66 76 Pn Pn 15 21 00.4 -0.7

Code Station Name Az Phase ID Time Res
EYAK Cordova Ski Ar 3.66 76 Pn Pn 15 21 43.6
EYAK Cordova Ski Ar 3.66 76 Pn Pn 15 21 43.6

Code Station Name Az Phase ID Time Res
EYAK Cordova Ski Ar 3.66 76 Pn Pn 15 21 46.1
EYAK Cordova Ski Ar 3.66 76 Pn Pn 15 21 46.1

Code Station Name Az Phase ID Time Res
WAT1 Susitna Watersh 3.67 33 Pn Pn 15 21 01.7 +0.4
L16K Ohwat River 3.71 303 Pn Pn 15 21 02.0 +0.1

Code Station Name Az Phase ID Time Res
DIV Divide 3.77 67 Pn Pn 15 21 02.4 -0.4
DIV Divide 3.77 67 Pn Pn 15 21 46.7

Code Station Name Az Phase ID Time Res
KLU Klutina 3.83 61 Pn Pn 15 21 03.0 -0.5
TRF Thorofore Moun 3.83 18 Pn Pn 15 21 03.8 +0.1

Code Station Name Az Phase ID Time Res
TRF Thorofore Moun 3.83 18 Pn Pn 15 21 51.8
TRF Thorofore Moun 3.83 18 Pn Pn 15 21 51.8



RIDG	Independent Ri	5.48	41	Pn	15 21 26.7 +1.0
MESA	MESA	5.52	82	Pn	15 21 27.0 +0.5
COLA	College	5.58	23	Pn	15 21 26.2 -0.7
YAH	Yahitse	5.62	80	Pn	15 21 28.9 +1.0
IL31		5.69	27	Pn	15 21 28.4 -0.2
ILAR	Eielson Array	5.99	20	P	15 21 27.8 -0.8
ILAR	comp=E, 1.7nm, 0.5s, baz=212, slow=14, SNR=35				
ILAR	S				15 22 28.8 -3.8
ILAR	comp=E, 1.4nm, 0.4s, baz=212, slow=16, SNR=60				
BARN	Barnard Glacier	5.71	36	Pn	15 21 30.1 +1.1
RKAV	Rock Avalanche	5.71	36	Pn	15 21 31.2 +0.6
H21K	Melozitna Rive	5.84	1	Pn	15 21 31.1 +0.5
CTGM	Chitina Glacie	5.86	74	Pn	15 21 32.3 +1.2
POKR	Poker Plat Res	5.88	23	Pn	15 21 31.4 +0.4
H18K	Honhosa River	5.99	337	Pn	15 21 31.4 +0.1
TABL	Table Mountain	5.92	79	Pn	15 21 32.5 +0.6
M27K	Edge Creek, AK	6.45	19	Pn	15 21 32.7 +0.8
H19K	Roundabout Mou	5.93	346	Pn	15 21 31.9 +0.2
CHX	Chaix Hills	5.94	83	Pn	15 21 33.6 +1.6
J25K	Salcha River,	5.95	33	Pn	15 21 32.1 0.0
LOGN	Logan Glacier	6.01	75	Pn	15 21 33.9 +0.8
H17K	Granite Mounm	6.05	331	Pn	15 21 33.7 +0.2
SAMH	Samovir Hills	6.11	82	Pn	15 21 35.5 +1.2
H22K	Ishtalita Cre	6.12	6	Pn	15 21 34.8 +0.5
H23K	Yukon River	6.20	13	Pn	15 21 35.5 0.0
PCA	Pinnacle	6.37	82	Pn	15 21 39.1 +1.2
J26L	Joseph Creek	6.41	19	Pn	15 21 38.9 +0.5
H24K	Woodor Dome	6.45	19	Pn	15 21 39.0 +0.1
PRP	Porcupine Dome	6.63	28	Pn	15 21 41.6 +0.1
I26K	Coal Creek Min	7.10	35	Pn	15 21 47.8 +0.1
O29M	Mount Kennedy	7.20	80	Pn	15 21 50.7 +1.5
F20K	Avarakt Lake	7.34	351	Pn	15 21 51.8 +0.9
F21K	Alatina River	7.41	358	Pn	15 21 52.6 +0.7
M29M	Somme Creek	7.47	63	Pn	15 21 53.8 +1.0
P29M	Windy Craggy	7.68	85	Pn	15 21 56.7 +1.1
N30M	Aishikik Lake	7.95	71	Pn	15 21 59.6 +0.2
I28M	Miner Creek	8.20	41	Pn	15 22 03.5 +0.7
H27K	Steamboat Moun	8.23	34	Pn	15 22 03.5 +0.5
U33K	Whale Pass	11.15	101	Pn	15 22 10.1 0.0
DLBC	Dease Lake	11.83	87	Pn	15 22 52.8 +1.0
DLBC	comp=E, 0.1nm, 0.3s, baz=307, slow=12, SNR=2.0				
DLBC	S				15 24 57.2 -4.5
DLBC	comp=E, 0.1nm, 0.3s, baz=228, slow=24, SNR=1.1				
YKA	Yellowknife Ar	18.49	65	Pn	15 24 15.2 -0.3
YKA	comp=E, 0.4nm, 0.6s, baz=262, slow=14, SNR=1.8				
PETK	Petropavlovsk-	27.52	278	P	15 25 43.5 +0.6
PETK	comp=E, 0.1nm, 0.4s, baz=152, slow=14, SNR=8.5				
PETK	comp=E, 0.1nm, 0.4s				
PDAR	Pinedale Array	31.32	103	P	15 26 19.3 +2.4
PDAR	comp=E, 0.1nm, 0.5s, baz=314, slow=8.9, SNR=1.8				
PDAR	comp=E, 0.1nm, 0.5s				
SPITS	Spitsbergen Ar	42.07	3	P	15 27 47.0 -0.3
SPITS	comp=E, 0.7nm, 1.0s, baz=302, slow=8.3, SNR=4.3				
SPITS	comp=E, 3.7nm, 1.0s				
ARCES	ARCCESS Array B	50.91	1	P	15 28 56.9 +0.5
ARCES	comp=E, 3.3nm, 1.1s, baz=176, slow=9.5, SNR=1.4				
ARCES	comp=E, 3.3nm, 1.1s				
KSRS	Korea Array	53.25	283	P	15 29 15.0 +1.0
KSRS	comp=E, 0.7nm, 0.8s, baz=68, slow=19, SNR=2.8				
KSRS	comp=E, 0.7nm, 0.8s				
ZALV	Zalesov Array	57.52	324	P	15 29 44.7 +0.3
ZALV	comp=E, 1.6nm, 0.5s, baz=31, slow=6.6, SNR=5.9				
ZALV	comp=E, 1.6nm, 0.5s				
BVAR	Borovoye Array	62.22	332	P	15 30 16.4 -0.2
BVAR	comp=E, 1.1nm, 0.6s, baz=28, slow=6.7, SNR=6.4				
BVAR	comp=E, 1.1nm, 0.6s				
KURBB	Kurchatov Arra	62.29	326	P	15 30 16.9 -0.2
KURBB	comp=E, 0.4nm, 0.6s, baz=25, slow=6.2, SNR=4.5				
KURBB	comp=E, 0.4nm, 0.6s				
QSPA	South Pole Qui	149.64	180	PKPbc	15 39 41.3 -0.9
QSPA	comp=E, 0.3nm, 0.5s, baz=140, slow=9.2, SNR=1.2				

TAP 21 15:41:20.5, 25°25'N, 122°86'E, h184km, ML2.9, D  
 JMA 21 15:41:22.3, 0.3, 25°N, 122°7E, 0.8, h175km, MV2.3/10,  
 NW OF ISHIGAKI, IMA 21 15:41:22.7, 2.6, 25°N, 122°7E, 0.8, h179km, 14km,  
 n54, c062/97, Taiwan region

Code	Station Name	Δ°	AZ°	Phase ID	Time Res	ISC
TWB1	Santiao Chiao	0.67	262	eP	15 41 47.8 -0.4	PAGU
TWB1		0.62	163	eP	15 42 07.8 +0.1	PAGU
YJNG	Yonagunijimaku	0.68	163	eP	15 41 48.3 0.0	PAGU
YOJ	Yonagumi jima	0.69	158	P	15 41 47.9 -0.4	PAGU
YOJ		15	42 07.0 -1.1	PAGU	15 42 07.0 -1.1	PAGU
SK11	Grass Mountain	0.77	269	eP	15 41 48.1 -0.7	PAGU
EO52	EO52	0.82	213	P	15 41 49.2 +0.3	PAGU
EO52		15	42 09.0 -0.0	PAGU	15 42 09.0 -0.0	PAGU
TIFB	Shuangxi	0.82	261	P	15 41 48.3 -0.4	PAGU
TIFB		15	42 09.6 +0.2	PAGU	15 42 09.6 +0.2	PAGU
EO53	EO53	0.90	204	eP	15 41 49.9 +0.4	PAGU
EO53		15	42 10.4 +0.4	PAGU	15 42 10.4 +0.4	PAGU
ND5	Dongshan	1.03	243	eP	15 41 49.8 -0.8	PAGU
EWUT	Wuta	1.08	233	P	15 42 13.0 +1.0	CMLA
EWUT		15	42 13.0 +1.0	CMLA	15 42 13.0 +1.0	CMLA
FUSB	Fushanzhiwuyua	1.09	252	P	15 42 13.1 +0.4	CMLA
FUSB		15	41 50.6 -0.5	CMLA	15 41 50.6 -0.5	CMLA
FUSB		15	42 13.6 +0.7	CMLA	15 42 13.6 +0.7	CMLA
ENA	Nanau	1.12	233	iP	15 41 51.2 0.0	CMLA
ENTT	Entt	1.15	246	eP	15 41 51.9 +0.4	CMLA
ENTT		15	42 15.2 +1.5	CMLA	15 42 15.2 +1.5	CMLA
IRIF	Iriomote-Funau	1.20	130	eP	15 41 51.8 -0.1	CMLA
IRIF		15	42 14.5 +0.2	CMLA	15 42 14.5 +0.2	CMLA
LATG	Datong	1.23	243	eP	15 41 52.3 -0.0	CMLA
LATG		15	42 16.2 +1.2	CMLA	15 42 16.2 +1.2	CMLA
YHNB	Yeheng	1.30	251	eP	15 41 52.0 -0.8	CMLA
YHNB		15	42 16.6 +0.5	CMLA	15 42 16.6 +0.5	CMLA
NSK	Sanguang	1.31	251	eP	15 41 52.0 -1.0	CMLA
NSK		15	42 16.3 +0.1	CMLA	15 42 16.3 +0.1	CMLA
ETL	Fush Village	1.37	227	eP	15 42 17.5 +0.4	PCALD
ETL		15	42 17.5 +0.4	PCALD	15 42 17.5 +0.4	PCALD
NACB	Ninganchiao	1.38	228	eP	15 41 52.9 -0.7	PSBA
NACB		15	42 17.5 +0.2	PSBA	15 42 17.5 +0.2	PSBA
NNSB	Datong	1.39	241	eP	15 41 53.7 0.0	PSBA
NNSB		15	42 18.6 +0.9	PSBA	15 42 18.6 +0.9	PSBA
NNSB		15	42 19.3 +0.6	PSBA	15 42 19.3 +0.6	PSBA
HATJ	Hateruma jima	1.44	136	eP	15 41 54.8 +0.8	PSBA
ETLH	Xiulin Townshi	1.44	232	eP	15 41 54.0 -0.2	PSBA
ETLH		15	42 18.2 -0.2	PSBA	15 42 18.2 -0.2	PSBA
TWD	Chiawan	1.45	225	eP	15 41 53.9 -0.2	PSBA
TWD		15	42 18.6 +0.5	PSBA	15 42 18.6 +0.5	PSBA
JKRS	Kuro-shima	1.46	126	eP	15 41 54.3 -0.9	PSBA
JKRS		15	42 19.1 +0.7	PSBA	15 42 19.1 +0.7	PSBA
JIJ	Ishigaki jima	1.49	119	eP	15 41 54.5 0.0	PSBA
JIJ		15	42 18.7 -0.4	PSBA	15 42 18.7 -0.4	PSBA
NFF	Wufeng Townshi	1.53	252	eP	15 41 53.9 -1.1	PSBA
NFF		15	42 19.7 -1.2	PSBA	15 42 19.7 -1.2	PSBA
JISG	Ishigakijimahi	1.53	109	eP	15 41 54.8 -0.1	PSBA
JISG		15	42 19.7 -0.1	PSBA	15 42 19.7 -0.1	PSBA
FUSS	Fushou	1.59	238	eP	15 41 55.8 -0.1	PSBA
FUSS		15	42 21.8 +0.5	PSBA	15 42 21.8 +0.5	PSBA
ETM	Tongmen	1.59	225	eP	15 41 54.9 -0.7	PSBA
ETM		15	42 19.7 -1.2	PSBA	15 42 19.7 -1.2	PSBA
TEYL	Yanliu Villag	1.60	220	eP	15 42 20.0 -0.6	PSBA
TEYL		15	41 55.2 -0.7	PSBA	15 41 55.2 -0.7	PSBA
LXIB	Xiulin Townshi	1.61	228	eP	15 42 21.8 +0.3	PSBA
LXIB		15	42 21.8 +0.3	PSBA	15 42 21.8 +0.3	PSBA
LIOB	Emei	1.62	254	eP	15 41 55.2 -0.6	PSBA
LIOB		15	42 21.8 +0.3	PSBA	15 42 21.8 +0.3	PSBA
WHF	Hehuan Shan	1.64	235	eP	15 41 56.7 +0.3	PSBA
WHF		15	42 23.0 +0.6	PSBA	15 42 23.0 +0.6	PSBA
WHF		15	42 24.6 -0.9	PSBA	15 42 24.6 -0.9	PSBA
EGFH	Guangfu	1.85	220	eP	15 41 57.9 -0.3	PSBA
EGFH		15	42 25.5 +1.0	PSBA	15 42 25.5 +1.0	PSBA
ESL	Shiini	1.74	223	eP	15 41 56.5 -0.6	PSBA
ESL		15	42 22.8 -1.0	PSBA	15 42 22.8 -1.0	PSBA
WHP	Taichung City	1.81	243	eP	15 41 57.0 -0.1	PSBA
WHP		15	42 24.6 -0.4	PSBA	15 42 24.6 -0.4	PSBA
OWD	Renai	1.81	231	eP	15 41 58.3 +0.3	PSBA
OWD		15	42 26.3 +1.1	PSBA	15 42 26.3 +1.1	PSBA
WUSB	Renai	1.83	233	eP	15 41 58.8 +0.6	PSBA
WUSB		15	42 26.3 +0.8	PSBA	15 42 26.3 +0.8	PSBA
WARB	Fenglin Townsh	1.84	222	eP	15 41 59.3 +0.6	PSBA
WARB		15	42 24.6 -0.9	PSBA	15 42 24.6 -0.9	PSBA
EGFH	Guangfu	1.85	220	eP	15 41 57.9 -0.3	PSBA
EGFH		15	42 25.5 +1.0	PSBA	15 42 25.5 +1.0	PSBA
JTU	Tarama	1.86	104	eP	15 42 25.5 -0.1	PSBA
JTU		15	41 59.4 +0.2	PSBA	15 41 59.4 +0.2	PSBA
WCS	Beigang Elemen	1.93	238	eP	15 42 27.1 -0.3	PSBA
WCS		15	41 59.9 +0.5	PSBA	15 41 59.9 +0.5	PSBA
WDVT	WDVT	1.97	227	eP	15 42 28.4 +0.6	PSBA
WDVT		15	41 59.4 -0.3	PSBA	15 41 59.4 -0.3	PSBA
HGSD	Ruisui	2.00	217	eP	15 42 29.1 +0.7	PSBA
HGSD		15	42 29.1 +0.7	PSBA	15 42 29.1 +0.7	PSBA

EYHY	Wanrong	2.04	218	eP	15 42 00.1 0.0
EYHY		15	42 27.3 -1.9	Sn	15 42 27.3 -1.9
EYHY	Hungye	2.04	219	eP	15 42 00.2 0.0
SSLB	Suanglung	2.08	231	eP	15 42 00.3 -0.3
SSLB		15	42 30.3 +0.3	Pn	15 42 30.3 +0.3
YULB	Yu-li	2.15	218	eP	15 42 00.5 0.0
YULB		15	42 30.6 -0.7	Sn	15 42 30.6 -0.7
WHYT	Xinyi Township	2.21	231	eP	15 42 03.0 +0.9
WHYT		15	42 32.3 +0.6	Pn	15 42 32.3 +0.6
CHKH	Chengggong	2.26	213	eP	15 42 02.1 -0.5
CHKH		15	42 32.8 eP	Pn	15 42 32.8 eP
ALS	Alidan	2.36	228	eP	15 42 04.4 +0.3
ALS		15	42 33.4 0.0	Sn	15 42 33.4 0.0
EHD	Haiduan	2.39	216	eP	15 42 05.1 +0.9
EHD		15	42 05.1 +0.9	Pn	15 42 05.1 +0.9
CHNS	Tsauling	2.39	232	eP	15 42 04.5 +0.3
CHNS		15	42 36.4 -0.1	Sn	15 42 36.4 -0.1
EDH	Donghe	2.49	212	eP	15 42 04.5 -0.7
EDH		15	42 04.5 -0.7	Pn	15 42 04.5 -0.7

INMG 21 15:49:05.6: 1.5, 38°14'N, 26°52'W, h5km, ML3.7, Error  
 ellipse: s-maj=6.1km s-min=1.5km az=34.0,  
 #DIST\_RANGE: LOCAL #IPMA\_REGION: Fossa de  
 Hirondele

SVSA 21 15:49:05.6: 1.5, 38°14'N, 26°52'W, h5km, ML3.7(INMG),  
 Error ellipse: s-maj=6.1km s-min=1.5km az=34.0,  
 #DIST\_RANGE: LOCAL #IPMA\_REGION: Fossa de  
 Hirondele

ISC 21 15:49:01.1±0.7, 38.08N±0.07×26.57W±0.05, h10km, n65,  
 c1534/121, Azores Islands

Code	Station Name	Δ°</
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Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include CALA, Caldeira, Cedros, etc.

IDC 21 15:53:10.0±1.8, 50°76'N:175°47'E, h0km, mb3.4/6, mbtmp3.5/8, ML3.0/2, MS2.0/1, Error ellipse: s-maj=40.9km s-min=22.5km az=10.0

NEIC 21 15:53:11.0±1.3, 50°69'N:175°35'E, h1.8km, 7km, mb3.8/31, ML3.5/6, ML3.0(AEIC), Error ellipse: s-maj=16.6km s-min=8.0km az=200.0

AEIC 21 15:53:11.2±2.1, 50°44'N:170°32'E, h2km, 7km, Error ellipse: s-maj=14.9km s-min=8.5km az=197.0

ISC 21 15:53:09.8±0.9, 50°50'N:175°38'E, h10km, n65, r1544/66, mb3.8/17, R1.15

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include SHEM, SMY, LSNW, LSSE, LSPA, AMKA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include ADAG, GSKC, ATKA, PETK, MAPS, UNV, LVA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include N14K, M14K, O15K, N15K, K13K, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include O18K, L19K, H17K, CNPM, J20K, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include RND, I23K, E22K, ILAR, PAX, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include YKA, KURBB, MKAR, BVAR, TXAR.

IDC 21 15:53:55.3±1.1, 30°89'S:177°81'W, h0km, mb4.0/4, mbtmp4.1/5, ML3.0/1, MS3.2/1, Error ellipse: s-maj=32.2km s-min=20.8km az=103.0

NEIC 21 15:54:00.1±0.7, 30°72'S:178°2'W, h35km, 2km, mb4.4/10, Error ellipse: s-maj=23.7km s-min=9.5km az=258.0

ISC 21 15:54:00.7±0.8, 30°69'S:177°17'W, h46km, n31, r177/27, mb4.3/9, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include RAO, RAO, RAO, RAO, URZ, URZ, NIUE, DZM, SANVU, TOO, CTAA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include STKA, STKA, BBOO, BBOO, AS31, ASAR, WRR, WRA, WBO, WBD, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include KNRA, QSPA, QSPA, QSPA, H03S2, H03S1, H03S3, H03N3, H03N2, H03N1, etc.

IDC 21 15:58:29.1±3.2, 24°05'S:139°06'E, h0km, mb3.2/3, mbtmp3.3/4, ML2.8/1, MS3.9/1, Error ellipse: s-maj=125.2km s-min=30.7km az=90.0, Near north coast of Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include WRA, FITZ, ASAR, PSI, MKAR.

IDC 21 16:05:44.8±3.2, 29°72'S:177°99'W, h0km, mb3.5/3, mbtmp3.5/3, Error ellipse: s-maj=91.3km s-min=39.8km az=39.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include ASAR, WRA, QSPA, FINES.

IDC 21 16:06:23.3±1.1, 29°37'S:177°95'W, h0km, mb3.8/4, mbtmp3.8/4, Error ellipse: s-maj=18.3km s-min=14.6km az=174.0

ISC 21 16:06:22.7±3.2, 29°17'S:177°7'W, h30km, n6, r0543/5, mb3.8/4, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include RAO, STKA, ASAR, WRA, QSPA, FINES.

2.6mm, 1.0s, baz=54, slow=2.4, SNR=1.6

IDC 21 16:27:16.3±1.1, 48°92'S:124°06'E, h0km, mb3.9/6, mbtmp4.0/7, ML2.7/1, MS3.7/19, Error ellipse: s-maj=49.0km s-min=19.3km az=102.0

ISC 21 16:27:17.8±1.0, 48°93'S:124°1'E, h30km, n27, r0517/17, mb3.9/6, MS3.7/18, Western Indian-Antarctic Ridge

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include H01W1, H01W2, H01W3, NWA0, NWA0, STKA, STKA, ASAR, WRA, FITZ, Vnda, RPZ, BATI, QSPA, QSPA, KAPI, HNR, SNA4, SNA4, DAV, H08S2, H08S1, H08S3, PMSA, PALK, CMAR, CMAR, LBTB, BRDH, TSMU, PLCA.

IDC 21 16:35:11.8±1.5, 30°69'S:177°77'W, h0km, mb3.7/3, mbtmp3.7/3, Error ellipse: s-maj=40.9km s-min=21.2km az=89.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include RAO, RAO, RAO, ASAR, WRA, FITZ, Vnda, RPZ, BATI, QSPA, QSPA, KAPI, HNR, SNA4, SNA4, DAV, H08S2, H08S1, H08S3, PMSA, PALK, CMAR, CMAR, LBTB, BRDH, TSMU, PLCA.

IDC 21 16:42:22.7±1.7, 25°81'N:95°97'E, h130km, ML4.2, MW4.1, R4.4(NEIC)

BUI 21 16:42:23.4, 25°94'N:95°89'E, h115km, mb4.5/7, mb4.4/26

IDC 21 16:42:24.4±1.6, 25°72'N:95°87'E, h130km, 15km, mb3.6/22, mbtmp4.0/24, Error ellipse: s-maj=14.8km s-min=10.6km az=56.0

NEIC 21 16:42:25.1±2.0, 25°81'N:101°95'E, h10km, 10km, mb4.2/13, Error ellipse: s-maj=17.2km s-min=11.6km az=51.0

ISC 21 16:42:24.5±0.5, 25°79'N:101°95'E, h04, h133km, n54, r1949/63, mb4.1/31, Myanmar-India border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include IMP, IMP, IMP, ZIRO, ZIRO, ZIRO, TENG, TENG, TENG, TENG, AZL, AZL, AZL, TAWA, TAWA, TAWA, BRDH, BRDH, PZH, PZH, PZH, PZH, PZH, LSA, LSA, LSA, GTK, GTK, GTK.

IDC 21 16:42:24.5±0.5, 25°79'N:101°95'E, h04, h133km, n54, r1949/63, mb4.1/31, Myanmar-India border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include IMP, IMP, IMP, ZIRO, ZIRO, ZIRO, TENG, TENG, TENG, TENG, AZL, AZL, AZL, TAWA, TAWA, TAWA, BRDH, BRDH, PZH, PZH, PZH, PZH, PZH, LSA, LSA, LSA, GTK, GTK, GTK.

IDC 21 16:42:24.5±0.5, 25°79'N:101°95'E, h04, h133km, n54, r1949/63, mb4.1/31, Myanmar-India border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include IMP, IMP, IMP, ZIRO, ZIRO, ZIRO, TENG, TENG, TENG, TENG, AZL, AZL, AZL, TAWA, TAWA, TAWA, BRDH, BRDH, PZH, PZH, PZH, PZH, PZH, LSA, LSA, LSA, GTK, GTK, GTK.

IDC 21 16:42:24.5±0.5, 25°79'N:101°95'E, h04, h133km, n54, r1949/63, mb4.1/31, Myanmar-India border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include IMP, IMP, IMP, ZIRO, ZIRO, ZIRO, TENG, TENG, TENG, TENG, AZL, AZL, AZL, TAWA, TAWA, TAWA, BRDH, BRDH, PZH, PZH, PZH, PZH, PZH, LSA, LSA, LSA, GTK, GTK, GTK.

IDC 21 16:42:24.5±0.5, 25°79'N:101°95'E, h04, h133km, n54, r1949/63, mb4.1/31, Myanmar-India border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s, ISC. Rows include IMP, IMP, IMP, ZIRO, ZIRO, ZIRO, TENG, TENG, TENG, TENG, AZL, AZL, AZL, TAWA, TAWA, TAWA, BRDH, BRDH, PZH, PZH, PZH, PZH, PZH, LSA, LSA, LSA, GTK, GTK, GTK.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC, h, m, s, ISC, P, Q, R, S, T, U, V, W, X, Y, Z. Includes stations like CHIANG MAI, EVN Everest, GOMU GeErMu, GTA Gaotai, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC, h, m, s, ISC, P, Q, R, S, T, U, V, W, X, Y, Z. Includes stations like TGIG, PETF Flores, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res, ISC, h, m, s, ISC, P, Q, R, S, T, U, V, W, X, Y, Z. Includes stations like H03S3 Juan Fernandez, H03N3 Juan Fernandez, H03N2 Juan Fernandez, etc.

21d 17h

Table with columns: Code, Station Name, Az, Az', Time, Res. Includes entries like H03S2 Juan Fernandez, H03S1 Juan Fernandez, H03S3 Juan Fernandez, etc.

NEIC 21 17:09:41.9, 1.5, 55.70N, 0.08, 149.2W, 0.1, h8km, 6km, ML3, 7/60, ML3.5(AEIC), Error ellipse: s-maj=12.2km, s-min=9.2km, az=160.0.

Main table with columns: Code, Station Name, Az, Az', Time, Res. Includes entries like OHAK Old Harbor, OHAK Old Harbor, KDAD Kodiak Island, etc.

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Main table with columns: GLI, Station Name, Time, Res. Includes entries like GLI Glacier Island, GLI Glacier Island, HMT Hamilton, etc.

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Main table with columns: Code, Station Name, Time, Res. Includes entries like H11S2 WAKE ISLAND Hy, H11S3 WAKE ISLAND Hy, ARCES ARCES Array B, etc.

MEX 21 17:17:11.7, 0.7, 14.47N, 92.65W, h49km, 14km, MD4.2, GCG 21 17:17:11.7, 1.4, 14.43N, 92.47W, h54km, 13km, MD4.3, ML4.4.

CATAC 21 17:17:12.2, 0.8, 14.1N, 92.92W, h15km, 4km, M4, 4/9, ML4.4, 9/9, Error ellipse: s-maj=9.7km, s-min=9.3km, az=97.8, confirmed.

SNET 21 17:17:13.5, 1.5, 14.69N, 92.27W, h111km, 66km, ML4.3, ISC 21 17:17:09.1, 1.4, 14.43N, 0.05, 92.68W, 0.03, h8km, 10km, n63, e297/96, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Time, Res. Includes entries like THIG Station Name, THIG Station Name, THIG Station Name, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Huajuapán de L, Fresnillo de T, Jalcomulco, Tlapa, Popocatepetl, etc.

19C 21 17:19:16.8, 1.2, 27.27N, 130.40E, h0km, mb3.5/7, mbtmp3.5/8, ML3.5/1, MS3.9/2, Error ellipse: s-maj=34.4km s-min=19.5km az=81.0

JMA 21 17:19:19.1, 0.1, 27.22N, 130.30E, 0.7, h82km, MV3.1/20, NCAR AMAMI-OISHIMA ISLAND

ISC 21 17:19:20.8, 2.3, 27.23N, 130.04, h31km, 18km, n26, c1807/37, mb3.5/7, Ryukyu Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Kikaisima, Amami Oshima, Tokunoshima, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Kurchatov Arra, Warramunga Arr, Alice Springs, etc.

19C 21 17:29:50.4, 7.4, 30.39S, 177.84W, h0km, mb3.2/2, mbtmp3.2/2, Error ellipse: s-maj=307.3km s-min=62.6km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Alice Springs, Warramunga Arr, FINESS Array B, etc.

19C 21 17:37:36.4, 8.9, 30.36S, 177.92W, h0km, mb3.6/2, mbtmp3.6/2, Error ellipse: s-maj=378.1km s-min=61.8km az=155.0, Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Alice Springs, Warramunga Arr, FINESS Array B, etc.

19C 21 17:43:45.8, 1.4, 31.62S, 178.62W, h0km, mb4.0/3, mbtmp4.0/5, ML3.7/2, Error ellipse: s-maj=36.6km s-min=22.4km az=105.0

ISC 21 17:43:49.8, 1.9, 31.75S, 178.50W, 0.4, h35km, n9, c125/7, mb4.0/3, Kermadec Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Raoul Island, Urewera, Alice Springs, etc.

1.9nm, 1.0s, baz=35, slow=3.4, SNR=4.9

19C 21 17:57:11.9, 2.1, 33.64S, 179.98W, h0km, mb4.2/4, mbtmp4.3/5, ML4.0/1, MS3.6/1, Error ellipse: s-maj=51.3km s-min=29.2km az=55.0

WEL 21 17:57:20.9, 1.0, 34.51S, 179.91E, h33km, M4.4/9, mB5.0/1, ML4.5/17, MLv4.4/9, Mw(mB)4.3/1, Error ellipse: s-maj=10.2km s-min=6.6km az=83.1, confirmed

ISC 21 17:57:19.2, 1.4, 33.86S, 179.93E, 0.1, h35km, n36, c2541/43, mb4.2/4, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Matakaoa Point, Waioamatatini S, Te Kaha, Pakihiroa, etc.

19C 21 17:57:20.9, 1.0, 34.51S, 179.91E, h33km, M4.4/9, mB5.0/1, ML4.5/17, MLv4.4/9, Mw(mB)4.3/1, Error ellipse: s-maj=10.2km s-min=6.6km az=83.1, confirmed

ISC 21 17:57:19.2, 1.4, 33.86S, 179.93E, 0.1, h35km, n36, c2541/43, mb4.2/4, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Urewera, Alice Springs, Warramunga Arr, etc.

19C 21 18:14:31.8, 1.7, 21.56N, 143.35E, h292km, 16km, mb3.5/16, mbtmp4.2/19, Error ellipse: s-maj=17.7km s-min=9.8km az=82.0

NEIC 21 18:14:33.4, 1.0, 21.59N, 143.23E, 0.2, h301km, 6km, mb4.0/31, Error ellipse: s-maj=21.4km s-min=11.1km az=85.0

ISC 21 18:14:32.8, 0.5, 21.58N, 143.23E, 0.1, h300km, n63, c0583/67, mb3.9/32, Mariana Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Chichijima, Pakihiroa, Te Kaha, etc.

19C 21 18:14:32.8, 0.5, 21.58N, 143.23E, 0.1, h300km, n63, c0583/67, mb3.9/32, Mariana Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Urewera, Alice Springs, Warramunga Arr, etc.

comp=2.3, 2nm, 0.2s

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like FITZ, KULM, ASAR, etc.

19C 21 18:22:49.1, 4.3, 34.51S, 179.98W, h0km, mb4.2/2, Error ellipse: s-maj=13.2km s-min=7.0km az=125.2, confirmed, South of Kermadec Islands

WEL 21 18:22:49.1, 4.3, 34.51S, 179.98W, h0km, mb4.2/2, Error ellipse: s-maj=13.2km s-min=7.0km az=125.2, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Kurchatov Arra, Warramunga Arr, Alice Springs, etc.

19C 21 18:22:49.1, 4.3, 34.51S, 179.98W, h0km, mb4.2/2, Error ellipse: s-maj=13.2km s-min=7.0km az=125.2, confirmed, South of Kermadec Islands

WEL 21 18:22:49.1, 4.3, 34.51S, 179.98W, h0km, mb4.2/2, Error ellipse: s-maj=13.2km s-min=7.0km az=125.2, confirmed, South of Kermadec Islands

NEIC 21 19:02:44.2, 1.8, 75.27N, 0.08, 7.6E, 0.3, h10km, 1km, mb4.6/37, Error ellipse: s-maj=13.2km s-min=11.9km az=196.0

19C 21 19:02:45.6, 0.5, 75.47N, 7.68E, h0km, mb3.9/23, mbtmp4.0/28, ML2.8/3, MS3.6/49, Error ellipse: s-maj=12.0km s-min=9.0km az=77.0

NAO 21 19:02:46.9, 1.3, 75.60N, 8.01E, h4km, 11km, ML4.4

DNK 21 19:02:47.6, 3.6, 75.46N, 7.55E, h36km, 41km, ML2.2

BER 21 19:02:47.1, 3.6, 75.56N, 7.24E, h10km, Mw4.5, ML4.4(N/AO), Confirmed Earthquake

GCMT 21 19:02:49.0, 2.0, 75.51N, 8.04E, 3.0E, 0.1, h17km, 1km, Mw4.7/76, Moment Tensor Solution, s8, c10, s76, c103, Duration: 0.8, Best double couple: Scale: 0.19Nm, Mo: 9.5E+10; Mm: 0.03E+07; Ml: 0.91E+07; Mw: 0.22E+20; Mw: 0.56E+04; Ms: 0.46E+16; Moment tensor couple: Mo: 2.1700E+10

NP1: 0.2290000, 0.8430000, -0.5200000; NP2: 0.3030000, 0.8580000, -0.1200000; Principal axes: T 1.2290, Plg8.0000, Azm113.0000; N -0.0250, Plg25.0000, Azm19.0000; P -1.2040, Plg64.0000, Azm220.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rater function

FCIAR 21 19:02:50.0, 75.61N, 8.39E, h10km

KOLA 21 19:02:51.2, 75.48N, 9.19E, h0km, ML2.9, Error ellipse: s-maj=56.0km s-min=26.4km az=20.0, Greenland

ISC 21 19:02:46.8, 0.4, 75.57N, 0.04, 8.37E, 0.05, h10km, n401, c265/385, mb4.5/3, MS3.6/47, 3C-2D, Greenland Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like Kurchatov Arra, Warramunga Arr, Alice Springs, etc.

21d 19h

Table with columns for station code, name, frequency, and other details. Includes stations like BRBA Barentsburg A, SPAA Spitsbergen Ar, and various other locations.

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Table with columns for station code, name, frequency, and other details. Includes stations like LSH Leshukonskoye, PABE Paberze, and various other locations.

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Table with columns for station code, name, frequency, and other details. Includes stations like TOLK Toolik Lake Re, ZALV Zalesovo Ba, and various other locations.



GNI	baz=11	39.06 134	LR	19 27 08.1
TNA	comp=Z,81nm,21.7s,baz=348,slow=37	39.09 358	P	19 10 14.8 +1.5
DAWY	baz=19	39.09 338	P	19 10 15.4 +2.0
K29M	baz=13	39.12 337	P	19 10 16.1 +2.2
G16K	baz=14	39.15 354	P	19 10 16.4 +2.5
F14K	baz=2.5	39.15 356	P	19 10 16.5 +2.6
H18K	comp=Z,154nm,18.9s,baz=102,slow=37	39.26 351	P	19 10 17.4 +2.6
NEA2	baz=5.7	39.33 345	P	19 10 17.4 +1.9
K27K	baz=9.3	39.36 340	P	19 10 17.8 +2.1
HDA	baz=12	39.37 343	P	19 10 18.1 +2.3
H17K	baz=10	39.53 352	P	19 10 20.5 +3.4
SCRK	baz=5.1	39.57 341	P	19 10 20.2 +2.6
G15K	baz=11	39.59 355	P	19 10 21.1 +3.6
GC5A	baz=3.4	39.60 350	P	19 10 21.6 +4.0
MMPY	baz=6.2	39.64 332	P	19 10 20.3 +2.2
SEY	baz=16	39.82 25	P	19 10 21.2 +1.7
RIDG	comp=Z,2.8nm,1.0s,baz=24,slow=7,SNR=5.8	39.88 342	P	19 10 22.5 +2.5
K24K	baz=11	39.88 342	P	19 10 22.3 +2.2
H16K	baz=10	39.90 354	P	19 10 24.1 +4.0
L29M	baz=11	39.90 337	P	19 10 22.2 +2.0
KEST	baz=13	39.93 179	LR	19 27 17.1
BPAW	comp=Z,40nm,19.2s,baz=287,slow=37	39.95 346	P	19 10 23.9 +3.4
J20K	baz=8.5	40.05 348	P	19 10 25.0 +3.6
ANM	baz=7.2	40.05 356	P	19 10 25.3 +3.9
CHUM	baz=2.9	40.24 347	P	19 10 25.8 +2.8
FARO	baz=7.9	40.26 333	P	19 10 25.5 +2.3
L27K	baz=15	40.29 340	P	19 10 26.1 +2.6
J19K	baz=12,SNR=5.7	40.30 349	P	19 10 26.5 +3.0
TRF	baz=6	40.55 345	P	19 10 28.9 +3.2
M29M	baz=13	40.59 337	P	19 10 27.9 +1.9
PAX	baz=10	40.69 342	P	19 10 29.2 +2.5
CAST	baz=10	40.69 347	P	19 10 29.2 -1.5
CAST	comp=Z,20nm,1.3s	40.69 347	Iamb Iamb	19 10 30.2 +3.5
DHY	baz=7.9	40.72 343	P	19 10 29.6 +2.4
K20K	baz=9.7	40.86 348	P	19 10 30.6 +2.5
J18K	baz=7.2	40.88 350	P	19 10 31.1 +2.8
GAMB	baz=6.2	40.90 0	P	19 10 31.8 +3.5
M27K	baz=0	40.99 339	P	19 10 31.8 +2.4
J17K	baz=12	41.04 351	P	19 10 32.9 +3.3
M26K	baz=5,SNR=5.7	41.05 340	P	19 10 32.3 +2.6
WAT1	baz=11	41.05 344	P	19 10 32.1 +2.4
J16K	baz=9	41.21 352	P	19 10 34.9 +4.0
PPLA	baz=4.6	41.21 347	P	19 10 34.5 +3.3
MAKZ	baz=7.8	41.22 90	P	19 10 30.8 -0.6
HARP	baz=11	41.23 342	P	19 10 34.0 +2.9
N31M	baz=10	41.25 335	P	19 10 33.6 +2.2
MKAR	baz=14	41.31 90	P	19 10 34.2 +2.2
N30M	comp=Z,2.3nm,0.8s,baz=352,slow=7.4,SNR=21	41.42 336	P	19 10 35.0 +2.2
YU3K	baz=13	41.44 338	P	19 10 35.4 +2.3
M24K	baz=12	41.59 342	P	19 10 36.9 +2.7
YU4K	baz=9	41.69 337	P	19 10 36.5 +1.4
K17K	baz=13	41.69 351	P	19 10 38.1 +3.1
L20K	baz=5.5	41.72 348	P	19 10 37.8 +2.5
J14K	baz=7.1,SNR=5.4	41.83 354	P	19 10 38.9 +2.9
SCM	baz=3.5	41.95 343	P	19 10 39.4 +2.2
WHY	baz=9.4	41.96 334	P	19 10 39.1 +1.8
O30N	baz=14	41.99 335	P	19 10 39.1 +1.7
SML	baz=13	42.05 344	P	19 10 39.2 +1.2
YU6K	baz=9.1	42.05 336	P	19 10 39.9 +1.7
L19K	baz=12	42.07 348	P	19 10 40.7 +2.6
HYT	baz=6.7	42.08 336	P	19 10 39.9 +1.6
SKT	baz=13	42.09 346	P	19 10 39.9 +1.7
L18K	baz=7.9	42.12 350	P	19 10 37.9 -0.5
L18K	comp=Z,20nm,1.4s	42.12 350	Iamb Iamb	19 10 41.0 +2.5
P33M	baz=6.0	42.17 332	P	19 10 40.1 +1.2
KLU	baz=14	42.18 342	P	19 10 40.6 +1.5
K15K	baz=9.9	42.23 353	P	19 10 43.4 +4.1
L17K	baz=4.2	42.27 351	P	19 10 43.5 +3.8
M20K	baz=5.4	42.28 347	P	19 10 42.5 +2.6
CTG	baz=7.3	42.32 339	P	19 10 42.2 +2.0
O28M	baz=11	42.32 338	P	19 10 41.4 +0.4
TOAD	baz=12	42.52 326	P	19 10 42.6 +0.8
SUA	baz=16	42.55 345	P	19 10 45.0 +2.9
BMRM	baz=8.1	42.60 341	P	19 10 43.9 +1.5
K13K	baz=10	42.67 355	P	19 10 46.2 +3.3
O29M	baz=10	42.70 336	P	19 10 45.2 +1.9
P30M	baz=12	42.71 335	P	19 10 44.5 +1.1
R33M	baz=13	42.74 331	P	19 10 44.7 +1.0
L16K	baz=15	42.74 352	P	19 10 46.6 +3.1
M18K	baz=4.9	42.81 349	P	19 10 47.1 +3.1
L15K	baz=6.3	42.85 353	P	19 10 48.0 +3.7
RC01	baz=4.2	42.86 345	P	19 10 47.5 +3.1

P32M	Atin	42.88 333	P	19 10 46.0 +1.3
GLI	baz=14	42.88 343	P	19 10 47.5 +2.9
MA2	baz=9.4	42.93 27	LR	19 30 27.2
M17K	comp=Z,31nm,18.7s,baz=314,slow=39	42.97 350	P	19 10 48.1 +2.7
PWL	baz=5.7	42.99 344	P	19 10 48.4 +2.7
PINM	baz=12	43.07 338	P	19 10 48.4 +2.1
MESA	baz=12	43.15 339	P	19 10 48.6 +1.5
L14K	baz=3.7	43.22 354	P	19 10 49.4 +2.1
AAK	baz=10	43.26 100	LR	19 30 26.0
PLBC	comp=Z,95nm,19.6s,baz=336,slow=38	43.30 335	P	19 10 48.3 +0.3
Q32M	baz=13	43.32 331	P	19 10 49.6 +1.2
PNL	baz=14	43.41 337	P	19 10 51.2 +2.3
M16K	baz=12	43.41 351	P	19 10 53.0 +4.0
N19K	baz=5.0	43.41 351	P	19 10 53.0 +4.0
N19K	baz=5.0	43.41 351	P	19 10 52.0 +2.9
KAIM	baz=10	43.42 348	P	19 10 53.9 +3.3
N18K	baz=10	43.62 349	P	19 10 54.3 +3.6
P23K	baz=9.1	43.78 343	P	19 10 54.9 +3.1
M14K	baz=6.7	43.79 353	P	19 10 56.0 +4.1
M15K	baz=6.9	43.80 352	P	19 10 55.8 +3.8
N17K	baz=4.4	43.84 350	P	19 10 52.3 0.0
N17K	comp=Z,23nm,1.4s	43.84 350	Iamb Iamb	19 11 04.9
N17K	baz=5.7,SNR=5.9	43.84 350	P	19 10 56.2 +3.9
O20K	baz=7.2	44.04 346	P	19 10 57.0 +2.9
M13K	baz=7.2	44.17 354	P	19 10 59.0 +4.0
M11K	baz=3.4	44.26 356	P	19 10 59.7 +4.1
R32K	baz=2.3	44.26 333	P	19 10 57.4 +1.7
Q23K	baz=13	44.26 342	P	19 10 57.7 +2.0
BRSE	baz=9.4	44.27 345	P	19 10 58.2 +2.4
O18K	baz=7	44.41 348	P	19 11 00.3 +3.3
MMAI	baz=6.3	44.55 147	LR	19 29 22.9
O17K	comp=Z,19.3nm,19.3s,baz=348,slow=36	44.58 350	P	19 11 00.9 +2.6
N14K	baz=5.6	44.61 353	P	19 11 01.0 +2.6
S31K	baz=4.0	44.76 334	P	19 11 01.0 +1.4
O16K	baz=12	44.76 334	P	19 11 03.0 +2.9
P18K	baz=5.2	44.88 348	P	19 11 03.4 +2.7
S32K	baz=6.2	45.05 333	P	19 11 03.4 +1.4
P17K	baz=13	45.13 349	P	19 11 05.4 +2.7
ULM	baz=5	45.36 299	LR	19 30 45.2
P16K	comp=Z,176nm,18.0s,baz=269,slow=37	45.37 350	P	19 11 06.7 +2.2
WMQ	baz=7	45.45 87	eP	19 11 06.9 +1.4
WMQ	comp=N,240nm,14.3s		LR	
Q20K	comp=Z,140nm,19.5s	45.50 346	P	19 11 07.2 +1.6
SIT	baz=7.2	45.54 333	P	19 11 06.7 +0.8
ASF	baz=13	45.59 145	LR	19 32 27.7
U33K	comp=Z,39nm,18.2s,baz=58,slow=39	46.21 331	P	19 11 13.9 +2.7
SONM	baz=13	46.23 67	P	19 11 13.7 +2.0
SONM	comp=Z,1.1nm,0.8s,baz=333,slow=8.5,SNR=5.8		LR	19 34 13.5
KDAK	comp=Z,56nm,18.8s,baz=192,slow=41	46.33 346	LR	19 32 51.5
KDAK	comp=Z,2.7nm,19.3s,baz=51,slow=39	46.33 346	P	19 11 15.7 +3.5
KSH	baz=7.0	46.58 100	P	19 11 19.8 +5.3
KSH	baz=12	46.58 100	pP	19 11 25.9 +5.8
SADO	comp=Z,2.0nm,0.7s	46.59 282	LR	19 31 32.1
CRAG	comp=Z,92nm,19.0s,baz=311,slow=37	46.84 331	P	19 11 17.9 +1.8
EIL	baz=13	47.79 148	LR	19 32 36.4
HEH	comp=Z,47nm,19.7s,baz=276,slow=38	48.38 49	eP	19 11 31.3 +3.1
BBB	baz=6	49.39 326	LR	19 31 31.3
PETK	baz=12	50.03 24	P	19 11 42.8 +1.9
KLR	comp=Z,0.7nm,0.8s	50.16 45	LR	19 34 57.1
NEW	comp=Z,53nm,18.3s,baz=332,slow=38	51.47 316	LR	19 33 07.9
OVMT	comp=Z,103nm,20.2s,baz=8.5,slow=35	51.88 312	P	19 11 52.5 -2.5
MSO	baz=13	52.28 313	Iamb	19 12 06.4
GTA	comp=Z,7.7nm,0.9s	52.61 77	eP	19 12 02.6 +2.1
GTA	baz=10	52.61 77	pP	19 12 10.4 +4.2
YHL	comp=Z,5.0nm,1.0s	53.67 310	P	19 12 05.8 -2.6
MCMT	baz=9	54.01 311	P	19 12 08.6 -2.2
HHC	baz=10	54.03 66	eP	19 12 08.3 -2.6
HHC	comp=Z,10.0nm,0.7s		pmax	
CN2	comp=Z,53nm,4.3s	54.19 53	eP	19 12 13.4 +1.5
CN2	baz=10	54.19 53	eS	19 10 40.1 -8.3
CN2	comp=Z,10.0nm,0.5s		pmax	
CN2	comp=Z,100nm,3.0s		pmax	
CN2	comp=N,200nm,11.0s		LR	
CN2	comp=E,300nm,11.0s		LR	
FXWY	comp=Z,200nm,11.0s	54.80 309	P	19 12 14.3 -2.3
USRK	baz=11	55.06 47	P	19 12 25.7
USRK	comp=Z,4.1nm,1.1s	55.06 47	P	19 12 19.9 +1.7
PDAR	comp=Z,1.9nm,0.7s,baz=316,slow=4.0,SNR=3.4	55.36 308	P	19 12 19.9 -0.7
PDAR	comp=Z,0.8nm,0.8s,baz=22=5.3,SNR=7.5		LR	19 36 15.0
TKL	comp=Z,81nm,19.6s,baz=358,slow=36	56.34 282	LR	19 35 36.4
LZH	comp=Z,4.0nm,19.8s,baz=38,slow=35	56.75 75	eP	19 12 33.8 +3.2
ASAJ	baz=13	56.94 38	LR	19 39 20.6

Q20A	White River Ci	57.63 306	P	19 12 33.7 -3.0
ELK	Elko	58.40 312	LR	19 38 22.9
MSA	comp=Z,102nm,18.7s,baz=14,slow=37	59.69 89	P	19 12 56.1
L5A	L5A	59.69 89	Iamb	19 12 56.1
MVCO	comp=Z,3.4nm,0.7s	60.50 305	P	19 12 54.6 -2.1
NVAR	comp=Z,0.2nm,0.3s,baz=20,slow=6.4,SNR=1.7	61.21 314	P	19 13 01.0 -0.5
NVAR	comp=Z,60nm,18.4s,baz=96,slow=37		LR	19 40 04.7
ANMO	Albuquerque	62.26 303	LR	19 41 05.8
TORD	comp=Z,154nm,18.9s,baz=102,slow=37	62.52 187	P	19 13 09.8 -0.5
MJAR	comp=Z,53nm,0.3s,baz=3.0,slow=8.2,SNR=1.5	63.61 44	P	19 13 19.0 +1.7
MJAR	comp=Z,1.8nm,0.9s,baz=351,slow=6.4,SNR=5.7		LR	19 41 24.7
NJ2	comp=Z,51nm,21.0s,baz=308,slow=36	64.10 62	eP	19 13 18.8 -1.8
NJ2	comp=Z,1.8nm,0.9s		pmax	
MNHN	comp=Z,7.4nm,1.0s	64.93 298	P	19 13 23.4 -2.8
MNHN	baz=10	65.39 80	Iamb	19 13 34.0
PZH	comp=Z,10.0nm,0.5s		pmax	
PZH	comp=Z,1.0nm,0.5s		pmax	
PFO	comp=Z,59nm,19.1s,baz=182,slow=35	65.55 311	LR	19 41 21.6
VHRN	comp=Z,5.9nm,19.1s,baz=182,slow=35	65.95 300	Iamb	19 13 30.4 -2.4
VHRN	comp=Z,1.8nm,0.9s		Iamb	19 13 41.0
TXAR	comp=Z,6.7nm,0.9s	67.06 298	P	19 13 39.5 -0.4
TXAR	comp=Z,2.3nm,0.7s,baz=56,slow=5.1,SNR=22		LR	19 44 05.7
CMAR	comp=Z,2.3nm,0.7s	72.41 85	P	19 14 14.1 +1.2
CMAR	comp=Z,0.5nm,0.8s,baz=321,slow=7.6,SNR=4.3		P	19 53 26.5
LPIG	comp=Z,32nm,18.7s,baz=325,slow=42	73.55 303	LR	19 47 02.3
CMIG	comp=Z,0.5nm,0.8s	75.35 303	LR	19 53 48.0
JTS	comp=Z,62nm,19.3s,baz=38,slow=36	76.83 287	LR	19 53 27.5
ASAR	comp=Z,5.7nm,18.3s,baz=10,slow=40	80.94 276	LR	19 53 27.5
SNAK	comp=Z,5.6nm,18.3s,baz=28,slow=38	121.33 61	PKP	19 22 39.2 -0.2
SNAK	comp=Z,0.3nm,0.			





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Table with columns: Station Name, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res, Code. Includes stations like Te Kaha, Puketiti, Raukumara Rang, etc.

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Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res, Code. Includes stations like Great Sand Dun, SDCO, T25A, etc.

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Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, Code, Station Name, Az, Az2, Phase ID, Time, Res, Code. Includes stations like Bocatozma Ro, Talagante, Tunca, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like F20K Avaraart Lake, E20K Nigu River, D20K Eivut River, etc.

Code Station Name Azimuth Elevation Azimuth Error Phase ID Time Residual

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like ASAR Alice Springs, WRA Warramunga Arr, QSPA South Pole Qui, etc.

Code Station Name Azimuth Elevation Azimuth Error Phase ID Time Residual

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like H44RU PETROPALOVSK, H45RU USURYSK INFR, H30JU ISUMI INFRASO, etc.

SDD 21 21:55:02.3, 0.6, 18:83N, 65:13W, h31km, 53km, MD3.5, ML2.2, MW2.5

RSPPR 21 21:55:05.0, 18:70N, 65:14W, h69km, 3km, MD2.4/11

NEIC 21 21:55:04.5, 0.8, 18:72N, 0.06:65:09W, 0.09, h3km, 2km, ML2.4/22, Md2.4/11 (RSPPR), 18C-4D, Error ellipse: s-maj=14.2km s-min=10.4km az=97.0, Puerto Rico region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like HUMP Col San Antoni, HUMP Col San Antoni, HUMP Guaynabo City, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like AOPR Arecibo Observ, AOPR Arecibo Observ, AOPR Arecibo Observ, etc.

IDC 21 22:03:11.7, 1.4, 43:03N, 128:44W, h0km, mb3.7/13, mbmp3.6/20, ML3.4/7, MS3.4/23, Error ellipse: s-maj=26.9km s-min=11.4km az=36.0

NEIC 21 22:03:18.8, 2.1, 43:8N, 0.1:127:84W, 0.03, h10km, 2km, ML3.2/82, Error ellipse: s-maj=17.1km s-min=3.8km az=188.0

ISC 21 22:03:15.1, 1.0, 43:81N, 0.08:128:07W, 0.09, h10km, n232, r1979/139, mb3.7/12, MS3.4/17, Off coast of Oregon

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like KEBM Edson Butte, KEBM KEBM, KEBM KEBM, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Phase ID, Time, Residual. Includes stations like BEAVL Fort Liard, P33M Teslin, P29M Windy Craggy, etc.

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Table with columns: ID, Name, Az, El, P, M, Az, El, P, M, Az, El, P, M. Includes entries like G30M Atoh Zraii Nji, H27K Steamboat Moun, PPLA Purkeville, etc.

Table with columns: ID, Name, Az, El, P, M, Az, El, P, M, Az, El, P, M. Includes entries like D19K Kuna River, E18K Tukuphlearik C, B22K Tesekpok Lake, etc.

Table with columns: ID, Name, Az, El, P, M, Az, El, P, M, Az, El, P, M. Includes entries like JYNG EIOS2, EIOS2, EIOS3, etc.

Station information text including coordinates and names: IDC 21 22:19:19.9, 2.0, 37.545; 177.11E, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=51.0km s-min=10.5km az=78.0

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes entries like WSRZ White Island S, WIZ White Island, WHRZ Whale Island, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes entries like I44RU PETROPALOVSK-6.03 35, I45RU USURISYK INFRA 14.44 261, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes entries like WRA Warrunganga Arr 41.01 263, GSPA South Pole Qui 52.59 180, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase, ID, Time, Res, ISC. Includes entries like IDC 21 22:47:48.2, 0.3, 31.965; 178.31W, h0km, mb3.7/3, mbmtmp3.7/4, ML3.2/1, Error ellipse: s-maj=49.9km s-min=38.4km az=69.0, Kermadec Islands region







Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Residual, and other parameters. Includes stations like CONA, RHOU, BHOA, BGES, etc.

NOU 21 23:00:20.9, 31.20S:175.96W, h34km, ML5.0/30, Kermadec Islands Region
BJJ 21 23:00:22.8, 30.96S:177.69W, h7km, mB5.4/11, mb5.0/18, MS4.9/12, MS7.4/6/14
IDC 21 23:00:25.0, 30.61S:177.57W, h0km, mb4.6/16, mbmp4.6/17, ML3.3/1, MS4.4/17, Error ellipse: s-maj=17.3km s-min=14.2km az=86.0
MOS 21 23:00:26.1, 30.71S:177.61W, h11km, mb5.3/30, MS4.7/5, Error ellipse: s-maj=10.8km s-min=8.8km az=81.2
NEIC 21 23:00:28.0, 1.7, 30.64S:0.06E:177.5W:0.1, h10km, 1km, mb5.1/120, Error ellipse: s-maj=18.3km s-min=9.5km az=87.0
GCMT 21 23:00:33.0, 0.4, 30.63S:0.03E:177.15W:0.03, h36km, 1km, MW5.0/72, Moment Tensor Solution, s31.c34, sz7.c87; Duration: 0 Moment tensor: Scale 1016Nm; Mr3.87E+28; Mw=0.7E+18; Mo=3.1E+16; Mo=1.5E+19; Mo=0.09E+12; Mo=2.6E+13; Best double couple: Mo4.63200E+10 1016 NP1.0E+175.00000E+8, 626.00000E+6, 168.00000E+0. NP2: 0E+19.00000E+8, 666.00000E+8, 101.00000E+0. Principal axes: T 5.1320, P1g68.0000E+0, Azm309.0000E+0; N -1.0060, P1g10.0000E+0, Azm195.0000E+0; P -4.1310, P1g20.0000E+0, Azm101.0000E+0; nstai refers to surface waves, cutoff=40s. nstai2 refers to surface waves, cutoff=50s. Triangular moment-rate function.

Table with columns: Code, Station Name, Azimuth, Altitude, Phase ID, Time, Residual, and other parameters. Includes stations like GLKZ, RAO, RAO, RAO, RAO, etc.

Table with columns: DZM, Station Name, Azimuth, Altitude, Phase ID, Time, Residual, and other parameters. Includes stations like Mont Dzumac, Tubuai, Papeete, etc.

Table with columns: FITZ, Station Name, Azimuth, Altitude, Phase ID, Time, Residual, and other parameters. Includes stations like Fitzroy Crossi, KLBRR, NWA0, etc.









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PAHR	Pah Rah Range	79.17	40	I	Amb	P	23 46 46.1	-0.7
PAHR							23 47 00.5	
BII	comp=Z,11nm,0.9s Sitkinak Islet	79.35	11	P	P	P	23 46 46.7	-0.5
SBLOR	Butler Butte	79.37	36	P	P	P	23 46 44.7	+0.9
TPNV	Topopah Spring	79.41	43	P	P	P	23 46 49.2	+1.0
TPNV	Topopah Spring	79.41	43	P	P	P	23 46 49.2	+1.0
TPH	comp=Z,7.0nm,0.9s Tonopah	79.47	42	P	P	P	23 46 49.5	+0.9
TPH	Tonopah	79.47	42	P	P	P	23 46 49.5	+0.9
TPH								
SHRP	comp=Z,34nm,1.0s Sheep Range	79.85	44	P	P	P	23 46 51.3	+0.7
W13A	Huapapai Mount	79.88	46	P	P	P	23 46 50.0	-0.8
J04A	Umpqua Nationa	79.92	36	P	P	P	23 46 50.9	0.0
KSRS	Korea Array	80.13	317	P	P	P	23 46 51.4	-0.5
KSRS	comp=Z,2.5nm,0.7s,baz=134,slow=6.1,SNR=8.9							
KSRS	comp=Z,20nm,20.0s,baz=105,slow=53						00 18 35.3	
OHAK	Old Harbor	80.14	11	P	P	P	23 46 51.8	+0.4
R18K	Karluk	80.26	10	P	P	P	23 46 52.4	+0.4
J05D	Fort Rock, OR	80.42	36	P	P	P	23 46 53.9	+0.3
J05D							23 47 08.3	
PRN	comp=Z,23nm,1.0s Pahroc Range	80.45	44	P	P	P	23 46 53.1	-0.7
R11B	Troy Canyon, C	80.67	43	P	P	P	23 46 55.5	+0.5
Q17K	Contact Creek	80.70	9	P	P	P	23 46 54.6	+0.1
KDAK	Kodiak Island	80.80	11	P	P	P	23 46 55.3	+0.4
PINE	Pine Mountain	80.92	36	P	P	P	23 46 55.9	-0.4
O14K	Tiguykaiuvet M	80.96	6	P	P	P	23 46 56.6	+0.8
Q16K	King Salmon	80.98	9	P	P	P	23 46 56.2	+0.4
O15K	Ungalikihtuk R	81.05	7	P	P	P	23 46 56.6	+0.3
P16K	Nushagak River	81.14	8	P	P	P	23 46 56.9	+0.2
Q18K	Katmai Hardscr	81.20	10	P	P	P	23 46 57.9	+0.6
USHA	Ushuaia	81.27	146	LR	LR	LR	00 20 12.1	
MSHR	Mys Shultsa	81.32	322	eP	P	P	23 46 57.6	-0.5
MSHR								
P17K	Kvichak River	81.51	9	P	P	P	23 46 59.0	+0.3
PSTR	Posyet	81.57	322	eP	P	P	23 47 00.4	+1.0
N14K	Kuskokwak Cree	81.58	6	P	P	P	23 46 59.5	+0.5
Q20K	Shuyak Island	81.61	11	P	P	P	23 46 59.6	+0.3
M11K	Mekoryuk	81.67	4	P	P	P	23 46 59.8	+0.3
O16K	Kokwok River B	81.67	8	P	P	P	23 46 58.7	-0.8
O16K	Kokwok River B	81.67	8	P	P	P	23 46 59.6	+0.1
Q19K	Cape Douglas,	81.69	10	P	P	P	23 47 00.1	+0.4
SPR3	Spring Creek 3	81.84	43	P	P	P	23 47 01.0	-0.4
P18K	Big Mountain,	81.88	9	P	P	P	23 47 00.3	-0.5
P18K							23 47 02.7	
P18K	Big Mountain,	81.88	9	P	P	P	23 47 00.9	+0.1
USAOB	Ussuriysk Arra	81.89	324	P	P	P	23 47 00.8	-0.3
USAOB	Ussuriysk Arra	81.89	324	P	P	P	23 47 00.8	-0.3
USAOB								
USRK	Ussuriysk Ar	81.89	324	P	P	P	23 47 01.2	+0.2
USRK	comp=Z,2.4nm,0.6s,baz=90,slow=10,SNR=5.0						00 19 01.6	
I07A	Dall Lake	81.90	36	P	P	P	23 47 00.1	-1.2
M13K	Dall Lake	81.91	5	P	P	P	23 47 01.5	+0.8
O17K	Koliganek Bris	81.97	8	P	P	P	23 47 01.5	+0.3
N15K	Kwethluk River	81.98	7	P	P	P	23 46 59.7	-1.5
N15K	Kwethluk River	81.98	7	P	P	P	23 47 01.2	-0.1
J08A	Circle Bar Ran	82.01	37	P	P	P	23 47 02.5	+0.6
G06A	Carlson Farm,	82.03	35	P	P	P	23 47 03.1	+1.2
G06A							23 47 15.8	
ESPZ	Base Esperanza	82.32	156	P	P	P	23 47 03.1	0.0
ESPZ							23 47 16.1	
O18K	Koktuh Hills	82.32	9	P	P	P	23 47 02.9	-0.2
O18K							23 47 17.4	
O18K	Koktuh Hills	82.32	9	P	P	P	23 47 03.6	+0.6
M14K	Bethel	82.36	6	P	P	P	23 47 04.0	+0.8
M14K							23 47 08.9	
M14K	Bethel	82.36	6	P	P	P	23 47 03.8	+0.7
M15K	Kasigliuk River	82.44	6	P	P	P	23 47 04.0	+0.4
N16K	Nishlik Lake	82.44	7	P	P	P	23 47 04.0	+0.3
P19K	Oli Pt	82.45	10	P	P	P	23 47 04.8	+1.1
P19K							23 47 05.5	
P19K	Oli Pt	82.45	10	P	P	P	23 47 04.2	+0.5
GNW	Green Mountain	82.47	32	P	P	P	23 47 05.5	+1.5
GNW							23 47 18.6	
D05A	Enumclaw	82.63	33	P	P	P	23 47 06.4	+1.5
N17K	Nushagak Hills	82.69	8	P	P	P	23 47 05.3	+0.4
HOM	Homer	82.73	11	P	P	P	23 47 05.3	+0.2
L14K	Kuka Creek	82.88	5	P	P	P	23 47 07.6	+1.8
M16K	Timber Creek	82.95	7	P	P	P	23 47 07.7	+1.5
O20K	Slope Mountain	82.96	11	P	P	P	23 47 07.4	+1.0
G08A	Pilot Rock	82.97	36	P	P	P	23 47 08.3	+1.4
G08A							23 47 20.9	
BRSE	Bradley Lake S	82.97	12	P	P	P	23 47 07.8	+1.4
N18K	Kilae Creek	83.02	9	P	P	P	23 47 07.4	+0.8
RED	Redoubt Volcan	83.25	10	P	P	P	23 47 08.2	+0.3
RED							23 47 09.8	
K13K	Kusilvak Mount	83.31	4	P	P	P	23 47 09.2	+1.1
K13K							23 47 13.2	
K13K	Kusilvak Mount	83.31	4	P	P	P	23 47 09.1	+1.1
E07A	Sunnyside	83.31	34	P	P	P	23 47 10.3	+1.8
A04D	Lummi Island	83.32	31	P	P	P	23 47 09.9	+1.5
L15K	Ungalak Mounta	83.32	6	P	P	P	23 47 09.2	+1.1
N19K	Bonanza Creek	83.35	9	P	P	P	23 47 09.1	+0.6
N19K							23 47 25.3	
N19K	Bonanza Creek	83.35	9	P	P	P	23 47 09.3	+0.8
HAWA	Hanford	83.37	34	I	Amb	I	23 47 22.9	
NJ2	Nanjing	83.44	308	eP	P	P	23 47 10.0	+0.6
NJ2								
MDJ	Mudanjiang	83.48	323	P	P	P	23 47 10.3	+0.9
MDJ								
M17K	Holitna River	83.50	8	P	P	P	23 47 10.5	+1.4
M17K	Holitna River	83.50	8	P	P	P	23 47 10.8	+1.7
SEW	Seward	83.56	12	P	P	P	23 47 10.2	+0.9
MFID	Camas Ranch	83.56	38	I	Amb	I	23 47 23.9	

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L16K	Owhat River	83.56	7	I	Amb	I	23 47 24.1	
L16K	Owhat River	83.56	7	P	P	P	23 47 10.3	+0.9
Q23K	Middleton Isla	83.58	14	P	P	P	23 47 10.4	+0.9
BMO	Blue Mountains	83.60	37	I	Amb	I	23 47 23.2	
SLKM	Skilak Lake	83.78	11	P	P	P	23 47 11.5	+0.9
M18K	Stony River	83.80	9	P	P	P	23 47 11.5	+0.9
P23K	Montague Islan	83.87	13	P	P	P	23 47 12.0	+1.0
K15K	Wolf Creek Mou	83.92	6	P	P	P	23 47 12.2	+1.0
K15K	Wolf Creek Mou	83.92	6	P	P	P	23 47 12.5	+1.2
CRAQ	Craig	83.97	22	P	P	P	23 47 12.9	+1.4
TMUT	Trail Mountain	84.01	44	P	P	P	23 47 12.3	-0.3
TMUT							23 47 26.8	
N20K	Mount Spurr	84.08	10	P	P	P	23 47 13.5	+1.4
SPCR	Spurr Chakacha	84.08	10	P	P	P	23 47 13.5	+1.4
SPU	Mount Spurr	84.09	10	P	P	P	23 47 13.0	+0.8
SPU							23 47 30.4	
L17K	Donlin	84.11	7	P	P	P	23 47 13.8	+1.6
D08A	Wollman Farm,	84.12	34	P	P	P	23 47 13.5	+0.9
E09A	Wood Farm, Sta	84.19	35	I	Amb	I	23 47 14.0	+1.0
E09A							23 47 26.5	
J14K	Nanvaranak Lak	84.20	5	P	P	P	23 47 12.9	+0.3
J14K							23 47 15.7	
J14K	Nanvaranak La	84.20	5	P	P	P	23 47 13.8	+1.3
TXAR	Lajitas Array	84.27	56	P	P	P	23 47 15.3	+1.4
TXAR	comp=Z,1.9nm,1.0s,baz=212,slow=6.9,SNR=6.5						00 18 23.7	
SRU	San Rafael Ser	84.35	44	P	P	P	23 47 15.4	+1.2
SRU	San Rafael Ser	84.35	44	P	P	P	23 47 15.4	+1.2
SRU								
L18K	Granite Mounta	84.39	8	I	Amb	I	23 47 14.2	+0.6
L18K							23 47 28.7	
L18K	Granite Mounta	84.39	8	P	P	P	23 47 14.6	+1.0
V35K	Ketchikan	84.40	23	P	P	P	23 47 14.9	+1.1
M19K	Big River Lodg	84.41	9	P	P	P	23 47 14.4	+0.6
RC01	Rabbit Creek A	84.41	11	P	P	P	23 47 13.5	-0.3
RC01							23 47 26.4	
RC01	Rabbit Creek A	84.41	11	P	P	P	23 47 14.9	+1.1
STLK	Brandline Lak	84.42	10	P	P	P	23 47 12.8	-1.1
STLK							23 47 26.5	
KAIM	Kayak Island	84.47	14	P	P	P	23 47 15.7	+1.7
KAIM	Kayak Island	84.47	14	P	P	P	23 47 15.1	+1.0
PWL	Port Wells	84.47	12	P	P	P	23 47 15.1	+1.0
HLID	Hailey	84.47	39	I	Amb	I	23 47 28.3	
PLID	Pearl Lake	84.48	37	I	Amb	I	23 47 28.2	
U33K	Whale Pass	84.49	22	P	P	P	23 47 15.3	+1.1
SIT	Sitka	84.52	20	P	P	P	23 47 15.4	+1.1
M20K	Styx River							

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1306

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Drift, Elevation Drift, Azimuth Trend, Elevation Trend, Azimuth Offset, Elevation Offset, Azimuth Scale, Elevation Scale, Azimuth Offset Error, Elevation Offset Error, Azimuth Scale Error, Elevation Scale Error, Azimuth Offset Rate, Elevation Offset Rate, Azimuth Scale Rate, Elevation Scale Rate, Azimuth Offset Trend, Elevation Offset Trend, Azimuth Scale Trend, Elevation Scale Trend, Azimuth Offset Bias, Elevation Offset Bias, Azimuth Scale Bias, Elevation Scale Bias, Azimuth Offset Drift, Elevation Offset Drift, Azimuth Scale Drift, Elevation Scale Drift, Azimuth Offset Trend, Elevation Offset Trend, Azimuth Scale Trend, Elevation Scale Trend, Azimuth Offset Bias, Elevation Offset Bias, Azimuth Scale Bias, Elevation Scale Bias, Azimuth Offset Drift, Elevation Offset Drift, Azimuth Scale Drift, Elevation Scale Drift.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Drift, Elevation Drift, Azimuth Trend, Elevation Trend, Azimuth Offset, Elevation Offset, Azimuth Scale, Elevation Scale, Azimuth Offset Error, Elevation Offset Error, Azimuth Scale Error, Elevation Scale Error, Azimuth Offset Rate, Elevation Offset Rate, Azimuth Scale Rate, Elevation Scale Rate, Azimuth Offset Trend, Elevation Offset Trend, Azimuth Scale Trend, Elevation Scale Trend, Azimuth Offset Bias, Elevation Offset Bias, Azimuth Scale Bias, Elevation Scale Bias, Azimuth Offset Drift, Elevation Offset Drift, Azimuth Scale Drift, Elevation Scale Drift.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Drift, Elevation Drift, Azimuth Trend, Elevation Trend, Azimuth Offset, Elevation Offset, Azimuth Scale, Elevation Scale, Azimuth Offset Error, Elevation Offset Error, Azimuth Scale Error, Elevation Scale Error, Azimuth Offset Rate, Elevation Offset Rate, Azimuth Scale Rate, Elevation Scale Rate, Azimuth Offset Trend, Elevation Offset Trend, Azimuth Scale Trend, Elevation Scale Trend, Azimuth Offset Bias, Elevation Offset Bias, Azimuth Scale Bias, Elevation Scale Bias, Azimuth Offset Drift, Elevation Offset Drift, Azimuth Scale Drift, Elevation Scale Drift.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Hagfors, Yermizino-Bor, Naroch, Rayn, Suwaki, Anapa, Eskdalemuir Ar, Malin Array Be, Malin Array Si, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HVO 21, NEIC 21, Code Station Name, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CEL, TDS, PIPA, MSRU, SALB, DAVA, etc.











Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like A22K Sinclair Lake, U33K Whale Pass, M29M Somme Creek, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like KOTAN Kotaneelee Air, NEW Newport, C36M Paulituk, etc.

IDC 22 01:29:24.7: 1.2, 28.48N, 105.25E, h0km, mb3.7/4, mbtmp3.6/5, ML3.7/1, Error ellipse: s-maj=87.0km, s-min=21.6km az=50.0, Sichtung

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like SOMN Songino Array, MKAR Makanchi Array, etc.

IDC 22 01:34:48.4: 1.9, 29.39N, 51.05E, h0km, mb3.7/1, mbtmp3.7/13, ML3.8/2, MS3.6/2, Error ellipse: s-maj=38.6km s-min=19.8km az=6.0

TEH 22 01:34:50.4: 29.59N, 51.29E, h9km, 21km, DSN 22 01:34:55.1: 2.0, 29.24N, 51.37E, h15km, ML3.5/10, Error ellipse: s-maj=26.8km s-min=10.4km az=3.0

OMAN 22 01:34:57.7: 0.3, 29.26N, 51.65E, h15km, mb4.2/15, mh.0/0, Error ellipse: s-maj=4.5km s-min=2.7km az=318.0

ISC 22 01:34:50.6: 0.5, 29.54N, 105.51E, h0km, n107, r19.139, mb3.9/19, Southern Irra

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like KAZZ Kazeron-Fars-I, SHI Shiraz, etc.

Table with columns: Call sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like IVRN Varamin, SLWR Sila, SHME Shamm, etc.

IDC 22 01:35:31.8: 37.4, 0.48, 51N, 152.22E, h0km, Error ellipse: s-maj=167.8km s-min=134.8km az=30.0, Kuril Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes station I44RU PETROPALVLOVSK-5.77.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LCND La Caada, CNCH Conchagua, etc.

BUT 22 05:17:39.0, 1.9, 46.92N, 0:03:11.252W, 0.04, h12km, 7km, Error ellipse: s-maj=5.6km s-min=2.0km az=49.0

NEIC 22 05:17:37.2, 2.2, 46.977N, 0:00:11.245W, 0.03, h10km, 2km, ML2.9/44, ML3.2/24(BUT), Error ellipse: s-maj=3.8km s-min=3.0km az=261.0, Montana

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LYON Mountain, LYMT Mount Belmont, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like O18K comp=Z, 1.4nm, 1.4s, M16K Timber Creek, etc.

CATAC 22 05:59:39.6, 0.5, 12.14N, 4:08:17.7W, h32km, 4km, M3.7/24, MLV3.7/24, Error ellipse: s-maj=9.6km s-min=3.5km az=35.3, confirmed

SNET 22 05:59:43.4, 1.0, 12.317N, 81:07:51.7W, h16km, 1.7km, ML3.0 Error ellipse: s-maj=17.9, 1.4, 12.09N, 0:07:47.28W, 0.04, h31km, 13km, n42, s102/50, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ALEN Leon, CRIN San Cristobal, etc.

IDC 22 05:04:06.5, 1.2, 55.58S, 27:54W, h0km, mb4.2/3, mbtmp4.1/4, ML3.5/1, MS3.2/1, Error ellipse: s-maj=66.5km s-min=22.1km az=58.0

NEIC 22 05:04:09.4, 1.3, 55.68S, 27:54W, 0.2, h20km, 6km, mb4.5/14, Error ellipse: s-maj=23.3km s-min=4.5km az=52.5

ISC 22 05:04:07.8, 0.7, 55.65S, 27:54W, 0.1, h10km, n30, s062/29, mb4.4/9, 4C, South Sandwich Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HOPE Hope Point, VN1 Neumayer-Stat, etc.

ISC 22 05:04:07.8, 0.7, 55.65S, 27:54W, 0.1, h10km, n30, s062/29, mb4.4/9, 4C, South Sandwich Islands region

ISC 22 05:04:07.8, 0.7, 55.65S, 27:54W, 0.1, h10km, n30, s062/29, mb4.4/9, 4C, South Sandwich Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like YPDC Denny Creek, LDML Libby, etc.

IDC 22 07:11:36.3, 0.9, 17.39N, 147:66E, h0km, mb3.8/13, mbtmp3.9/14, ML4.7/1, MS3.2/5, Error ellipse: s-maj=26.3km s-min=18.0km az=92.0

NEIC 22 07:11:43.5, 2.0, 17.45N, 0:08:14.7E, 0.2, h51km, 9km, mb4.6/28, Error ellipse: s-maj=21.7km s-min=11.9km az=98.0

ISC 22 07:11:40.3, 0.7, 17.34N, 0:09:14.7E, 0.1, h26km, n48, s152/44, mb4.3/26, MS3.1/5, Mariana Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LCND La Caada, MATN Matagalpa, etc.

NIED 22 05:15:01.8, 40:30N, 142:30E, h38km, MW3.5, Moment Tensor Solution, s3 Moment tensor: Scale 10^14Nm; Mn:1.59; Mw:-0.04; Ms:-1.56; Mv:1.32; Mw:0.50; Mw:1.08; Fault plane solution: M2.37000x10^14 NP1: 0.178, 0.00000, 0.27, 0.00000, 0.52, 0.00000; NP2: 0.39, 0.00000, 0.69, 0.00000, 0.108, 0.00000

JMA 22 05:15:01.8, 0.1, 40.30N, 142:30E, h38km, MW3.6/40, 14D, NE OFF IWATE PREF, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HONSHU Kujindanarisaw, JKEN Kujindanarisaw, etc.

NEIC 22 05:31:19.3, 1.0, 18.7S, 0:1:17.9E, 0.2, h580km, 8km, mb4.2/13, Error ellipse: s-maj=23.6km s-min=16.2km az=109.0

IDC 22 05:31:20.8, 1.7, 18.31S, 179:18E, h577km, 14km, mb3.1/6, mbtmp4.1/7, Error ellipse: s-maj=68.5km s-min=17.8km az=148.0

ISC 22 05:31:19.6, 0.7, 18.7S, 0:1:17.9E, 0.1, h580km, n28, s072/27, mb4.1/13, Fiji Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MSVF Nonavau, PINNC Pines Island, etc.

ISC 22 05:31:19.6, 0.7, 18.7S, 0:1:17.9E, 0.1, h580km, n28, s072/27, mb4.1/13, Fiji Islands

ISC 22 05:31:19.6, 0.7, 18.7S, 0:1:17.9E, 0.1, h580km, n28, s072/27, mb4.1/13, Fiji Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KSRS Korea Array, HNR Honiara, etc.

22d 8h

Table of station data for 22d 8h, including station names like Timber Creek, Ohwah River, Nushagag Hills, and various array names with their respective coordinates and parameters.

2019 JUN

Main table of station data for 2019 JUN, listing stations such as Borovoye Array, Aktyubinsk, and various array names with their coordinates and parameters.

1316

Table of station data for 1316, including stations like Sanguang, Datong, Zhuzihu, and various array names with their coordinates and parameters.





22d 8h

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like X51A Calhoun, M50A Fremont, BPMT Black Pine Rid, etc.

2019 JUN

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like BATG Bathurst New B, TOAD Toad River Com, KOTAN Kotanelee Air, etc.

1318

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like E29M Blow River, HARP HAARP, H27K Steamboat Moun, etc.



22d 9h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KURK Kurchatov, KURBB Kurchatov, KBZ Khabaz, etc.

CGC 22 08:55:29.8:1.4, 13.82N-91.33W, h86km, 418km, MD3.8, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like STG8 El Palmer, NUBE Las Nubes, etc.

IDC 22 09:00:52.4:2.18, 25Sx175.76W, h0km, mb3.9/3, mbtmp3.9/3, Error ellipse: s-maj=294.5km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, NVAR Mina Array Bea, etc.

NOU 22 09:11:36.5:36.18S-179.36W, h84km, MLv4.3/5, East of North Island, N.Z.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WSRZ White Island S, WIZ White Island, etc.

WEL 22 09:12:12.6:0.6, 38°S x 177°E, h5km, 4km, M3.2/31, ML3.5/18, MLv3.2/31, Error ellipse: s-maj=5.9km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, NVAR Mina Array Bea, etc.

ISC 22 09:12:1.0:0.9, 37.50Sx177.16E, h0km, n77, s=070/79, Off east coast of North Island

Large table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WSRZ White Island S, WIZ White Island, WHRZ White Island, etc.

2019 JUN

Table with columns: PXZ Pawanui, WCZ Waipi Caves, BFZ Birch Farm, OUZ Omahuta. Includes Time, Res, ISC values.

IDC 22 09:13:49.1:3.3, 2.87N-128.88E, h0km, mb3.4/4, mbtmp3.4/4, Error ellipse: s-maj=285.0km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, etc.

NEIC 22 09:23:53.3:0.5, 20.70S:0.3:174.92W:0.06, h130km, 11km, mb4.3/14, Error ellipse: s-maj=37.5km s-min=4.6km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, etc.

ISC 22 09:23:53.7:0.8, 20.6S:0.2:174.92W:0.08, h150km, n23, s=180/74, mb4.1/10, Tonga Islands

Large table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NIUE Niue, NONS Nonsavu, MSVF Nonsavu, PINNC Pines Island, etc.

CGC 22 09:43:42.1:1.6, 13.81N:90.14W, h128km, 17km, MD3.8, ML3.7

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, NVAR Mina Array Bea, etc.

SNET 22 09:43:44.0:0.8, 14.09N:89.92W, h119km, 5km, ML3.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, NVAR Mina Array Bea, etc.

ISC 22 09:43:46.6:0.3, 13.83N:0.2:90.00W:0.1, h107km, 17km, n46, s=137/50, Near coast of Guatemala

Large table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like NUBE Las Nubes, NUBS Las Nubes, LOAL Lomas de Alarc, etc.

1320

mbtmp3.7/3, Error ellipse: s-maj=67.2km s-min=25.8km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, STKA Stephens Creek, etc.

IDC 22 09:53:55.6:2.7, 30.99S:0.10:177.0W:0.4, h35km, n6, s=188/77, mb3.8/3, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, STKA Stephens Creek, etc.

IDC 22 09:53:55.6:2.7, 37.65N:77.85E, h0km, mb3.9/5, mbtmp3.8/10, ML3.5/5, M3.1/2, Error ellipse: s-maj=36.2km s-min=27.4km az=28.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SATY Saty, UZB Uzynbulak, MDOK Medeo, etc.

NNC 22 09:54:04.2:1.3, 38.02N:78.14E, h0km, mb4.3, mpv3.9, Error ellipse: s-maj=9.1km s-min=7.8km az=132.0

ISC 22 09:53:59.3:1.9, 38.0N:0.1:77.98E:0.08, h10km, n32, s=192/31, mb3.9/5, 7C-2D, Southern Xinjiang

Large table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SATY Saty, UZB Uzynbulak, MDOK Medeo, etc.

Table with columns: NEST, OHR, TIR, SRN, IGT, Station Name, AML, AML, Time, Res. Includes stations like Barichara, Barrancabermej, Pamplona, La Rusia, etc.

RSNC 22 10:02:21.5±0.7N, 1°7'3W, h147km, 2km, M3.0, mB4.5, mb2.7, ML2.9, Mw(mB)3.7, Northern Colombia

Main station list for RSNC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like BARC, BRJC, PAMC, RUSC, etc.

IDC 22 10:09:10.9±4.2, 20°09'S, 178°50'W, h466km, 35km, mb2.8/5, mbmp3.7/7, Error ellipse: s-maj=95.3km, s-min=23.3km az=147.0, Fiji Islands region

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like MSFV, DZM, STKA, ASAR, WRA, TXAR, ILAR, etc.

IDC 22 10:21:51.2±1.1, 12°85'S, 166°06'E, h43km, 31km, mb3.7/5, mbmp4.0/7, ML4.1/2, MS3.4/6, Error ellipse: s-maj=43.8km, s-min=17.8km az=59.0

IDC 22 10:21:48.1±1.5, 12.8S, 0.1°166.2E, h20km, n12, r1919/10, mb3.9/5, MS3.7/5, Santa Cruz Islands

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like HNR, HNR, DZM, DZM, STKA, WRA, ASAR, ASAR, GUMO, SEY, QSPA, PFO, NVAR, MKAR, KEST, etc.

RSNC 22 10:28:55.2±0.0, 7°N, 1°7'3W, h150km, 2km, M3.1, mb3.7, ML2.9, Northern Colombia

Station list for RSNC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like BARC, BARC.

Station list for BRJC event with columns: BRJC, PAMC, RUSC, etc. Includes stations like Barrancabermej, Pamplona, La Rusia, etc.

PLV 22 10:20:10.1±1.4, 21°35'N, 103°22'E, h17km, 6km, ML3.7, IDC 22 10:21:01.1±1.8, 21°31'N, 103°48'E, h0km, mb3.7/2, mbmp3.5/3, ML3.3/1, Error ellipse: s-maj=27.5km, s-min=24.2km az=136.0

Station list for PLV event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like MLVB, MLVB, CMAR, CMAR, MKAR, WRA, etc.

IDC 22 10:50:16.4±1.3, 7°27'S, 125°43'E, h524km, 21km, mb3.0/6, mbmp3.9/11, Error ellipse: s-maj=41.7km, s-min=13.9km az=54.0

IDC 22 10:50:17.5±0.8, 7.4S, 0.1°125.2E, h550km, n11, r141/14, mb3.5/6, Banda Sea

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like BATI, KAPI, FITZ, FITZ, WRA, ASAR, ASAR, DZM, MKAR, PETK, ZALV, KURBB, etc.

WEL 22 10:50:50.9±1.0, 34°S, 5°17'9E, h12km, M4.0/12, mB4.4/2, ML4.2/14, MLv4.0/12, Mw(mB)3.6/2, Error ellipse: s-maj=10.8km, s-min=7.0km az=78.9, confirmed, South of Kermadec Islands

Station list for WEL event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like WMGZ, HAZ, PKGZ, PUZ, RUGZ, TWGZ, MWZ, TKGZ, URZ, etc.

Station list for URZ event with columns: URZ, RAGZ, RAGZ, OUZ, TOZ, RIGZ, RIGZ, RTZ, SNGZ, SNGZ, RAHZ, BKZ, etc. Includes stations like Rawiri, Tahuroa Road, Rimuhau, etc.

IDC 22 11:02:42.1±2.6, 30°68'S, 177°37'W, h0km, mb3.6/2, mbmp3.6/2, Error ellipse: s-maj=58.6km, s-min=29.5km az=95.0, Kermadec Islands

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like RAO, RAO, ASAR, ASAR, WRA, FINES, etc.

IDC 22 11:12:27.0±1.7, 27°6'S, 138°79'E, h0km, mb3.1/2, s-maj=25.0km az=155.0, Irian Jaya

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like JAY, JAY, WRA, ASAR, MKAR, etc.

WEL 22 11:12:29.0±1.1, 34°S, 7°17'9E, h12km, M4.0/12, mB4.5/1, ML4.1/15, MLv4.0/12, Mw(mB)3.6/1, Error ellipse: s-maj=11.0km, s-min=8.1km az=70.9, confirmed, South of Kermadec Islands

Station list for WEL event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like MXZ, MXZ, WMGZ, HAZ, PKGZ, PUZ, RUGZ, TWGZ, WZ, CNWZ, MWZ, URZ, URZ, OUZ, TOZ, RTZ, SNGZ, PRGZ, MHGZ, BKZ, etc.

STR 22 11:19:10.8±0.7, 45°N, 4°E, h5km, MLv1.1/7, Error ellipse: s-maj=0.0km, s-min=0.0km az=135.2, preliminary, France

Station list for STR event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like ORIF, ORIF.

IDC 22 11:33:14.3±3.0, 30.7ZS, 177°30'W, h0km, mb3.5/2, mbmp3.5/2, Error ellipse: s-maj=62.2km, s-min=29.8km az=97.0, Kermadec Islands

Station list for IDC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like RAO, RAO, RAO, URZ, ASAR, WRA, FINES, etc.

IDC 22 11:45:36.7±3.3, 36°41'N, 140°71'E, h41km, 28km, mb3.5/6, mbmp3.6/8, ML3.3/2, MS3.0/3, Error ellipse: s-maj=31.1km, s-min=24.6km az=142.0

NIED 22 11:45:37.8±0.1, 36°43'N, 140°69'E, h52km, MW3.8, Moment tensor solution: s3 Moment tensor: Scale 10^14 Nm; Mn: 3.83; M0: 0.02; M1: 3.85; M2: 1.41; M3: 0.21; M4: 2.40; Fault plane solution: M4, 75000x10^14 NPI; 0.7, 10, 0.0000, 0.30, 0.0000, 1.65, 0.0000; NP2: 18.00000, 0.63, 0.0000, 1.04, 0.0000

JMA 22 11:45:37.8±0.1, 36°43'N, 140°71'E, h52km, MD3.7/38, MW3.6/38, NORTHERN IBARAKI PREF, JMA Felli Ji at NORTHERN IBARAKI PREF

ISC 22 11:45:37.3±0.6, 36°48'N, 0.05°140.76E, h07km, 53km, n32, r12/207, mb3.7/6, MS2.9/3, 8D, Near east coast of eastern Honshu

Station list for ISC event with columns: Code, Station Name, A°, AZ°, Phase ID, Time, Res. Includes stations like JHYU, JHYU, JHYU, JHO, JHO, JHYU, JYT, JYT, JHYU, etc.





1323

GLA	Glamis	15.24	131	Pn	12 47 18.0	0.0
Q32M	Nakina River	15.28	353	P	12 47 16.5	-2.0
ESJX	Sierra Juarez	15.46	136	Pn	12 47 21.0	-0.1
R33M	Jennings River	15.61	355	P	12 47 21.8	-1.0
LIRD	Liard River Hi	15.64	5	P	12 47 22.3	-0.7
P32M	Atlin	16.05	351	P	12 47 27.4	-0.9
SKAG	Skagway	16.15	348	P	12 47 29.3	-0.2
PLBC	Pleasant Camp	16.32	346	P	12 47 31.5	-0.1
BEAVL	Fort Liard	16.47	6	P	12 47 33.0	-0.7
KOTAN	Kotaneleele Air	16.51	8	P	12 47 33.3	-0.9
P33M	Teslin Yukon	16.57	353	P	12 47 32.5	-2.5
P29M	Windy Craggy	16.74	344	P	12 47 35.5	-1.7
P30M	Million Dollar	17.05	346	P	12 47 40.1	-0.9
PNH	Peninsula	17.14	341	P	12 47 40.4	-1.6
WHY	Whitehorse	17.24	350	P	12 47 42.6	-0.8
DGMT	Dagmar	17.48	66	Iamb	12 47 53.6	
N32M	Quiet Lake	17.52	353	P	12 47 46.3	-0.5
O30N	Mendenhall	17.52	348	P	12 47 46.2	-0.6
O29M	Mount Kennedy	17.53	343	P	12 47 46.9	-0.2
TG2N	Hyland Airport	17.69	0	P	12 47 48.3	-0.7
PINM	Pinnacle	17.72	341	P	12 47 49.3	-0.1
PCA	Pinnacle	17.72	341	Iamb	12 48 00.4	
HYT	Haines Junctio	17.80	346	P	12 47 49.2	-1.2
YUK6	Outpost Mounta	18.07	345	P	12 47 52.7	-1.2
N31M	Braeburn, Yuko	18.15	349	P	12 47 53.6	-1.1
MESA	MESA	18.22	338	P	12 47 55.2	-0.5
Q24A	Divide	18.23	98	Iamb	12 48 04.5	
O28M	Mount Upton	18.30	342	P	12 47 56.5	-0.2
YAH	Yatzeque	18.32	339	Iamb	12 48 07.4	
N30M	Aishikik Lake	18.33	347	P	12 47 57.2	+0.3
SDCO	Great Sand Dun	18.49	101	Iamb	12 48 09.0	
YUK4	Talbot Arm	18.50	345	P	12 47 59.2	+0.2
BGLC	Bering Glacier	18.54	336	P	12 47 59.2	0.0
FARO	Faro, Yukon	18.60	353	P	12 48 00.3	+0.1
GRNC	Granite Creek	18.64	340	Iamb	12 48 10.7	
YUK8	Steele Glacier	18.67	343	P	12 48 02.0	+0.8
M31M	Drury Creek, Y	18.68	351	P	12 48 01.1	+0.1
WAX	Waxell Ridge	18.69	338	Iamb	12 48 11.5	
KAIM	Kayak Island	18.73	335	P	12 48 01.6	-0.1
CTGM	Chitina Glacie	18.74	340	Iamb	12 48 12.0	
CTG	Chitna Glacier	18.74	340	P	12 48 01.6	0.0
BMPG	Sheldon Lake,	18.85	356	P	12 48 02.4	-0.1
MERG	Berg Lake	18.89	336	Iamb	12 48 13.5	
BARN	Barnard Glacier	18.90	340	Iamb	12 48 13.7	
TGL	Tana Glacier	18.94	338	Iamb	12 48 15.5	
Q23K	Middleton Isia	18.98	331	P	12 48 03.4	-0.6
DUN6	Lazy B Ranch	18.99	120	Iamb	12 48 12.2	
CRQE	Cirque	19.01	338	P	12 48 05.3	+0.1
ANMO	Albuquerque	19.24	110	Iamb	12 48 14.0	
ANMO	Albuquerque	19.24	110	Iamb	12 48 15.1	
ANMO	Albuquerque	19.24	110	P	12 48 08.8	+0.6
YUK3	Moose Creek	19.26	343	P	12 48 08.1	-0.2
Y22D	IRIS PASSCAL I	19.43	113	P	12 48 08.4	-0.9
M29M	Somme Creek	19.48	346	P	12 48 09.4	-0.2
MCARA	McCarthy VSAT	19.52	339	Iamb	12 48 25.1	
MCARA	McCarthy VSAT	19.52	339	P	12 48 10.7	-0.5
T25A	Trinidad	19.54	102	Iamb	12 48 21.7	
BMRM	Bremner River	19.61	336	P	12 48 10.7	-0.3
WRGLV	Wrigley	19.62	7	P	12 48 11.3	+0.4
EYAK	Cordova Ski Ar	19.63	334	P	12 48 11.5	+0.5
P23K	Montague Isian	19.76	331	P	12 48 12.7	+0.3
BVCY	Beaver Creek	19.91	343	P	12 48 14.3	+0.1
FID	Port Fidalgo	20.02	334	P	12 48 19.1	+2.0
L29M	L29M	20.05	347	P	12 48 16.2	+0.5
M27K	Edge Creek, AK	20.09	342	P	12 48 18.8	+0.8
M27K	Edge Creek, AK	20.09	342	P	12 48 17.3	-0.7
DIV	Divide	20.09	335	P	12 48 19.9	+1.9
N25K	Chitina, Valde	20.13	337	P	12 48 20.7	+2.2
N25K	Chitina, Valde	20.13	337	P	12 48 16.8	+0.2
MAYO	Mayo, Yukon	20.20	351	P	12 48 20.7	+1.3
MAYO	Mayo, Yukon	20.20	351	P	12 48 16.4	-1.0
GLI	Glacier Island	20.31	333	P	12 48 22.1	+1.6
GLI	Glacier Island	20.31	333	P	12 48 17.4	-1.1
FFC	Flin Flon	20.34	48	Iamb	12 48 29.6	
YKA	Yellowknife Ar	20.36	19	P	12 48 19.4	+0.3
M26K	Nabesna, AK	20.39	341	P	12 48 21.8	+0.3
M26K	Nabesna, AK	20.39	341	P	12 48 17.9	-1.5
KLU	Klutina	20.42	336	P	12 48 23.1	+1.2
KLU	Klutina	20.42	336	P	12 48 19.3	-0.5
KDAK	Kodiak Island	20.43	321	P	12 48 23.9	+2.0
KDAK	Kodiak Island	20.43	321	P	12 48 20.2	+0.4
KDAK	Kodiak Island	20.43	321	P	12 48 18.4	-1.4
OHAH	Old Harbor	20.46	319	Pn	12 48 24.9	+2.6

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OHAH	Old Harbor	20.46	319	P	12 48 19.7	-0.5
MDND	Maddock	20.52	69	P	12 48 19.9	-1.0
SEW	Seward	20.57	329	P	12 48 26.5	+3.0
SEW	Seward	20.57	329	P	12 48 20.7	-0.6
SII	Sitkinak Isian	20.57	317	P	12 48 20.8	-0.6
K29M	Bank Dome	20.65	349	P	12 48 21.2	-1.1
L27K	Beaver Creek,	20.70	343	P	12 48 37.6	
L27K	Beaver Creek,	20.70	343	P	12 48 22.0	-0.7
PWL	Port Wells	20.71	332	P	12 48 22.3	-0.6
Q20K	Shuyak Island	20.80	323	P	12 48 23.3	-0.6
BRSE	Breadley Lake S	20.82	327	P	12 48 23.9	-0.1
BRLK	Breadley Lake	20.89	327	Iamb	12 48 35.5	
O22K	Cooper Landing	20.93	330	P	12 48 29.1	+1.4
O22K	Cooper Landing	20.93	330	P	12 48 39.7	
O22K	Cooper Landing	20.93	330	P	12 48 25.0	-0.1
HARP	HAARP	20.93	338	P	12 48 25.3	0.0
M24K	Tolsona, Glenn	20.98	337	P	12 48 26.5	+0.6
CHIR	Chirikof Isian	20.98	314	P	12 48 26.3	+0.5
L26K	Log Cabin Wild	21.00	341	P	12 48 28.4	+2.4
L26K	Log Cabin Wild	21.00	341	P	12 48 25.8	-0.3
RTBA	Rita Blaine	21.05	102	Iamb	12 48 37.3	
K30B	Basset	21.09	83	P	12 48 25.5	-1.6
SCM	Sheep Creek Mo	21.11	335	Iamb	12 48 41.9	
SCM	Sheep Creek Mo	21.11	335	P	12 48 26.6	-0.6
HOM	Homer	21.12	327	P	12 48 27.6	+0.3
SLKM	Skikil Lake	21.12	330	Iamb	12 48 41.4	
EPT	El Paso	21.15	117	P	12 48 28.3	+0.4
DAWY	Dawson	21.14	347	P	12 48 26.3	-1.3
KNK	Knik Glacier	21.15	333	Iamb	12 48 38.0	
KNK	Knik Glacier	21.15	333	P	12 48 27.4	-0.2
R18K	Karluk	21.18	319	P	12 48 28.4	+0.5
M23K	Glacier View	21.20	334	P	12 48 28.0	-0.1
J30M	Hart River	21.20	351	P	12 48 28.4	+0.1
SUSD	Susitna	21.22	78	P	12 48 27.5	-1.0
J29N	Kloniker Camp	21.33	348	P	12 48 30.0	+0.4
RC01	Rabbit Creek A	21.35	331	Iamb	12 48 39.6	
RC01	Rabbit Creek A	21.35	331	P	12 48 30.6	+0.8
SML	Sawmill	21.40	334	Iamb	12 48 40.5	
SML	Sawmill	21.40	334	P	12 48 30.3	0.0
PAX	Paxson	21.48	339	Iamb	12 48 46.2	
PAX	Paxson	21.48	339	P	12 48 31.6	+0.4
PMR	Palmer	21.50	333	Iamb	12 48 41.4	
PMR	Palmer	21.50	333	P	12 48 32.0	+0.6
Q19K	Cape Douglas,	21.52	323	P	12 48 31.3	-0.3
GHO	Glory Hole Cre	21.57	333	Iamb	12 48 46.7	
K27K	Chicken	21.61	344	Iamb	12 48 47.7	
K27K	Chicken	21.61	344	P	12 48 32.5	0.0
CAPN	Captain Cook N	21.64	329	P	12 48 32.8	0.0
DOT	Dot Lake	21.71	341	Iamb	12 48 44.6	
P19K	Oil Pt	21.76	325	P	12 48 34.3	+0.1
O20K	Slope Mountain	21.77	327	P	12 48 34.7	+0.4
WAT6	Susitna Watana	21.81	336	P	12 48 35.2	+0.4
I30M	Mount Dempster	21.83	351	P	12 48 35.4	+0.3
ACHA	Angle Creek He	21.90	320	P	12 48 40.3	+4.6
M22K	Willow	21.95	332	P	12 48 36.6	+0.5
SUA	Susitna One	21.96	331	Iamb	12 48 46.1	
SUA	Susitna One	21.96	331	P	12 48 36.2	-0.2
RIDG	Independent Ri	21.97	341	Iamb	12 48 46.6	
RIDG	Independent Ri	21.97	341	P	12 48 36.8	+0.4
SCRK	Sand Creek	21.97	342	Iamb	12 48 47.4	
SCRK	Sand Creek	21.97	342	P	12 48 36.2	-0.3
D18K	Katmai Highway	21.98	327	P	12 48 36.8	+0.2
QHY	Denali Horsesh	21.99	337	Iamb	12 48 49.3	
DHY	Denali Highway	22.09	337	P	12 48 38.2	+0.4
Q17K	Contact Creek	22.19	320	P	12 48 40.0	+1.1
I29M	Ogilvie Camp,	22.20	349	P	12 48 39.5	+0.6
H31M	Peel River	22.21	354	Iamb	12 48 54.7	
H31M	Peel River	22.21	354	P	12 48 38.8	-0.2
WAT1	Susitna Watana	22.24	336	P	12 48 40.0	+0.7
K24K	Donnelly Dome	22.25	340	Iamb	12 48 49.9	
K24K	Donnelly Dome	22.25	340	P	12 48 39.8	+0.4
N20K	Lake Minchumir	22.31	329	P	12 48 40.2	0.0
SPCR	Spurr Chakacha	22.31	329	P	12 48 40.3	+0.1
J26L	Joseph Creek	22.33	343	Iamb	12 48 55.3	
J26L	Joseph Creek	22.33	343	P	12 48 40.4	+0.1
STLK	Strandilak Lak	22.37	330	Iamb	12 48 51.4	
P18K	Big Mountain,	22.46	323	P	12 48 41.5	-0.2
CUT	Chultna	22.46	333	P	12 48 42.0	+0.3
BGNE	Belgrade	22.47	86	Iamb	12 48 53.2	
O19K	Port Alsworth	22.52	326	P	12 48 42.8	+0.6
I28M	Miner Creek	22.52	348	P	12 48 41.1	-1.3
AMTX	Amarillo	22.57	104	Iamb	12 48 52.2	
SKT	Skwentna	22.59	331	Iamb	12 48 55.9	
SKT	Skwentna	22.59	331	P	12 48 43.2	+0.2
R16K	Pilot Point	22.68	317	P	12 48 44.2	+0.2

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O18K	Koktuh Hills	22.70	324	P	12 48 44.6	+0.4
Q16K	King Salmon	22.74	321	P	12 48 45.2	+0.6
RND	Reindeer	22.77	336	Iamb	12 48 56.4	
CHNA	Chernabura Isl	22.79	310	P	12 48 45.0	-0.1
J25K	Salcha River,	22.83	341	P	12 48 45.5	-0.2
P17K	Kvichak River	22.89	322	P	12 48 46.3	+0.1
I27K	Kandi River	22.94	346	P	12 48 47.6	+0.9
N19K	Bonanza Creek	22.95	327	P	12 48 47.4	+0.5
I26K	Coal Creek Min	22.96	344	Iamb	12 48 58.1	
I26K	Coal Creek Min	22.96	344	P	12 48 46.8	-0.1
EPYK	Eagle Plains	22.98	352	Iamb	12 48 57.1	
EPYK	Eagle Plains	22.98	352	P	12 48 47.9	+0.7
ECSD	EROS Data Cent	23.00	79	Iamb	12 48 55.7	
AGMN	Agassiz Nation	23.02	67	Iamb	12 48 56.2	
H29M	Whitestone	23.03	350	Iamb	12 48 57.7	
H29M	Whitestone	23.03	350	P	12 48 48.6	+1.0
MCK	McKinley	23.04	337	Iamb	12 48 57.9	
MCK	McKinley	23.04	337			

22d 12h

Table with columns: Station, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like MLY Manley, F28M Old Crow, N16K Nishlik Lake, etc.

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Table with columns: Station, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like D25K Kavik River, TOLK Toolik Lake, G19K Purcell Mountain, etc.

1324

Table with columns: Station, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like V48A Smith Brothers, X48A Hartselle, SWET Sewatuk, etc.



22d 12h

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like PDAR Pinedale Array, SIT Sitka, S32K Killisnoo, etc.

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Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like EYAK Cordova Ski Ar, P23K Moutague Islan, GLB Gilgaha Butte, etc.

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Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like AGMN Agassiz Nation, EPYK Eagle Plain, ULM Lac du Bonnet, etc.

I20K	Naaghedeneel	25.55	334	P	P	12 57 31.0	+1.0
K17K	Iditarod	25.59	328	P	P	12 57 30.9	+0.5
H21K	Melozina	25.66	337	P	P	12 57 32.1	+1.1
N14K	Kuskokwak Cree	25.66	321	P	P	12 57 32.5	+1.5
N14K	Kuskokwak Cree	25.66	321	P	P	12 57 32.0	+1.0
C36M	Paulutuk	25.73	4	P	P	12 57 31.4	0.0
G23K	Bananza Creek	25.74	340	P	P	12 57 32.9	+1.2
F24K	Squaw Lake	25.91	343	P	P	12 57 33.6	+0.3
E25K	Arctic Village	25.98	346	P	P	12 57 34.9	+1.0
EYMM	Ely	25.99	68	P	P	12 57 33.9	-0.3
D26M	Stokes Point	26.13	352	P	P	12 57 35.5	+0.4
M14K	Bethel	26.14	332	P	P	12 57 36.0	+0.7
H20K	Antonteneqa Mo	26.16	335	P	P	12 57 35.9	+0.4
COLD	Coldfoot	26.19	341	P	P	12 57 37.0	+1.3
J17K	VABM Dome	26.27	329	P	P	12 57 36.9	+0.5
G22K	Bettles	26.27	340	P	P	12 57 37.2	+0.7
GCSA	Galena City Sc	26.30	333	P	P	12 57 37.0	+0.3
D27M	Malcolm River	26.30	350	P	P	12 57 36.7	-0.2
L15K	Ungalak Mouna	26.34	324	P	P	12 57 38.8	+1.6
G21K	Alakaket	26.49	338	P	P	12 57 39.1	+0.6
E24K	Your Creek	26.51	343	P	P	12 57 39.8	+1.1
UNV	Unalaska Valle	26.61	306	P	P	12 57 39.6	0.0
M13K	Dall Lake	26.62	321	P	P	12 57 40.9	+1.2
K15K	Wolf Creek Mou	26.66	325	P	P	12 57 40.9	+0.9
H19K	Roundabout Mou	26.66	334	P	P	12 57 41.1	+1.1
L14K	Kuka Creek	26.71	323	P	P	12 57 40.8	+0.3
E23K	Chandalar	26.73	343	P	P	12 57 40.0	-0.7
J16K	Anvik River	26.78	328	P	IAMB	12 57 42.7	+1.5
J16K	Anvik River	26.78	328	P	IAMB	12 57 51.3	
J16K	Anvik River	26.78	328	P	P	12 57 41.7	+0.6
F22K	John River	26.89	340	P	P	12 57 43.0	+0.9
F21K	Alatna River	27.00	339	P	P	12 57 44.4	+1.2
C27K	Jago River	27.03	348	P	P	12 57 44.8	+1.5
H18K	Honhosa River	27.05	333	P	P	12 57 44.8	+1.3
I17K	Unalakleet	27.14	329	P	P	12 57 45.6	+1.3
D25K	Kavik River	27.18	346	P	P	12 57 46.0	+1.3
TOLK	Toolik Lake Re	27.20	343	P	P	12 57 46.4	+1.5
G19K	Purcell Mouna	27.27	335	P	P	12 57 46.6	+1.1
E22K	Anaktuvuk Pass	27.29	341	P	P	12 57 46.3	+0.6
H17K	Granite Mouna	27.45	331	P	P	12 57 47.0	-0.1
C26K	Camden Bay	27.47	348	P	P	12 57 48.0	+0.8
D24K	Happy Valley	27.48	344	P	P	12 57 48.3	+0.9
F20K	Avaraska Lake	27.48	337	P	P	12 57 47.9	+0.5
BLKN	Baker Lake	27.55	30	P	IAMB	12 57 48.6	+0.6
BLKN	Baker Lake	27.55	30	P	IAMB	12 57 57.5	
G18K	Tagewawik	27.60	334	P	P	12 57 48.6	+0.1
J14K	Nanvaranak Lak	27.70	325	P	P	12 57 49.4	+0.1
D23K	Namushuk River	27.70	343	P	P	12 57 49.8	+0.5
K13K	Kusilvak Moun	27.81	323	P	P	12 57 50.2	-0.2
F19K	Shaleruckik Mo	27.93	336	P	P	12 57 51.5	+0.1
M11K	Mekoryuk	27.93	320	P	P	12 57 51.6	+0.1
C24K	Franklin Bluff	27.94	345	P	P	12 57 51.4	0.0
NIKH	Nikolski High	27.94	303	P	IAMB	12 57 52.6	+1.0
NIKH	Nikolski High	27.94	303	P	IAMB	12 58 01.5	
NIKH	Nikolski High	27.94	303	P	P	12 57 52.6	+1.0
G17K	Kiwalik Mouna	28.03	332	P	P	12 57 53.0	+0.7
E21K	Killik River	28.04	340	P	P	12 57 53.0	+0.6
D22K	Aiyikavik River	28.07	342	P	P	12 57 53.7	+1.0
H16K	Elim	28.11	330	P	P	12 57 53.9	+0.9
E19K	Redstone River	28.19	337	P	P	12 57 54.0	+0.2
A36M	Sachs Harbour	28.32	2	P	P	12 57 54.7	-0.1
F18K	Selawik	28.36	334	P	P	12 57 55.8	+0.7
L42A	Oliver, Polo	28.40	80	P	P	12 57 54.9	-0.9
C23K	Itkillik River	28.40	344	P	P	12 57 55.8	+0.2
E20K	Nigu River	28.47	339	P	P	12 57 56.8	+0.6
G16K	Koyuk River	28.56	331	P	P	12 57 57.1	+0.1
CCM	Cathedral Cave	28.62	89	P	P	12 57 57.6	-0.3
CCM	Cathedral Cave	28.62	89	P	P	12 57 57.6	-0.3
CCM	Cathedral Cave	28.62	89	P	P	12 57 57.6	-0.3
P08K	Saint George I	28.71	311	P	P	12 57 58.9	+0.4
F17K	Baldwin Pennin	28.77	333	P	P	12 57 59.0	+0.1
C21K	Knifeflade Rid	28.77	341	P	P	12 57 59.2	+0.3
D20K	Eivuk River	28.90	339	P	P	12 58 00.2	+0.2
G15K	Niukluk	28.96	329	P	P	12 58 00.4	-0.1
B21K	Ikpikpuk River	29.09	342	P	P	12 58 01.6	-0.1
D19K	Kuna River	29.15	338	P	P	12 58 02.5	+0.3
E18K	Tukpahleark C	29.16	335	P	P	12 58 02.6	+0.3
SP1A	Saint Paul Is	29.18	312	P	P	12 58 02.8	+0.2
ANM	Nome	29.25	328	P	P	12 58 03.1	-0.1
E17K	Hotham Inlet	29.34	334	P	P	12 58 04.0	+0.2
B22K	Teshkepuk Lake	29.38	343	P	P	12 58 03.9	-0.3
HKT	Hockley	29.41	107	P	P	12 58 09.1	+4.3
F15K	North Star Dit	29.54	330	P	P	12 58 05.9	+0.2
C19K	Lookout Ridge	29.95	338	P	P	12 58 08.8	-0.6
B20K	Meade River	29.97	341	P	P	12 58 09.0	-0.4
F14K	Arctic Creek	30.03	329	P	P	12 58 09.6	-0.5
C18K	Utukok River	30.10	337	P	P	12 58 10.8	+0.1
A22K	Sincilar Lake	30.23	343	P	P	12 58 11.4	-0.2

RDOG	Red Dog Mine	30.25	335	P	P	12 58 11.7	-0.2
C17K	DeLong Mountai	30.57	336	P	P	12 58 14.3	-0.5
TNA	Tin City	30.67	329	P	P	12 58 15.6	0.0
B18K	Kokolik River	30.73	338	P	P	12 58 16.1	-0.1
A19K	Wainwright	31.07	339	P	P	12 58 18.5	-0.6
C16K	Lisburne Hills	31.12	334	P	P	12 58 18.9	-0.7
GAMB	Gambell	31.49	324	P	P	12 58 22.3	-0.6
WVT	Waverly	31.91	90	P	P	12 58 26.5	-0.4
WVT	Waverly	31.91	90	P	P	12 58 26.5	-0.4
RES	Resolute Bay	34.42	15	P	IAMB	12 58 49.1	+0.7
RES	Resolute Bay	34.42	15	P	IAMB	12 59 01.6	
RES	Resolute Bay	34.42	15	P	P	12 58 49.1	+0.7
RES	Resolute Bay	34.42	15	P	P	12 58 49.1	+0.7
POIN	Pond Inlet	37.30	22	P	LR	12 59 14.2	+1.2
SHEM	Shemya Is, Ala	38.25	304	LR	LR	13 11 57.6	
CMIG	Mattias Romero	38.96	122	LR	LR	13 16 11.7	
SCHO	Schefferville	40.47	52	P	P	12 59 41.2	+1.3
D62A	Allapoint, Ali	41.03	64	P	IAMB	12 59 44.8	+0.2
D62A	Allapoint, Ali	41.03	64	P	IAMB	12 59 53.2	
BILL	Bilbino	41.10	329	P	IAMB	12 59 42.7	-2.2
BILL	Bilbino	41.10	329	P	IAMB	12 59 54.3	
BILL	Bilbino	41.10	329	P	P	12 59 45.7	+0.8
PET	Petrovavlovsk	47.21	308	P	P	13 00 34.1	+0.1
PET	Petrovavlovsk	47.21	308	P	P	13 00 32.0	-2.0
PET	Petrovavlovsk	47.21	308	P	P	13 07 23.8	-2.1
SEY	Seymchan	47.44	322	P	P	13 00 35.6	-0.1
SEY	Seymchan	47.44	322	P	P	13 00 35.6	-0.1
PEA0B	Petrovavlovsk	47.73	309	P	P	13 00 38.0	-0.1
PEA0B	Petrovavlovsk	47.73	309	P	P	13 00 38.3	+0.3
PETK	Petrovavlovsk	47.73	309	P	P	13 00 37.6	-0.4
PETK	Petrovavlovsk	47.73	309	P	P	13 02 06.6	-0.4
PETK	Petrovavlovsk	47.73	309	P	P	13 17 47.7	
SUMG	Summit	48.92	24	P	P	13 00 48.0	+0.5
SUMG	Summit	48.92	24	P	P	13 00 48.0	+0.5
MA2	Magadan	49.19	318	P	P	13 00 49.9	+0.7
MA2	Magadan	49.19	318	P	P	13 00 49.7	+0.5
MA2	Magadan	49.19	318	P	P	13 00 51.5	+2.3
TIXI	Tiksi	52.82	337	P	IAMB	13 01 14.2	-2.1
TIXI	Tiksi	52.82	337	P	IAMB	13 01 24.7	
TIXI	Tiksi	52.82	337	P	P	13 02 24.8	-0.6
TIXI	Tiksi	52.82	337	P	P	13 01 14.2	-2.1
TIXI	Tiksi	52.82	337	P	P	13 02 24.8	
TAOE	Nuku Hiva Isla	53.44	194	eLR	LR	13 16 41.0	
KBS	Kingsbay	55.35	90	P	P	13 01 37.8	+3.1
SPITS	Spitsbergen Ar	56.46	8	P	P	13 01 42.3	-0.4
YAK	Yakutsk	57.40	327	P	P	13 01 48.8	-0.7
YAK	Yakutsk	57.40	327	P	P	13 01 49.3	-0.2
H11N3	WAKE ISLAND Hy	58.33	268	T	T	14 05 11.1	
H11N2	WAKE ISLAND Hy	58.33	268	T	T	14 05 11.2	
H11N1	WAKE ISLAND Hy	58.33	268	T	T	14 05 10.9	
YSS	Yuzhno-Sakhal	59.06	307	P	P	13 02 00.5	-0.9
YSS	Yuzhno-Sakhal	59.06	307	P	P	13 02 02.3	+0.9
YSS	Yuzhno-Sakhal	59.06	307	P	P	13 04 11.5	
YSS	Yuzhno-Sakhal	59.06	307	P	P	13 10 03.2	-4.2
YSS	Yuzhno-Sakhal	59.06	307	P	P	13 13 58.5	-2.3
H11S1	WAKE ISLAND Hy	59.26	267	T	T	14 06 19.9	
H11S2	WAKE ISLAND Hy	59.27	267	T	T	14 06 18.6	
H11S3	WAKE ISLAND Hy	59.27	267	T	T	14 06 20.6	
GRNR	Gornyy	60.48	313	P	P	13 02 10.4	-0.7
ASAJ	Asahiva	60.71	304	P	P	13 02 12.5	-0.2
ROSC	El Rosal	61.37	113	LR	LR	13 31 36.7	
ZEA	Zeya	63.29	320	P	P	13 02 29.8	-0.1
KLR	Kul'dur	63.82	314	P	P	13 02 33.0	-0.5
KLR	Kul'dur	63.82	314	P	P	13 28 34.4	
KLR	Kul'dur	63.82	314	P	P	13 02 34.5	+1.0
PPT2	Papeete2	64.04	202	eS	S	13 11 08.9	-2.0
PPT2	Papeete2	64.04	202	eS	S	13 18 43.4	
PPT2	Papeete2	64.04	202	eS	S	13 21 30.9	
PPT2	Papeete2	64.04	202	eS	S	13 21 42.5	
HEH	Heihe	65.39	317	eP	P	13 02 43.1	-0.6
HEH	Heihe	65.39	317	eP	P	13 02 49.9	0.0
HEH	Heihe	65.39	317	eP	P	13 11 31.9	+4.8
HEH	Heihe	65.39	317	eP	P	13 02 43.1	-0.6
HEH	Heihe	65.39	317	eP	P	13 02 49.9	0.0
HEH	Heihe	65.39	317	eP	P	13 11 31.9	+4.8
HEH	Heihe	65.39	317	eP	P	13 02 43.1	-0.6
HEH	Heihe	65.39	317	eP	P	13 02 49.9	0.0
HEH	Heihe	65.39	317	eP	P	13 11 31.9	+4.8
HEH	Heihe	65.39	317	eP	P	13 02 43.1	-0.6
HEH	Heihe	65.39	317	eP	P	13 02 49.9	0.0
HEH	Heihe	65.39	317	eP	P	13 11 31.9	+4.8
USR0B	Ussuriysk Arra	66.80	309	P	P	13 02 53.2	+0.3
USRK	Ussuriysk Ar	66.80	309	P	P	13 02 52.7	-0.2
US							





Table with columns: H1N2, H1N1, H1S1, H1S2, H1S3, SONM, KURBB, QSPA. Includes station names, coordinates, and time/phase data.

DJA 22:15:53.5-1.6, 12°S-16°11'E, h10km, M3.9/7, mb4.1/2, MLv3.7/7, South of Sumbawa

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WBSI, PLAI, TWSI, SRBI, EDFI, JAGI, GMJI, PCJI.

BGR 22 13:00:10.7, 42°64N, 130°96W, h10km, mb4.7, IDC 22 13:00:12.7, 0.5, 43.83N-128.65W, h0km, mb4.5/38, mbmp4.4/45, ML3.8/7, MS4.7/21, Error ellipse: s-min=15.6km s-max=8.2km az=32.0

Main station list table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KEBM, I02E, J01E, H04D, G03D, F03A, R03M, B03R, E03A, Y04A, Y04B, Y04C, Y04D, Y04E, Y04F, Y04G, Y04H, Y04I, Y04J, Y04K, Y04L, Y04M, Y04N, Y04O, Y04P, Y04Q, Y04R, Y04S, Y04T, Y04U, Y04V, Y04W, Y04X, Y04Y, Y04Z.

Main station list table with columns: I05D, J05D, J05E, J05F, J05G, J05H, J05I, J05J, J05K, J05L, J05M, J05N, J05O, J05P, J05Q, J05R, J05S, J05T, J05U, J05V, J05W, J05X, J05Y, J05Z. Includes stations like Terrebonne, Fort Rock, comp=N, Pine Mountain, Green Mountain, Mt. Diablo Mer, Mount Ozzard, Longridge, Longridge, Cowichan Lake, Solberg, Bella Bella, Bella Bella, Pearl Lake, Newport, comp=E, Mina Array, comp=E, Elko, Missoula, Black Pine Ridge, DLMT, Ketchikan, CRAIG, Bozeman, Bozeman, Whale Pass, Wrangell Island, Bob Quinn, Petersburg, KANAB, Kanab, Pinoy Flats, Pinedale Array, SIT, Killisnoo, Telegraph Cree, DLBC, Eaglecrest, R31K, Pelican, CCX, GLA, TOAD, R31K, Sierra Juarez, NAKINA, Carpenter Ridge, Jennings River, LIRD, Paradox Valley, Saucer Basin, Atlin, SKAG, Pleasant Camp, BEAVL, Kotan, P33M, P29M, W18A, P30M, PNL, WHY, DGMT, N32M, O30N, O30N, RSSD, RSSD, RSSD, O29M, PINM, HYT, TUC, TUC, Q24A, YUK6, N31M, MESA, O28M, SDCO, YAH, N30M, YUK4, BGCL, FARO, YUK8, M31M, KAIM.

Main station list table with columns: CTG, DUN6, MMPY, BERG, Q23K, CRQE, CROM, ANMO, ANMO, ANMO, ANMO, Y22D, YUK3, T25A, BNM, 319A, M29M, MCARA, MCARA, WRGLY, WRGLY, WRGLY, BRM, BRM, EYAK, OGNE, HIN, P23K, KSC0, BVCY, FID, L29M, M27K, N25K, MAYO, HSG, FFC, FFC, FFC, GLI, YKA, YKA, M26K, MDND, KLU, KDAK, KDAK, KDAK, KDAK, OHAK, OHAK, OHAK, SII, SEW, K29M, L27K, PWL, SYI, Q20K, BRSE, O22K, HARP, EPT, CHIR, M24K, M24K, L26K, L26K, SCM, SCM, HOM, DAWY, KNK, KNK, R18K, J30M, M23K, J29N, RC01, RC01, SML, PAX, PAX, PMR, PMR, HOOD, HOOD, Q19K.

22d 13h

Table with columns: Station ID, Name, Frequency, Power, Direction, Date/Time, and other parameters. Includes stations like Q19K Cape Douglas, GHO Glory Hole Cre, K27K Chickadee, etc.

2019 JUN

Table with columns: Station ID, Name, Frequency, Power, Direction, Date/Time, and other parameters. Includes stations like O17K Koliganek Bris, H27K Steamboat Moun, KTH Kamitana Hill, etc.

1330

Table with columns: Station ID, Name, Frequency, Power, Direction, Date/Time, and other parameters. Includes stations like F25K Christian River, F25K Christian River, L16K Ohwat River, etc.

Table with columns: ID, Name, Date, Time, Status, Location, etc. Includes entries like E19K Redstone River, A36M Sachs Harbour, I42A Draeger Farm, etc.

Table with columns: ID, Name, Date, Time, Status, Location, etc. Includes entries like GOGA Godfrey, GOGA Godfrey, R55A Marlinton, etc.

Table with columns: ID, Name, Date, Time, Status, Location, etc. Includes entries like YSS, H11S1 WAKE ISLAND HY 59.30 267, H11S2 WAKE ISLAND HY 59.31 267, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, and various numerical values. Includes stations like BMRD, BGES, BCLA, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, and various numerical values. Includes stations like FUORN, KURK, PBDV, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, and various numerical values. Includes stations like IGHG, TAFT, ANAR, etc.

IDC 22 13:12:53.3±1.4, 31°43N, 49°72E, h0km, mb3.8/8, mbtnp3.8/10, ML3.8/2, Error ellipse: s-maj=31.9km s-min=21.0km az=10.0

NEIC 22 13:16:09.8±1.4, 43°61N, 0°07:128.7W, 0.2, h10km, 2km, mb4.2/8, ML3.5/34, Error ellipse: s-maj=21.2km s-min=11.6km az=262.0

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, and various numerical values. Includes stations like AHWZ, ABEH, GTRM, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, and various numerical values. Includes stations like KEBM, IO2E, J01E, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like YBH, HOOD, G05A, G06A, NVAR, PDAR, ANMO, YKA, ULM, ILAR, L19K, M17K, MLY, TXAR, LPIG, J19K, J18K, E28M, EYMM, PETK, JMJC, H1N1, H1N2, H1N1, H1S1, H1S2, H1S3, SONM, HHC, HHC, HHC, BVAR, KURBB, MKAR, KSH, KSH, PZH.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like HCAM, HFEM, BSRM, GHS, CADN, JLAB, PACP, PACP, PACP, HPCM, HPCM, SCZ, BJOM, HMOM, HMOM, SLD, SLD, BJCM, CO72, CO54, JJOM, SCSB, MHC, BEMM, BPRM, CO59, BSMM, CO46, CO41, BPIM, SKWR, CMMP, BSGM, BBGB, CO16, CALM, JSJM, CMLM, BJMM, CO39, J18V, J18K, JPSM, MTOS, CO17, JSFB, CO01, CO50, BMSM, JRSC, BGH, CO15, WENI, CO48, CSTL, CSTL, CVLM, CNIC, CYDI, CBZL, PCCM, CO55, JCHM, JCPM, HULI, PMPB, SANC, CMOB, SAAC, BGC, JSBM, JMGM, PSAM, PPTM, MLLM, BKS, VAK, PSMM, CPIM, PHPM, LEGD, PANM, CPMM, PKD, PINL, PPO, PSTM, NLMH, WSRE, FARB, FARB, PHFM, MHDH, BUCR, BUCR, BUCR, LCVU, PCBM, BLD, PKLM, CMB, TCHL, PAMG, PAMM, CVS, CVS, MCMC, MCMC, MCMC, QRDQ, OAKV, TSCN, WELL, WELL, WELL, DPD, BPBM, SMMC, AFDM, MIMS, MIDCM, MDYM, CRCR, WAKR, WAKR, WAKR, HOPS, HOPS, HOPS, BCW, BCW, BCW, ORV, ISA, DSP.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like DSP, RYN, RYN, BEKR, BEKR, CCAC, CCAC, O02D, O02D, TPNV, TPNV, KRMB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

WEL 22 13:22:14.3, 1.2, 34:52:27.179W, 3:3, h172km, 41km, M3.77, mB4.1/1, ML4.0/9, MLV3.77, Mw(mb)3.2/1, Error ellipse: s-maj=54.2km s-min=15.3km az=128.4, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like WMGZ, WMGZ, PKGZ, PKGZ, HAZ, HAZ, PUZ, PUZ, RUCZ, RUCZ, TWGZ, TWGZ, MWZ, MWZ, URZ, URZ, SNGZ, SNGZ, RAHZ, RAHZ, MTHZ, MTHZ, NMHZ, NMHZ, BKZ, BKZ, KZH.

NOU 22 13:27:11.3, 10:25:162:68E, h55km, ML4.0/10, Solomon Islands, Bougainville-Solomon Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like HURO, HURO, ALEG, ALEG, HNR, HNR, SAVO, SAVO, TATA, TATA, TATA, TATA.

NEIC 22 13:29:22.7, 1.0, 36:87N:0.02:121:61W:0.03, h10km, 1km, Error ellipse: s-maj=4.5km s-min=2.6km az=231.0  
NCEDC 22 13:29:23.1, 1.36:88N:0.01:121:62W:0.02, h8km, 4km, ML3.0/64, ML2.8/50(NEIC), Error ellipse: s-maj=2.5km s-min=1.5km az=65.0, Central California

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like HTUM, HTUM, HCBM, HCBM, HCOM, HCOM, HTRM, HTRM, FRP, FRP, HPLM, HPLM, JELB, JELB, SAO, SAO, HCAM, HCAM.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.

NEIC 22 13:32:06.8, 1.6, 43:63N:0.09:128:6W:0.1, h10km, 2km, mB4, 1/9, ML2, 2/36, Error ellipse: s-maj=19.1km s-min=12.6km az=235.0  
IDC 22 13:32:07.5, 2.8, 43:75N:0.128:6W:0.1, h10km, mb3.5/4, mbtm3.4/5, Error ellipse: s-maj=63.3km s-min=25.1km az=44.0  
ISC 22 13:32:06.7, 1.4, 43:63N:0.1:128:6W:0.1, h10km, n40, r153/31, mb3.9/7, Off coast of Oregon

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KEBM, KEBM, J01E, J02E, K02D, K02D, COR, COR, BUCK, BUCK, G03D, G03D, H04A, H04A, H04D, H04D, BBOR, BBOR, H04A, H04A, WISH, WISH, NLWA, NLWA, NLWA, NLWA, HOOD, HOOD, GNW, GNW, HPCX, HPCX, MOXIE, MOXIE, LTV, LTV, NVR, NVR, GMN, GMN, WRGL, WRGL, FFC, FFC, YKA, YKA, L26K, L26K, MENT, MENT, RIDG, RIDG, SCRK, SCRK, DHY, DHY, ULM, ULM, ILAR, ILAR, NEA2, NEA2, H1N1, H1N1, H1N2, H1N2, H1N1, H1N1, H1S1, H1S1, H1S2, H1S2, H1S3, H1S3, KURBB, KURBB.





P29M	Windy Craggy	16.85 344	P	Pn	13 44 09.7 +0.6
P30M	Million Dollar	17.15 346	P	P	13 44 14.3 -0.4
PNL	Peninsula	17.24 341	P	P	13 44 14.9 -0.6
WHY	Whitehorse	17.34 350	P	P	13 44 17.4 +0.6
O30N	Mendenhall	17.62 348	P	P	13 44 20.6 +0.8
N32M	Quiet Lake	17.63 353	P	P	13 44 20.5 +0.6
O29M	Mount Kennedy	17.63 343	P	P	13 44 20.2 +0.2
RSSD	Black Hills	17.68 80	I Amb	I Amb	13 44 31.3
TGTM	Hyland Airport	17.80 1	P	P	13 44 23.0 +1.2
PINM	Pinnacle	17.82 341	P	P	13 44 23.3 +1.2
HYT	Haines Junctio	17.91 346	P	P	13 44 24.2 +1.1
YUK6	Outpost Mounta	18.18 345	P	P	13 44 27.2 +1.0
N31M	Braeburn, Yuko	18.26 349	P	P	13 44 28.3 +1.5
MESA	MESA	18.32 338	P	P	13 44 28.2 +0.5
TABL	Table Mountain	18.34 340	P	Pn	13 44 25.7 -2.1
O28M	Mount Upton	18.41 342	P	Pn	13 44 27.3 -1.4
O28M	Mount Upton	18.41 342	P	Pn	13 44 29.3 +0.6
N30M	Aishkik Lake	18.43 347	P	Pn	13 44 29.5 +0.6
SDCO	Great Sand Dun	18.47 101	P	P	13 44 27.5 -2.2
YUK4	Talbot Arm	18.60 345	P	P	13 44 32.9 +1.9
LOGN	Logan Glacier	18.64 341	P	P	13 44 28.6 -2.6
FARO	Faro, Yukon	18.71 353	P	Pn	13 44 33.9 +1.7
YUK8	Steele Glacier	18.77 343	P	Pn	13 44 33.7 +0.5
M31M	Drury Creek, Y	18.79 352	P	P	13 44 32.4 -0.2
M31M	Drury Creek, Y	18.79 352	P	P	13 44 32.8 +0.2
WAX	Waxell Ridge	18.80 338	P	P	13 44 31.9 -0.9
WAX	Waxell Ridge	18.80 338	I Amb	I Amb	13 44 48.6
KAIM	Kayak Island	18.82 335	P	Pn	13 44 33.9 +0.3
CTGM	Chitina Glacie	18.84 341	I Amb	I Amb	13 44 48.0
CTG	Chitna Glacier	18.84 341	P	Pn	13 44 34.6 +0.7
DUN6	Lazy B Ranch	19.04 120	P	P	13 44 32.5 -2.0
MMPY	Sheldon Lake	19.06 356	P	P	13 44 33.2 +1.3
MMPY	Sheldon Lake	19.06 356	P	P	13 44 35.9 +0.7
BARN	Barnard Glacier	19.00 340	I Amb	I Amb	13 44 53.6
Q23K	Middleton Isla	19.08 332	P	Pn	13 44 37.3 +0.8
CRQE	Cirque	19.11 338	P	Pn	13 44 38.2 +1.1
ANMO	Albuquerque	19.21 110	P	P	13 44 38.8 +0.3
ANMO	Albuquerque	19.21 110	LR	LR	13 52 20.5
YUK3	Moose Creek	19.36 343	P	Pn	13 44 40.0 -0.2
Y22D	IRIS PASCAL I	19.39 113	P	P	13 44 40.2 +0.6
T25A	Trinidad	19.52 102	I Amb	I Amb	13 44 57.4
M29M	Somme Creek	19.59 346	P	Pn	13 44 42.9 +0.1
319A	Douglas	19.62 132	I Amb	I Amb	13 44 55.2
MCARA	McCarthy VSAT	19.63 339	P	P	13 44 43.4 +0.2
BMRM	Bremner River	19.71 337	P	Pn	13 44 44.3 +0.1
EYAK	Cordova Ski Ar	19.73 334	P	Pn	13 44 44.0 -0.3
WRGLY	Wrigley	19.73 7	P	Pn	13 44 44.1 -0.3
P23K	Montage Island	19.86 332	P	P	13 44 45.0 +0.8
BVCY	Beaver Creek	20.02 343	P	Pn	13 44 47.2 -0.6
KSCO	Kaye Shedlock	20.02 95	I Amb	I Amb	13 45 01.8
L29M	L29M	20.16 347	P	Pn	13 44 48.7 -0.8
M27K	Edge Creek, AK	20.19 342	P	Pn	13 44 49.2 -0.7
N25K	Chitina, Valde	20.23 338	P	Pn	13 44 50.1 -0.3
GLI	Glacier Island	20.41 334	P	Pn	13 44 51.5 -0.8
FFC	Flin Flon	20.42 48	I Amb	I Amb	13 45 01.3
YKA	Yellowknife Ar	20.47 19	P	P	13 44 50.8 -0.1
YKA	Yellowknife Ar	20.47 19	LR	LR	13 52 31.6
M26K	Nabesna, AK	20.49 341	P	Pn	13 44 52.7 -0.7
KDAK	Kodiak Island	20.51 322	LR	LR	13 50 45.0
KDAK	Kodiak Island	20.51 322	P	Pn	13 44 53.1 -0.5
KLU	Klutina	20.52 336	P	Pn	13 44 53.1 -0.7
OHAK	Old Harbor	20.54 320	P	Pn	13 44 53.6 -0.3
SII	Sitkinak Island	20.65 317	P	Pn	13 44 54.8 -0.4
SEW	Seward	20.66 330	P	Pn	13 44 54.7 -0.6
K29M	Barlow Dome	20.76 349	P	Pn	13 44 55.4 -1.2
L27K	Beaver Creek	20.80 343	P	P	13 44 55.3 +0.7
PWL	Port Wells	20.80 332	P	P	13 44 55.8 +1.2
Q20K	Shuyak Island	20.89 324	P	P	13 44 56.4 +0.9
BRSE	Bradley Lake S	20.91 328	P	P	13 44 56.1 +0.4
O22K	Cooper Landing	21.02 330	P	P	13 44 57.8 +1.0
HARP	HARA P	21.04 338	P	P	13 44 58.3 +1.2
RTBA	Rita Blanca	21.04 102	I Amb	I Amb	13 45 07.5
CHIR	Chirikof Island	21.06 314	P	P	13 44 58.6 +1.3
M24K	Tolsona, Glenn	21.08 337	I Amb	I Amb	13 45 31.1
M24K	Tolsona, Glenn	21.08 337	P	P	13 44 57.9 +0.3
L26K	Log Cabin Wild	21.11 341	I Amb	I Amb	13 45 04.5
L26K	Log Cabin Wild	21.11 341	P	P	13 44 58.7 +0.8
MENT	Mentasta	21.12 341	I Amb	I Amb	13 45 04.8
SCM	Sheep Creek Mo	21.21 335	I Amb	I Amb	13 45 15.6
SCM	Sheep Creek Mo	21.21 335	P	P	13 45 00.2 +1.3
HOM	Home	21.21 327	P	P	13 44 59.9 +1.0
SLKM	Skilak Lake	21.22 330	I Amb	I Amb	13 45 11.1
KNK	Knik Glacier	21.25 333	I Amb	I Amb	13 45 03.0
KNK	Knik Glacier	21.25 333	P	P	13 44 59.9 +0.6
DAWY	Dawson	21.26 347	P	P	13 45 00.1 +0.7
R18K	Karluk	21.26 320	P	P	13 44 59.8 +0.4
M23K	Glacier View	21.30 335	P	P	13 45 00.8 +0.9

J30M	Hart River	21.31 351	P	P	13 45 00.1 0.0
J29N	Klonidike Camp	21.44 349	P	P	13 45 01.9 +0.5
RC01	Rabbit Creek A	21.45 331	I Amb	I Amb	13 45 15.7
RC01	Rabbit Creek A	21.45 331	P	P	13 45 02.3 +0.8
SML	Sawmill	21.50 334	I Amb	I Amb	13 45 07.6
SML	Sawmill	21.50 334	P	P	13 45 04.2 +0.3
PAX	Paxson	21.59 339	P	P	13 45 03.7 +0.7
PMR	Palmer	21.60 333	I Amb	I Amb	13 45 06.5
P19K	Palmer	21.60 333	P	P	13 45 03.9 +0.9
PMR	Cape Douglas,	21.61 323	P	P	13 45 04.1 +0.8
GHO	Glory Hole Cre	21.66 333	P	P	13 45 03.2 -0.7
GHO	Glory Hole Cre	21.66 333	I Amb	I Amb	13 45 16.4
K27K	Chicken	21.71 344	P	P	13 45 04.5 +0.2
P19K	Oil Pt	21.85 325	P	P	13 45 06.5 +0.7
O20K	Slope Mountain	21.86 327	P	P	13 45 06.8 +0.9
MNTX	Cornudas Moun	21.88 116	I Amb	I Amb	13 45 16.8
WAT6	Susitna Watana	21.91 336	P	P	13 45 07.1 +0.5
I30M	Mount Dempster	21.94 351	P	P	13 45 07.5 +0.6
M22K	Willow	22.05 332	I Amb	I Amb	13 45 10.8
M22K	Willow	22.05 332	P	P	13 45 08.4 +0.6
SUA	Susitna One	22.06 331	I Amb	I Amb	13 45 11.2
SUA	Susitna One	22.06 331	P	P	13 45 08.7 +0.5
Q18K	Katmai Hardscr	22.02 322	P	P	13 45 09.0 +0.8
RIDG	Independent Ri	22.07 341	I Amb	I Amb	13 45 11.7
RIDG	Independent Ri	22.07 341	P	P	13 45 09.0 +0.8
SCRK	Sand Creek	22.08 342	I Amb	I Amb	13 45 11.6
SCRK	Sand Creek	22.08 342	P	P	13 45 08.9 +0.6
RED	Redoubt Volcan	22.12 327	I Amb	I Amb	13 45 19.7
DHY	Denali Highway	22.19 337	I Amb	I Amb	13 45 14.4
DHY	Denali Highway	22.19 337	P	P	13 45 09.9 +0.3
Q17K	Contact Creek	22.27 320	P	P	13 45 10.9 +0.5
MSTX	Muleshoe	22.28 107	I Amb	I Amb	13 45 21.6
I29M	Ogilvie Camp,	22.31 349	P	P	13 45 11.3 +0.5
H31M	Peel River	22.32 354	I Amb	I Amb	13 45 15.0
H31M	Peel River	22.32 354	P	P	13 45 10.9 +0.1
WAT1	Susitna Watana	22.34 336	P	P	13 45 11.9 +0.8
K24K	Donnelly Dome	22.36 340	I Amb	I Amb	13 45 15.6
K24K	Donnelly Dome	22.36 340	P	P	13 45 12.4 +1.1
N20K	Mount Spurr	22.41 329	P	P	13 45 13.2 +1.4
SPCR	Spurr Chakacha	22.41 329	P	P	13 45 12.6 +0.8
J26L	Joseph Creek	22.44 343	P	P	13 45 13.2 +1.0
P18K	Big Mountain,	22.55 323	I Amb	I Amb	13 45 17.1
P18K	Big Mountain,	22.55 323	P	P	13 45 13.9 +0.6
C19K	China	22.56 333	P	P	13 45 14.6 +1.2
OUT	Port Alsworth	22.61 326	P	P	13 45 14.7 +0.8
I28M	Miner Creek	22.63 348	P	P	13 45 14.8 +0.5
SKT	Skwentna	22.68 332	I Amb	I Amb	13 45 18.8
SKT	Skwentna	22.68 332	P	P	13 45 15.9 +1.2
VHRN	Van Horn	22.73 117	I Amb	I Amb	13 45 52.0
R16K	Pilot Point	22.76 318	P	P	13 45 16.2 +0.7
O18K	Koktuh Hills	22.79 324	I Amb	I Amb	13 45 31.5
O18K	Koktuh Hills	22.79 324	P	P	13 45 16.4 +0.5
Q16K	King Salmon	22.82 321	P	P	13 45 17.7 +0.6
CHNA	Chernabura Isl	22.85 310	P	P	13 45 16.1 +0.6
RND	Reindeer	22.87 336	I Amb	I Amb	13 45 21.5
J25K	Salcha River,	22.94 341	I Amb	I Amb	13 45 22.1
J25K	Salcha River,	22.94 341	P	P	13 45 17.9 +0.5
F33A	5 Mile Ranch,	22.94 73	I Amb	I Amb	13 45 29.0
P17K	Kvichak River	22.98 322	P	P	13 45 18.4 +0.6
ECSD	EROS Data Cent	23.04 79	I Amb	I Amb	13 45 32.9
N19K	Bonanza Creek	23.04 327	P	P	13 45 19.2 +0.7
I27K	Kank River	23.05 346	P	P	13 45 18.7 +0.2
I26K	Coal Creek Min	23.07 344	I Amb	I Amb	13 45 37.1
I26K	Coal Creek Min	23.07 344	P	P	13 45 19.7 +1.1
AGMN	Agassiz Nation	23.07 67	I Amb	I Amb	13 45 35.4
PECS	Pecos	23.08 114	I Amb	I Amb	13 45 31.5
EPYK	Eagle Plains	23.09 352	I Amb	I Amb	13 45 22.3
EPYK	Eagle Plains	23.09 352	P	P	13 45 20.4 +1.4
ULM	Ula du Bonnet	23.11 62	P	P	13 45 19.6 +0.4
ULM	Ula du Bonnet	23.11 62	LR	LR	13 53 43.4
H29M	Whitestone	23.14 350	I Amb	I Amb	13 45 22.9
H29M	Whitestone	23.14 350	P	P	13 45 20.3 +0.9
MCK	McKinley	23.14 337	I Amb	I Amb	13 45 22.9
MCK	McKinley	23.14 337	P	P	13 45 21.0 +1.5
HDA	Harding Lake	23.15 340	P	P	13 45 20.5 +1.0
M20K	Styx River	23.19 330	I Amb	I Amb	13 45 23.6
M20K	Styx River	23.19 330	P	P	13 45 21.3 +1.3
S14K	Fog Glacier	23.28 313	P	P	13 45 21.7 +0.7
TRF	Thorofore Moun	23.33 335	I Amb	I Amb	13 45 29.2
TRF	Thorofore Moun	23.33 335	P	P	13 45 23.0 +1.4
G31M	Satah River	23.42 354	I Amb	I Amb	13 45 24.7
G31M	Satah River	23.42 354	P	P	13 45 23.3 +1.1
ILAR	Eielson Array	23.43 340	P	P	13 45 22.2 -0.2
ILAR	Eielson Array	23.43 340	LR	LR	13 52 50.5

SMWD	Sammorwood
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22d 14h

2019 JUN

1338

Table with columns: Station ID, Name, Elevation, Azimuth, Azimuth Error, Azimuth Range, and other parameters. Includes stations like P29M, P30M, PNL, WHY, ISCO, N32M, O30N, O29M, TGTN, PINM, PINT, HYNT, YUK6, N31M, MESA, SDCO, O28M, N30M, YUK4, FARO, M31M, YUK8, DUN6, KAIM, CTGM, CTG, MPMY, BARN, ANMO, Q23K, CRQE, CRQM, Y22D, YUK3, T25A, M29M, VRDI, WRGLV, BMRM, EYAK, P23K, GLB, BVCY, M27K, N25K, RNC, YKA, YKAW1, GLI, M26K, KLU, KDAK, OHAK, SEW, SII, K29M, L27K, PWL, Q20K, BRSE, BRLK, HARP, O22K, M24K, M24K, CHIR, L26K, MENT, SCM, HOM, DAWW, KNK, J30M, R18K.

Table with columns: Station ID, Name, Elevation, Azimuth, Azimuth Error, Azimuth Range, and other parameters. Includes stations like M23K, J29N, RC01, SML, PAX, PMR, P19K, GHO, K27K, MNTX, DOT, P19K, O20K, WAT6, I30M, ILSW, M22K, RIDG, RIDG, SCRK, SCRK, SUA, SUA, Q18K, DHY, DHY, H31M, H31M, I29M, Q17K, WAT1, K24K, K24K, SPU, AMTX, N20K, SPCR, J26L, CUT, P18K, P18K, I28M, O19K, SKT, SKT, O18K, O18K, ECSD, CHNA, AGMN, J25K, PECS, ULM, ULM, P17K, I27K, I26K, I26K, N19K, EPYK, EPYK, H29M, HDA, HDA, MCK, MCK, M20K, M20K, S14K, TRF, TRF, G31M, G31M, ILAR, ILAR, ILAR, WRH, SDPT, PPLA.

Table with columns: Station ID, Name, Elevation, Azimuth, Azimuth Error, Azimuth Range, and other parameters. Includes stations like N18K, N18K, O17K, H27K, KTH, G30M, P16K, M19K, PRP, G29M, G29M, COLA, POKR, NEA2, NEA2, L20K, F31M, CAST, O16K, O16K, M18K, N17K, N17K, L19K, BPAW, BPAW, G27K, G27K, F30M, CHUM, EPLO, I23K, TXAR, TXAR, H25L, K20K, K20K, H24K, H24K, O15K, FYU, M17K, M17K, LP1G, F28M, G26K, MLY, MLY, N16K, INK, L18K, L18K, G25K, H23K, H23K, SAND, M16K, OZNA, J20K, N15K, E29M, E29M, G24K, G24K, O14K, L17K, F26K, E27K, E27K, J19K, H22K, J18K, E28M, F25K, L16K, I20K, M15K, K17K, H21K, C36M, N14K, G23K.















NUUG	comp=Z,38nm,0.8s	79.11 353	i P	P	14 42 00.9 +0.3
N32M	Quiet Lake	79.18 25	I Amb	I Amb	14 42 02.5
N32M	comp=Z,65nm,0.9s	79.18 25	P	P	14 42 01.3 0.0
ICESG	Quiet Lake	79.18 25	P	P	14 42 02.0 -0.4
ICESG	Greenland Ices	79.35 348	i P	I Amb	14 42 02.0 -0.4
SKAG	Skagway	79.40 27	I Amb	I Amb	14 42 04.7
SKAG	Skagway	79.40 27	P	P	14 42 03.5 +1.1
SKAG	Skagway	79.40 27	P	P	14 42 03.5 +1.1
HTL	Hartland	79.47 323	eP	I Amb	14 42 02.7 -0.2
P33M	comp=Z,28nm,1.0s	79.89 25	P	P	14 42 05.5 +0.3
R31K	Teslin, Yukon	79.89 28	P	P	14 42 05.7 +0.6
P32M	City Hall, Gus	79.89 28	P	P	14 42 05.7 +0.6
S31K	Atlin	79.96 28	P	P	14 42 06.2 +0.6
CEST	Pelican	80.42 313	I Amb	I Amb	14 42 09.5
R32K	Esteri de Car	80.48 27	P	P	14 42 09.3 +1.0
JIS	Eaglecrest	80.53 27	P	P	14 42 09.8 +1.2
TGTN	Juneau Island	80.53 27	P	P	14 42 10.0 +0.8
SIT	Hyland Airport	80.92 29	I Amb	I Amb	14 42 13.3
SIT	Nakina River	80.92 29	P	P	14 42 12.5 +1.8
SIT	Sitka	80.92 29	P	P	14 42 12.0 +1.3
Q32M	Sitka	80.92 29	P	P	14 42 11.8 +0.8
WRGLY	Wrigley	80.95 20	I Amb	I Amb	14 42 12.3
WRGLY	comp=Z,37nm,0.9s	80.95 20	P	P	14 42 11.6 +0.5
S32K	Killisnoo	80.97 28	P	P	14 42 11.6 +0.7
ILLUL	baz=310	81.06 352	i P	P	14 42 10.9 -0.3
R33M	Illulissat	81.13 25	P	P	14 42 13.1 +1.1
WTLY	Jennings River	81.44 24	P	P	14 42 13.8 +1.1
ANGG	Watson Lake, Y	81.89 345	i P	P	14 42 14.2 -1.4
S34M	Ammassalik, Gr	82.07 27	P	P	14 42 18.1 +1.3
T33K	Telegraph Cree	82.07 28	P	P	14 42 18.1 +1.3
DLBO	Petersburg	82.12 26	P	P	14 42 17.9 +0.6
ISOG	Dease Lake	82.25 346	i P	P	14 42 15.7 -1.8
ILON	Isortoq, Green	82.35 2	I Amb	I Amb	14 42 18.7
U33K	Iloolik, Nuna	82.47 29	P	P	14 42 20.0 +1.1
WRAK	White Pass	82.59 28	P	P	14 42 20.5 +1.1
BEAV	Wrangell Islan	82.59 28	P	P	14 42 20.7 +0.7
CRAG	Fort Liard	82.89 29	I Amb	I Amb	14 42 23.3
CRAG	Craig	82.89 29	P	P	14 42 22.2 +1.2
CRAG	Craig	82.89 29	P	P	14 42 22.2 +1.2
LIRD	Liard River Hi	82.90 24	P	P	14 42 21.8 +0.7
T35M	Bob Quin	83.06 27	P	P	14 42 23.5 +1.5
SFJD	Kangerlussuaq	83.06 351	P	LR	14 42 21.7 0.0
SFJD	Kangerlussuaq	83.06 351	LR	LR	15 22 42.9
SFJD	Kangerlussuaq	83.06 351	P	P	14 42 21.7 0.0
SFJD	Kangerlussuaq	83.06 351	i P	I Amb	14 42 20.9 -0.8
KOTAN	comp=Z,77nm,0.8s	83.07 22	P	P	14 42 22.9
TOAD	Kotaneleev Air	83.07 22	P	P	14 42 22.5 +0.6
V35K	Toad River Com	83.61 24	P	P	14 42 25.1 +0.3
U35K	baz=317,SNR=39	83.63 29	P	P	14 42 25.2 +0.4
YKA	Ketchikan	83.89 28	P	P	14 42 26.9 +0.7
YKA	Hyder	84.03 17	P	P	14 42 26.9 +0.1
YKA	Yellowknife Ar	84.03 17	P	P	14 42 26.9 +0.1
YKA	comp=Z,20nm,0.8s, baz=329,slow=5.3,SNR=51	84.07 17	P	LR	15 24 23.1
YKAW1	Yellowknife Wh	84.07 17	P	P	14 42 26.9 0.0
YKAW1	comp=Z,35nm,0.9s	84.07 17	I Amb	I Amb	14 42 28.4
MSVF	Nonsavu	84.29 114	LR	LR	15 15 34.2
MSVF	comp=Z,41nm,21.8s, baz=307,slow=32	84.29 114	P	P	14 42 30.4 +1.5
DIB	Nonsavu	84.68 31	I Amb	I Amb	14 42 32.0
RUBB	Dawson Inlet,	84.68 31	I Amb	I Amb	14 42 32.0
ESDC	Prince Rupert	85.39 29	I Amb	I Amb	14 42 32.6
ESDC	Sonsec Array	85.31 313	P	P	14 42 33.6 -0.2
ESDC	comp=Z,4.3nm,1.1s, baz=42,slow=4.9,SNR=17	85.31 313	PP	PP	14 45 51.5 +0.4
ESDC	comp=Z,2.8nm,1.0s, baz=58,slow=8.0,SNR=5.7	85.31 313	LR	LR	15 23 40.5
NUUK	comp=Z,294nm,19.8s, baz=50,slow=38	85.87 350	i P	P	14 42 35.7 -0.2
LSZ	Nuluk	85.89 250	P	P	14 42 36.1 -1.0
LSZ	Lusaka	85.89 250	LR	LR	15 20 44.3
LSZ	Lusaka	85.89 250	P	P	14 42 36.4 -0.6
LSZ	Lusaka	85.89 250	P	P	14 42 36.4 -0.6
LSZ	Lusaka	85.89 250	P	P	14 42 36.1 -1.0
MVO	comp=Z,146nm,1.6s	86.41 315	eP	P	14 42 39.6 +0.4
MVO	Moncorvo	86.41 315	I Amb	I Amb	14 42 44.8
MVO	comp=Z,22nm,2.5s	86.41 315	eS	LR	15 17 10.0
MVO	comp=Z,22nm,2.5s	86.41 315	eS	LR	15 17 10.0
PGAV	comp=Z,192nm,20.0s	86.70 317	eP	P	15 29 32.3
PGAV	Gaveira, Arco	86.70 317	eP	P	14 42 41.2 +0.5
PGAV	comp=Z,43nm,2.0s	86.70 317	eP	P	14 42 45.5
PGAV	comp=Z,223nm,20.0s	86.70 317	eS	LR	14 53 32.9 +1.5
PGAV	comp=Z,223nm,20.0s	86.70 317	eS	LR	15 16 19.6
PCAB	comp=Z,223nm,20.0s	86.70 317	eP	P	15 22 44.1
PCAB	Cabril	86.70 317	eP	P	14 42 41.3 +0.6
POLO	comp=Z,59nm,1.0s	86.76 316	eP	P	14 42 44.0
POLO	Lamas de Olo	86.76 316	eP	P	14 42 41.8 +0.8
PVRL	comp=Z,18nm,1.9s	86.77 316	eP	P	14 42 41.8 +0.8
MTE	Vila Real	86.77 316	eP	P	14 42 41.6 +0.7
MTE	Manteigas	87.17 315	eP	P	14 42 43.8 +0.8
MTE	comp=Z,36nm,1.9s	87.17 315	eS	LR	14 42 46.8
MTE	comp=Z,36nm,1.9s	87.17 315	eS	LR	14 53 26.6 +4.1
MTE	comp=Z,36nm,1.9s	87.17 315	eS	LR	15 17 11.8
MTE	comp=Z,36nm,1.9s	87.17 315	eS	LR	15 28 22.4
PVIS	comp=Z,180nm,18.0s	87.20 315	eP	P	14 42 44.1 +1.0
BBB	Viewu	87.31 29	P	P	14 42 44.3 +0.2
BBB	Bella Bella	87.31 29	P	P	14 42 43.5 +0.2
PTO	comp=Z,11nm,1.0s	87.39 316	eP	P	14 42 43.5 -0.4
PCBR	Porto	87.45 315	eP	P	14 42 44.5 +0.2
PCBR	Castelo Branco	87.45 315	eP	P	14 42 43.2
NRS	comp=Z,23nm,1.8s	87.50 346	I Amb	I Amb	14 42 52.8
NRS	Narsarsuaq	87.50 346	i P	P	14 42 42.0 -2.0
PMRV	Narsarsuaq	87.63 314	eP	P	14 42 45.3 +0.1
PMRV	Marv??o	87.63 314	eP	P	14 42 47.6

PMRV	comp=Z,255nm,18.0s	88.02 315	eP	P	14 53 39.4 +1.2
PMRV	Sardao	88.02 315	eP	P	15 18 22.7
PMRV	comp=Z,255nm,18.0s	88.02 315	eP	P	15 25 37.2
PSARD	comp=Z,52nm,1.8s	88.02 347	i P	P	14 42 47.6 +0.6
PSARD	vigtut	88.08 314	I Amb	I Amb	14 42 50.6
IVI	Estremoz	88.08 314	I Amb	I Amb	14 42 45.8 -0.7
PESTR	Estremoz	88.08 314	eP	P	14 42 49.9
PESTR	comp=Z,60nm,1.8s	88.08 314	eP	P	14 42 47.7 +0.4
PESTR	Estremoz	88.08 314	eP	P	14 42 50.5
PBAR	Barrancos	88.13 313	eP	P	14 42 46.7 -0.8
PBAR	comp=Z,33nm,1.7s	88.13 313	eP	P	14 42 50.5
MATP	Matopo	88.27 246	LR	LR	15 20 12.8
PMTG	Matopog	88.27 246	LR	LR	15 20 12.8
PMTG	Montargil	88.37 314	eP	P	14 42 48.8 +0.1
EVO	Evora	88.55 314	eP	P	14 42 51.6
EVO	comp=Z,33nm,1.7s	88.55 314	eP	P	14 42 50.1 +0.6
PBEJ	Beja	88.75 313	eP	P	14 42 51.2 +0.8
PBEJ	comp=Z,21nm,1.7s	88.75 313	eP	P	14 42 53.9
PVAQ	Vaqueiros	89.01 313	eP	P	14 42 52.2 +0.5
PVAQ	comp=Z,26nm,2.0s	89.01 313	eP	P	14 42 57.3
PVAQ	comp=Z,26nm,2.0s	89.01 313	eP	P	15 20 22.6
PVAQ	comp=Z,26nm,2.0s	89.01 313	eP	P	15 25 59.3
MESJ	Messeja	89.08 313	eP	P	14 42 54.4 -0.7
MESJ	Messeja	89.08 313	eP	P	14 42 52.8
MESJ	Messeja	89.08 313	eP	P	14 42 52.6 +0.5
MESJ	Messeja	89.08 313	eP	P	14 43 15.6
MESJ	Messeja	89.08 313	eP	P	14 42 51.4 -0.7
PCVE	Castro Verde	89.09 313	eP	P	14 42 52.9 +0.8
PCVE	comp=Z,37nm,2.0s	89.25 313	eP	P	14 42 55.4
PBDV	Barranco-do-V	89.25 313	eP	P	14 42 53.0 +0.2
PBDV	comp=Z,37nm,2.0s	89.25 313	eP	P	14 42 56.6
KSANE	Kasane	89.67 250	I Amb	I Amb	14 42 56.3
PVFI	Vila Flor	89.89 313	eP	P	14 42 55.8 0.0
LLLB	Lilloet	91.10 28	I Amb	I Amb	14 43 05.6
FCC	Fort Churchill	91.70 10	I Amb	I Amb	14 43 05.0
LRBT	Labate	92.90 243	LR	LR	15 22 50.0
GNW	Green Mountain	93.02 30	I Amb	I Amb	14 43 12.3
D05A	comp=Z,21nm,1.3s	93.68 30	I Amb	I Amb	14 43 16.1
RPZ	Rata Peaks	93.92 138	LR	LR	15 28 40.3
FFC	Flin Flon	94.00 15	P	P	14 43 13.9 -0.6
FFC	Flin Flon	94.00 15	P	P	14 43 15.5
FFC	Flin Flon	94.00 15	P	P	14 43 13.9 -0.6
URZ	Urewera	94.63 313	LR	LR	15 29 53.5
C09A	Christman Ranch	94.77 28	I Amb	I Amb	14 43 20.5
NEW	Newport	94.86 27	I Amb	I Amb	15 28 32.4
MXC	Moxie City	94.89 29	I Amb	I Amb	14 43 23.2
BOSA	Boshof	94.95 240	P	P	14 43 17.9 -1.5
BOSA	comp=Z,3.1nm,0.5s, baz=73,slow=4.2,SNR=9.8	94.95 240	LR	LR	15 25 14.7
G04A	Mulino	94.97 31	I Amb	I Amb	14 43 23.4
TORD	Torodi Ar. Bea	95.08 288	P	P	14 43 19.3 -0.9
TORD	comp=Z,1.1nm,0.3s, baz=67,slow=3.5,SNR=5.9	95.08 288	PP	PP	14 47 08.2 -1.4
TORD	comp=Z,0.7nm,0.3s, baz=94,slow=4.6,SNR=3.9	95.08 288	PP	PP	15 31 14.8
LNOR	Linton Mountain	96.30 29	I Amb	I Amb	14 44 15.1
TSUM	Tsumeb	96.64 252	LR	LR	15 26 53.3
SCHO	Schofield	96.76 355	P	P	14 43 27.0 -0.1
ULM	Lac du Bonnet	99.52 13	PP	PP	14 47 42.9 +0.8
ULM	comp=Z,2.7nm,0.8s, baz=10.0,slow=3.1,SNR=3.1	99.52 13	PP	PP	15 32 51.4
NVAR	Mina Array Bea	102.37 25	P	P	14 43 51.9 -0.1
NVAR	comp=Z,0.1nm,0.5s, baz=308,slow=7.1,SNR=0.8	102.37 25	P	P	14 48 02.8 -0.2
NVAR	comp=Z,1.1nm,0.8s, baz=302,slow=6.8,SNR=3.9	102.37 25	P	P	14 59 53.7 -1.2
PDAR	Pinetale Array	102.37 25	P	P	14 43 52.9 +0.1
PDAR	comp=Z,0.7nm,0.7s, baz=136,slow=5.1,SNR=4.3	102.37 25	PP	PP	14 48 04.7 +0.4
PDAR	comp=Z,0.1nm,0.3s, baz=317,slow=6.6,SNR=2.3	102.37 25	PP	PP	14 59 53.5 -0.9
SYO	Syowa Base	108.02 200	eP	P	14 44 17.5 +0.9
M65A	Syowa Base	108.02 200	eP	P	14 44 20.3 -0.7
M65A	Bushby, Fairmount	110.22 356	P	P	14 48 29.6 +1.0
Y22D	IRIS PASCALL I	110.92 28	P	P	14 48 30.9 +0.5
PP2T	Papeete2	111.56 99	eLR	LR	15 21 23.1
PP2T	comp=Z,550nm,35.8s	111.56 99	eLR	LR	15 21 35.1
TBI	Tubuai	113.91 105	eLR	LR	15 22 35.1
TBI	comp=Z,914nm,31.5s	113.91 105	eLR	LR	15 22 42.0
TAOE	Nuku Hiva Isla	116.10 86	eLR	LR	15 23 34.4
TXAR	Lajitas Array	116.39 28	PKP	PKP	14 48 41.1 +0.2
TXAR	comp=Z,3.3nm,0.9s, baz=218,slow=1.6,SNR=25	116.39 28	PP	PP	14 49 46.6 +0.7
TXAR	comp=Z,0.9nm,0.7s, baz=354,slow=3.9,SNR=3.8	116.39 28	PKP	PKP	14 59 08.8 -0.5
TXAR	comp=Z,1.5nm,0.8s, baz=149,slow=6.6,SNR=15	116.39 28	PKP	PKP	14 48 42.0 -1.1
QSPA	South Pole Qui	118.23 180	PKP	PKP	14 48 42.2 -0.9
QSPA	South Pole Qui	118.23 180	PKP	PKP	14 48 42.2 -0.9
QSPA	comp=Z,7.8nm,0.8s, baz=279,slow=1.2,SNR=38	118.23 180	PKP	PKP	14 59 02.5 0.0
TROLL	Troll, Antarti	120.59 201	PP	PP	14 48 47.4 -0.2
SNA4	Sanae	122.29 201	PP	PP	14 48 49.9 -0.9
SNA4	comp=Z,132nm,0.7s	122.29 201	PKP	PKP	14 48 50.3 -0.4
SNA4	comp=Z,3.9nm,0.6s, baz=161,slow=5.1,SNR=26	122.29 201	PKP	PKP	14 48 46.3 +1

JNK	Nakash	3.17 254	P	Pn	14 31 09.9 +1.8
JNK			eS	Sn	14 31 44.9 0.0
AKK	Akkeshi	3.32 244	eP	Pn	14 31 10.9 +0.8
JAK	Akkeshi	3.42 245	P	Pn	14 31 12.4 +0.8
JAK			eS	Pn	14 31 49.4 -1.6
JTKR	Abashiri-Toko	3.64 263	P	Pn	14 31 16.7 +2.3
JAB	Ashorobuto	3.92 253	P	Pn	14 31 20.7 +2.4
JOB	Onbets	4.03 248	P	Pn	14 31 21.4 +1.7
JOB			eS	Sn	14 32 04.5 -1.2
JCH	Churui	4.47 246	P	Pn	14 31 27.0 +1.2
JCH			eS	Sn	14 32 15.3 -1.2
JKK	Kamakawa 2	4.48 264	P	Pn	14 31 29.5 +2.6
JKA	Kamakawa-asahi	4.55 267	P	Pn	14 31 29.5 +2.6
ASAJ	Asahikawa	4.55 267	P	Pn	14 31 29.7 +2.8
ASAJ	comp=Z,31nm,0.4s,baz=76,slow=20,SNR=183			Sn	14 32 23.8 +5.3
ASAJ	comp=E,42nm,0.5s,baz=82,slow=16,SNR=4.1			LR	14 33 28.5
ERM	Erimo	4.90 241	P	Pn	14 31 34.3 +2.7
ERM	Erimo	4.90 241	cePn	Pn	14 31 34.7 +2.4
ERM			eS	pmax	
JAB	Yuzhno-Sakhal	4.93 260	eP	Pn	14 31 35.9 +3.8
YSS	Ashibetsu	4.94 301	P	Pn	14 31 33.3 +1.2
YSS	Yuzhno-Sakhal	4.94 301	cePn	Pn	14 31 34.0 +1.9
YSS			eS	Sn	14 32 27.5 -0.4
YSS	comp=Z,240nm,0.8s			pmax	
YSS	comp=N,200nm,0.6s			pmax	
YSS	comp=E,170nm,0.4s			pmax	
YSS	comp=Z,300nm,3.0s			pmax	
YSS	comp=N,200nm,2.5s			pmax	
YSS	comp=E,200nm,2.6s			smax	
YSS	comp=N,100nm,3.2s			smax	
YSS	comp=E,200nm,2.3s			smax	
YSS	comp=N,70nm,0.7s			smax	
YSS	comp=E,100nm,0.7s			MLR	
YSS	comp=Z,200nm,9.4s			MLR	
YSS	Yuzhno-Sakhal	4.94 301	eP	Pn	14 31 34.1 +1.9
YSS			AMB	AMB	14 31 34.8
YSS	comp=Z,510nm,0.5s			eS	14 32 27.7 -0.2
JNSK	Urakawa-nobuka	5.02 245	P	Sn	14 31 34.1 +0.8
JWK2	Keihoku	5.04 281	P	Pn	14 31 37.3 +3.8
UGL	Uglegorsk	6.53 316	ePn	Pn	14 31 48.8 -5.0
UGL			eS	pmax	
UGL	comp=Z,100nm,1.0s			Pn	14 31 55.4 +1.6
UGL	Uglegorsk	6.53 316	eP	AMB	14 32 01.8
UGL	comp=Z,130nm,0.6s			eS	14 33 04.8 -1.9
JANG	Nango	6.87 235	eS	Sn	14 33 09.3 -6.0
JTM	Tenimbayashi	6.89 240	Pn	Pn	14 31 58.9 +0.1
TYV	Tymovskoe	7.60 329	eP	ePn	14 32 11.3 +2.9
TYV			eS	Sn	14 33 35.5 +2.6
TYV	comp=Z,100nm,2.3s			pmax	
TYV	comp=Z,20nm,0.7s			pmax	
TYV	comp=N,100nm,2.2s			smax	
TYV	comp=E,100nm,2.2s			smax	
TYV	comp=N,10.0nm,1.3s			smax	
TYV	comp=E,11nm,1.3s			smax	
TYV	Tymovskoe	7.60 329	eP	Pn	14 32 10.7 +2.3
TYV			AMB	AMB	14 32 12.2
SKR	Severo-Kuril's	7.84 36	ePn	Pn	14 32 11.9 +0.2
SKR			pmax	pmax	
SKR	comp=Z,120nm,0.6s			MLR	
SKR	Severo-Kuril's	7.84 36	eP	Pn	14 32 12.2 +0.5
SKR			AMB	AMB	14 32 14.6
SKR	comp=Z,150nm,0.5s			eS	14 33 36.6 -2.1
SKR			A	A	14 33 42.1
SKR	comp=Z,40nm,0.3s			A	14 33 42.1
PAU	Pauzhetka	8.72 35	eP	Pn	14 32 24.0 +0.3
PAU			AMB	AMB	14 32 24.7
PAU	comp=Z,90nm,0.5s			eS	14 33 57.4 -2.8
JMM	Marumori	9.04 225	Pn	Pn	14 32 26.7 -1.5
NKL	Nikolayevsk	10.17 331	eP	Pn	14 32 44.3 +0.8
PEA0B	Petrovavlovsk	10.34 31	iPn	Pn	14 32 45.2 -0.6
PETK	Petrovavlovsk	10.34 31	P	Pn	14 32 45.7 0.0
PETK	comp=Z,25nm,0.6s,baz=200,slow=10,SNR=22.1			LR	14 37 16.8
GRNR	Gornyy	10.47 311	iPn	Pn	14 32 49.5 +1.9
GRNR			pmax	pmax	
PET	Petrovavlovsk	10.64 34	Pn	Pn	14 32 49.0 -0.8
PET	Petrovavlovsk	10.64 34	ePn	Pn	14 32 50.0 +0.2
PET			pmax	pmax	
PET	comp=Z,9.0nm,0.6s			Pn	14 33 48.9 -0.9
MJAO	Matsu Arr-Jizo	11.68 229	ePn	Pn	14 33 00.0 -0.1
MJAO			pmax	pmax	
MJAO	comp=Z,3.0nm,0.6s			Pn	14 32 58.7 -1.6
MAJO	Matsushiro	11.40 229	Pn	Pn	14 32 57.7 -1.6
MJAR	Matsushiro Arr	11.40 229	Pn	Pn	14 33 00.0 -0.3
MJAR	comp=Z,3.1nm,0.6s,baz=27,slow=14,SNR=19			Sn	14 35 11.9 +6.1
USA0B	Ussuriysk Arr	12.12 274	iPn	Pn	14 33 10.5 +0.5
USRK	Ussuriysk Ar.	12.12 274	P	Pn	14 33 10.7 +0.7
KLR	Kul'dur	12.63 298	P	Pn	14 33 15.8 -1.1
KLR	comp=Z,10nm,0.7s,baz=91,slow=13,SNR=16			Pn	14 33 18.9 +2.0
KLR	Kul'dur	12.63 298	cePn	Pn	14 33 18.9 +2.0
KLR			pmax	pmax	
KLR	comp=Z,5.0nm,1.0s			eP	14 33 16.8 -0.1
MSHR	Mys Shultsa	12.63 298	iPn	Pn	14 33 22.8 +0.4
MA2	Magadan	15.10 4	P	Pn	14 33 48.5 -0.5
MA2	comp=Z,12nm,0.7s,baz=192,slow=8.4,SNR=12			Pn	14 33 48.4 -0.6
MA2	Magadan	15.10 4	ceP	Pn	14 33 48.4 -0.6
MA2			pmax	pmax	
MA2	comp=Z,24nm,1.4s			eP	14 33 48.4 -0.6
BNX	BinXian	15.22 282	iP	P	14 33 52.3 -1.5
BNX			pmax	pmax	
HEH	Heihe	15.61 299	eP	Pn	14 33 55.8 +0.2
HEH			pmax	pmax	
HEH	comp=Z,7.0nm,0.8s			pmax	
HEH	comp=Z,130nm,5.7s			pmax	
ZEA	Zeya	16.84 311	eP	Pn	14 34 13.1 +1.5
ZEA			pmax	pmax	
ZEA	comp=Z,10.0nm,0.9s			Pn	14 34 09.6 -1.2
KRSR	Korea Array	17.33 253	P	Pn	14 34 16.6 -0.3
SEY	Seymchan	18.54 5	P	P	14 34 29.3 -0.9
SEY	comp=Z,30nm,0.7s,baz=184,slow=8.3,SNR=69			PcP	14 38 52.1 -4.0
YAK	Yakutsk	20.80 334	P	P	14 34 52.5 -2.3
YAK	Yakutsk	20.80 334	P	P	14 34 52.9 -2.0
YAK	comp=Z,49nm,0.3s,baz=125,slow=3.3,SNR=21			P	14 34 52.8 -2.0
YAK	comp=Z,49nm,0.3s			eP	14 34 52.8 -2.0
YAK			pmax	pmax	
YAK	comp=N,11nm,1.0s			pmax	

YAK	comp=E,7.0nm,1.3s			pmax	pmax
BILL	Bilibino	25.26 15	P	P	14 35 37.3 -1.2
BILL	Bilibino	25.26 15	ceP	P	14 35 37.8 -0.7
BILL			pmax	pmax	
BILL	comp=Z,4.0nm,0.6s			eP	14 35 37.8 -0.7
NJ2	Nanjing	26.52 252	eP	P	14 35 51.6 +1.3
NJ2			pmax	pmax	
HHC	Hu-ho-hao-te	27.54 276	eP	P	14 35 58.9 -0.6
HHC			pmax	pmax	
HHC	comp=Z,61nm,0.8s			pmax	
SPIA	Saint Paul Isl	28.25 49	P	P	14 36 06.9 +1.4
NIKH	Nikolski High	28.73 58	P	P	14 36 11.4 +1.5
H11N2	WAKE ISLAND Hy	28.92 143	T	T	15 07 13.2
H11N1	WAKE ISLAND Hy	28.93 143	T	T	15 07 15.4
H11B	WAKE ISLAND Hy	28.94 143	T	T	15 07 15.7
GAMB	Gambell	29.33 35	P	P	14 36 16.6 +1.6
SONM	Songino Array	29.34 292	P	P	14 36 14.5 -1.0
H11S1	WAKE ISLAND Hy	29.93 144	T	T	15 08 30.7
H11S3	WAKE ISLAND Hy	29.93 144	T	T	15 08 33.0
H11S2	WAKE ISLAND Hy	29.94 144	T	T	15 08 31.9
UNV	Unalaska Valle	30.13 56	P	P	14 36 23.8 +1.6
M1K	Mekoryuk	30.87 43	P	P	14 36 29.3 +0.7
TNA	Tin City	31.50 33	P	P	14 36 34.7 +0.6
TNA			IAMB	IAMB	14 36 38.4
TNA	comp=Z,13nm,0.9s			P	14 36 34.4 +0.3
K13K	Kusilvak Mount	31.90 40	P	P	14 36 39.0 +1.3
FALS	False Pass	31.93 54	P	P	14 36 39.4 +1.5
F14K	Arctic Creek	32.10 34	P	P	14 36 40.0 +0.6
ANM	Nome	32.21 35	P	P	14 36 41.0 +0.7
M13K	Dall Lake	32.27 43	P	P	14 36 41.8 +0.9
J14K	Nanvanarak Lak	32.56 39	P	P	14 36 44.0 +0.6
L14K	Kuka Creek	32.73 42	P	P	14 36 46.9 +2.1
L14K			IAMB	IAMB	14 36 47.8
L14K	comp=Z,12nm,0.9s			P	14 36 46.0 +1.1
F15K	North Star Dit	32.83 34	P	P	14 36 46.1 +0.3
G15K	WAKULAK	32.88 35	P	P	14 36 46.5 +0.3
M14K	Bethel	32.99 43	P	P	14 36 48.9 +1.7
M14K	Bethel	32.99 43	P	P	14 36 48.2 +1.0
O14K	Tigykauiv M	33.20 46	P	P	14 36 49.7 +0.6
L15K	Unalak Mountain	33.34 41	P	P	14 36 50.9 +0.7
K15K	Wolf Creek Mou	33.41 40	P	P	14 36 51.6 +0.7
C16K	Lisburne Hills	33.43 29	P	P	14 36 50.8 -0.2
H16K	Elim	33.54 36	P	P	14 36 52.2 +0.3
SDPT	Sand Point	33.60 53	P	P	14 36 53.0 +0.5
M15K	Kasigluk River	33.61 43	P	P	14 36 53.4 +0.8
G16K	Koyuk River	33.67 35	P	P	14 36 53.7 +0.7
N15K	Kwethluk River	33.86 44	P	P	14 36 59.9 +2.1
N15K			IAMB	IAMB	14 36 58.1
N15K	comp=Z,12nm,0.9s			P	14 36 55.3 +0.5
O15K	Ungalikthiuk R	33.94 46	P	P	14 36 56.3 +0.8
J16K	Anvik River	33.98 39	P	P	14 36 57.0 +1.2
J16K	Anvik River	33.98 39	P	P	14 36 56.2 +0.4
D17K	Noatak River	34.03 30	P	P	14 36 56.0 -0.2
I17K	Unalakleet	34.05 38	P	P	14 36 56.6 +0.3
CHNA	Chernabura Isl	34.14 54	P	P	14 36 58.7 +1.5
RDOG	Red Dog Mine	34.21 30	P	P	14 36 58.2 +0.4
C17K	Delong Mountai	34.25 29	P	P	14 36 58.8 +0.6
L16K	Owhat River	34.30 42	P	P	14 36 59.8 +1.3
L16K			IAMB	IAMB	14 37 00.9
L16K	comp=Z,9.8nm,0.8s			P	14 36 59.3 +0.7
E17K	Hotham Inlet	34.32 32	P	P	14 36 59.2 +0.5
F17K	Baldwin Pennin	34.37 33	P	P	14 36 59.4 +0.4
G17K	Kiwalik Mounta	34.38 35	P	P	14 36 59.6 +0.4
M16K	Timber Creek	34.48 43	P	P	14 37 01.7 +1.6
M16K			IAMB	IAMB	14 37 02.8
M16K	comp=Z,13nm,0.9s			P	14 37 00.6 +0.4
N16K	Nisik Lake	34.54 44	P	P	14 37 01.0 +0.3
H17K	Granite Mounta	34.57 36	P	P	14 37 01.6 +0.7
J17K	VABM Dome	34.68 39	P	P	14 37 03.1 +1.2
J17K			IAMB	IAMB	14 37 04.3
J17K	comp=Z,7.7nm,0.7s			P	14 37 02.0 +0.1
O16K	Kokwok River B	34.84 45	P	P	14 37 03.5 +0.3
E18K	Tukpahleark C	34.87 31	P	P	14 37 03.0 -0.4
P16K	Nushagak River	34.88 46	P	P	14 37 03.7 +0.1
L17K	Donlin	34.89 41	P	P	14 37 04.6 +0.9
K17K	Iditarod	34.95 40	P	P	14 37 05.8 +1.6
K17K			IAMB	IAMB	14 37 07.1
K17K	comp=Z,13nm,0.9s			P	14 37 04.0 -0.2
C18K	Utukok River	35.00 29	P	P	14 37 05.2 +0.6
C18K			IAMB	IAMB	14 37 08.8
C18K	comp=Z,9.3nm,0.7s			P	14 37 04.5 -0.1
B18K	Kokolik River	35.02 28	P	P	14 37 04.7 0.0
F18K	Selawik	35.03 33	P	P	14 37 04.7 0.0
R16K	Pilot Point	35.12 49	P	P	14 37 06.4 +0.7
M17K	Hoitna River	35.24 42	P	P	14 37 07.4 +0.7
H18K	Honhosa River	35.26 36	P	P	14 37 06.7 -0.1
G18K	Tagawik	35.27 34	P	P	14 37 07.2 +0.3
N17K	Nushagak Hills	35.32 44	P	P	14 37 08.6 +1.2
O17K	Koliganek Bris	35.35 45	P	P	14 37 08.9 +1.2
A19K	Wainwright	35.54 27	P	P	14 37 09.9 +0.8

L18K	Granite Mounta	35.65 41	IAMB	IAMB	14 37 13.4
L18K	comp=Z,15nm,1.1s			P	14 3







Table with columns: Call Sign, Frequency, Mode, Power, and Name. Includes stations like DPC Dobruska-Polom, PIVO Bartoszewo, and many others.

DJA 22 15:43:54.70.4.5 N, 3.12 8E, h95km, 10km, M4.5/13, mb4.7/12, mb5.0/9, MLV4.8/13, Mw(mB)4.3/9
IDC 22 15:43:54.3.0.6.4 56N, 127.78E, h116km, 5km, mb4.0/23, mbtmp4.3/25, Error ellipse: s-maj=19.1km s-min=8.7km az=74.0
NEIC 22 15:43:55.8.1.6.4 51N, 0.0:08x127.6E:0.1, h126km, 7km, mb4.5/34, Error ellipse: s-maj=18.3km s-min=9.7km az=70.0
ISC 22 15:43:53.0.3.4 55N, 0:04x127.68E:0:06, h104km, n312,

Table with columns: Code, Station Name, Frequency, Mode, Power, and Name. Includes stations like SGSI Sanghie, DAV Davao City (W), and many others.

Table with columns: Call Sign, Frequency, Mode, Power, and Name. Includes stations like KURK Kurchatov, KURBB Kurchatov Arr, and many others.

22d 16h

Table with columns: ID, Name, Azimuth, Altitude, SNR, etc. Rows include L20K, E20K, H20K, K20K, B20K, KDAK, I20K, J20K, Q20K, M20K, SPCR, C21K, G21K, PPLA, B21K, F21K, E21K, CHUM, H21K, CAST, SKT, BRSE, SUA, B22K, D22K, F22K, BPAW, H22K, G22K, E22K, CUT, M22K, L22K, TRF, O22K, RC01, SEW, D23K, COLD, G23K, C23K, H23K, I23K, MCK, NEA2, E23K, KNK, KBZ, PWL, WAT1, TOLK, SML, D24K, M23K, WAT6, E24K, P23K, C24K, COLA, H24K, SCM, DHY, F24K, GLI, POKR, G24K, HDA, ILAR, VNDA, M24K, KLU, D25K, G25K, EYAK, K24K, H25L, PAX, PAX, F25K, PRP, E25K, HARP, RIDG.

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Table with columns: ID, Name, Azimuth, Altitude, SNR, etc. Rows include C26K, BMRM, N25K, N25K, BMAR, KAIM, F26K, SCRK, G26K, C27K, J26L, L26K, I26K, CRQE, M26K, MCARA, K27K, E27K, G27K, I27K, H27K, L27K, M27K, D27M, MESA, CTG, F28M, E28M, I28M, YUK3, D28M, O28M, PINM, DAWY, E29M, H29M, G29M, I29M, PNL, M29M, YUK4, L29M, YUK6, K29M, EPYK, G30M, F30M, I30M, HYT, P29M, J30M, N30M, P30M, MAYO, G31M, INK, O30N, F31M, PLBC, H31M, N31M, S31K, SKAG, M31M, WHY, ARCES, SIT, FARO, S32K, P33M, A36M, MMPY, U33K, CRAIG, FINES, WRAP, AKASO, R33M, C36M, QSPA, TOAD, HFS.

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Table with columns: Code, Station Name, Azimuth, Altitude, SNR, etc. Rows include TXAR, IDC 22 16:12:49.2, CMAR, SONM, TGY, KSRS, MKAR, USRK, IDC 22 16:17:17.8, IDC 22 16:17:19.3, NEIC 22 16:17:33.1, KEBM, J01E, H04D, BBOR, H04A, L04D, B203, ERK, SIF2, B202, SHRK, OBSR, CLRS, HOLB, IDC 22 16:20:52.0, NEIC 22 16:20:56.5, GCMT 22 16:20:56.5, PMG, PMG, PMG, HNR, HNR, COEN, CTAO, EIDS, DZM, WR8, WR8, WBO, WBO, WRA, WRA, WRA.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MTN Manton Dam, AS31 Alice Springs, ASAR Alice Springs, KNRA Kunururra, GUMO Guam, FITZ Fitzroy Cross, URW Urewera, NWAO Nambiro (SRO), LEM Lembaring, JNU Nakatsue, PSI Prapat, PPT Papeete, CMAR Chiang Mai Arr, KLR Kul'dur, PETK Petropavlovsk, VVDA Vanda, SONM Songoing Array, QSPA South Pole Qui, MAW Mawson, MKAR Makanchi Array, ZALV Zalesovo Beam, ILAR Eielson Array, BBB Bella Bella, NEW Newport, TORD Torodi Ar, Bea.

GUC 22 16:22:37.0-0.7, 21.19Sx68.04W, h181km, 5km, ML3.4
SCB 22 16:22:38.6-1.4, 21.19Sx67.84W, h146km, 19km, ML3.3/3,
MW3.0, Error ellipse: s-maj=8.4km s-min=7.5km az=0.0
ISC 22 16:22:37.5-1.8, 21.22Sx0.05-0.67, 90W, 0.05,
h165km, 15km, n28, o08/38, 3C, Chile-Bolivia border

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like PB09 IPOC Station P, PB09 IPOC Station P, PB09 IPOC Station P, PB01 IPOC Station P, PB01 IPOC Station P, PB08 IPOC Station P, PB08 IPOC Station P, PB03 IPOC Station P, PB03 IPOC Station P, G001 Chumizma, G001 Chumizma, G001 Chumizma, PATCX Punta Patache, PB11 IPOC Station P, TA01 Diego Aracena, TA01 Diego Aracena, TA01 Diego Aracena, TA02 Husuqin, YJA Yavi, SOEO Opoqueri, PB05 IPOC Station P, PB05 IPOC Station P, PB16 IPOC Station P, PB16 IPOC Station P, PB14 IPOC Station P, BBOJ La Paz, Jacaqui, SOEJ Jacaqui, BBOE La Paz, Chanca, BBOB La Paz, Gloria, LPAZ La Paz, BBOB La Paz, Bander.

ANF 22 16:26:22.8-0.3, 59.82N, 140.03W, h6km, 2km, ML3.1/45,
Error ellipse: s-maj=2.6km s-min=1.4km az=3.0
NEIC 22 16:26:23.4-2.0, 59.76N, 0.04-140.95W, 0.05, h17km, 4km,
Error ellipse: s-maj=6.3km s-min=3.7km az=194.0
AEIC 22 16:26:23.5-1.1, 59.81N, 0.07-140.94W, 0.07, h13km, 6km,
ML2.8, ML3.0/76(NEIC), Error ellipse: s-maj=10.9km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like CHX Chaix Hills, SAMX Samovor Hills, PCA Pinnacle, PINM Pinnacle, RKAV Rock Avalanche, MESA MESA, MESA MESA, TABL Table Mountain, BCPM Bancas Point, YAH Yahtse, YAH Yahtse, PNL Peninsula, PNL Peninsula, PNL Peninsula, CYK Cape Yakataga, BARK Barkley Ridge, GRNC Granite Creek, GRNC Granite Creek, LOGN Logan Glacier, LOGN Logan Glacier, LOGN Logan Glacier, O28M Mount Upton, O28M Mount Upton, ISLE Juniper Island, ISLE Juniper Island, WAX Waxeil Ridge, CTGM China Glacier, CTGM China Glacier, CTG China Glacier, CTG China Glacier, BGCL Bering Glacier, BGCL Bering Glacier, O29M Mount Kennedy, O29M Mount Kennedy, O29M Mount Kennedy, BARN Barnard Glacie, BARN Barnard Glacie, TGL Tana Glacier, TGL Tana Glacier, CRQE Cirque, CRQE Cirque, SUCK Suckling Hills, SUCK Suckling Hills, CRQM Cirque, BERG Berg Lake, YUK6 Steele Glacier, YUK6 Steele Glacier, P29M Windy Craggy, P29M Windy Craggy, P29M Windy Craggy, YUK6 Outpost Mounta, YUK6 Outpost Mounta, HMT Hamilton, KAIM Kayak Island, KAIM Kayak Island, MCARA McCarthy VSAT, MCARA McCarthy VSAT, VREDI Verde Repeater, VREDI Verde Repeater, YUK4 Talbot Arm, YUK4 Talbot Arm, YAGM Ragged Mountai, YAGM Ragged Mountai, YUK3 Haines Junctio, YUK3 Haines Junctio, HYT Haines Junctio, HYT Haines Junctio, P30M Million Dollar, P30M Million Dollar, BMRM Bremner River, BMRM Bremner River, BMRM Bremner River, GLB Gilahina Butte, GLB Gilahina Butte, GLB Gilahina Butte.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like PLBC Pleasant Camp, EYAK Cordova Ski Ar, EYAK Cordova Ski Ar, N30M Aishikik Lake, N30M Aishikik Lake, N30M Chitina, Valde, N25K Chitina, Valde, N25K Chitina, Valde, M27K Edge Creek, AK, M27K Edge Creek, AK, M27K Edge Creek, AK, M27K Edge Creek, AK, O30N Mendenhall, O30N Mendenhall, BVCY Bancas Creek, BVCY Bancas Creek, M26K Nabesna, AK, M26K Nabesna, AK, HIN Hinchinbrook I, HIN Hinchinbrook I, SKAG Skagway, M29M Somme Creek, M29M Somme Creek, KLU Klutina, KLU Klutina, N31M Braeburn, Yuko, N31M Braeburn, Yuko, N31M Braeburn, Yuko, WHY Whitehorse, WHY Whitehorse, WHY Whitehorse, GLI Glacier Island, GLI Glacier Island, P23K Montague Island, P23K Montague Island, P23K Montague Island, L27K Beaver Creek, L27K Beaver Creek, BCAR Beaver Creek A, HARP HARP, M24K Tolsona, Glenn, M24K Tolsona, Glenn, L29M L29M, L29M L29M, L29M L29M, R32K Eaglecrest, R32K Eaglecrest, P32M Atlin, P32M Atlin, SCM Sheep Creek Mo, SCM Sheep Creek Mo, PWL Port Wells, PWL Port Wells, PAX Paxson, PAX Paxson, KNK Knik Glacier, KNK Knik Glacier, S32K Killisno, S32K Killisno, P33M Teslin, Yukon, P33M Teslin, Yukon, SML Sawmill, SML Sawmill, K27K Chicken, K27K Chicken, SEW Seward, SEW Seward, WAT6 Susitna Watana, WAT6 Susitna Watana, DAWY Dawson, DAWY Dawson, DAWY Dawson, K29M Barlow Dome, K29M Barlow Dome, K29M Barlow Dome, SCRK Sand Creek, SCRK Sand Creek, O22K Cooper Landing, O22K Cooper Landing, DHY Denali Highway, DHY Denali Highway, R01Y Rabbit Creek A, R01Y Rabbit Creek A, K24K Donnelly Dome, K24K Donnelly Dome, K24K Donnelly Dome, J26L Joseph Creek, J26L Joseph Creek, BRSE Bradley Lake S, BRSE Bradley Lake S, CNPJ China Foot, CNPJ China Foot, J30M Hart River, J30M Hart River, TRF Thorofare Moun, TRF Thorofare Moun.

NEIC 22 16:36:20.9-2.0, 21.89S, 0.08-179.39W, 0.08,
h58km, 5km, mb4, 7/66, Error ellipse: s-maj=13.8km
s-min=6.9km az=222.01
IDC 22 16:36:22.3-0.9, 21.87S, 179.48W, h601km, 9km, mb3, 8/18,
az=104.0
ISC 22 16:36:20.9-0.3, 22.06S, 0.05-179.46W, 0.06, h592km,
n247, o191/276, mb4, 6/83, 18C-27D, South of Fiji Islands

22d 16h

Table with columns for call sign, frequency, power, and other technical details. Includes stations like RAO, GLKZ, NIUE, etc.

2019 JUN

Table with columns for call sign, frequency, power, and other technical details. Includes stations like NWAOW, MMRI, MORW, etc.

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Table with columns for call sign, frequency, power, and other technical details. Includes stations like LZH, ZALV, ZALV, etc.





22d 18h

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, and other parameters. Includes stations like D22K, E23K, F24K, B20K, etc.

2019 JUN

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, and other parameters. Includes stations like ZALV, ARCES, KURK, MKAR, BVAR, etc.

1354

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, and other parameters. Includes stations like SJUU, TOF, KIF, RNF, etc.

IDC 22 17:57:15.1±1.0, 10.205x152.08E, h0km, mb3.8/8, mbmp3.8/10, ML3.4/1, Error ellipse: s-maj=32.6km

ISC 22 17:57:21.1±0.9, 10.225x151.80E:0.1, h35km, n10, r123/11, mb3.8/8, D'Entrecasteaux Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, Time, Res. Includes stations like PMG, WRA, ASAR, STKA, etc.

IDC 22 18:11:46.1±1.9, 7.745x122.82E, h0km, mb3.3/1, mbmp3.5/3, ML3.6/2, Error ellipse: s-maj=249.1km

s-min=29.6km az=57.0, Flores Sea

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, Time, Res. Includes stations like WRA, ASAR, MKAR, etc.

NOU 22 18:20:12.9, 38.33S, 176.60E, h133km, MLV3.7/17, North Island, New Zealand

WEL 22 18:20:16.0±1.2, 38.6°x17.7E, h93km, 10km, M3.2/78, ML2.8/20, MLV3.2/78, Error ellipse: s-maj=8.5km

s-min=6.2km az=38.7, confirmed

ISC 22 18:20:12.9±1.5, 38.245S, 176.56E:0.04, h128km, 8km, n145, r192/155, North Island

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, SNR, Time, Res. Includes stations like TARZ, RRRR, HLRZ, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Lists various seismic stations and their parameters.

Solution. Duration: 157 Moment tensor: Scale 10^16Nm; M1: -0.28; M2: 2.68; M3: -2.40; M4: 0.45; M5: -2.84; M6: -2.31; ...

region Code Station Name Az Az2 Phase ID Time Res ISC

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Lists seismic stations in the region.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Lists seismic stations in the region.

IDC 22 18:20:20.3; 1.0, 28.39N; 104.91E, h0km, mb3.6/9, mbtmp3.7/9, MS3.2/2, Error ellipse: s-maj=28.3km

s-min=18.3km s=18.3km

ISC 22 18:20:23.9 0.9, 28.58N; 0.1, 105.0E; 0.1, h19km, n11, s=095/10, mb3.6/8, Sichuan

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Lists seismic stations in the region.

IDC 22 18:34:31.7; 0.5, 17.11S; 171.52E, h0km, mb4.2/17, mbtmp4.3/20, ML4.9/2, MS4.1/51, Error ellipse: s-maj=18.2km s-min=15.1km az=104.0

NOU 22 18:34:32.8, 16.91S; 171.32E, h0km, mb4.8/21, Vanuatu Islands Region

NEIC 22 18:34:33.4; 1.2, 17.06S; 0.08, 171.47E; 0.04, h10km, 1km, mb5.0/123, MW5.0/20, Error ellipse: s-maj=14.8km

s-min=5.0km az=20.0

ISC 22 18:34:33.3, 17.07S; 171.49E, h12km

NEIC 22 18:34:33.3, 16.87S; 171.59E, h12km, Moment Tensor

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Lists seismic stations in the region.

22d 18h

K15K	Wolf Creek Mou	81.90	12	P	P	18 46 52.1 -0.6
J14K	Nanvaranak Lak	81.92	11	P	P	18 46 52.1 -0.7
M17K	Holifna River	82.02	15	P	P	18 46 52.5 +0.9
HOM	Homer	82.09	18	P	P	18 46 53.8 0.0
O20K	Slope Mountain	82.16	17	P	P	18 46 53.8 -0.5
N19K	Bonanza Creek	82.26	16	P	P	18 46 54.1 -0.7
BRSE	Bradley Lake S	82.43	18	P	P	18 46 56.1 +0.5
L17K	Donlin	82.46	14	P	P	18 46 56.5 +0.8
M18K	Stony River	82.49	15	P	P	18 46 56.2 +0.3
L18K	Granite Mounta	82.91	14	P	P	18 46 58.0 0.0
L18K	Granite Mounta	82.91	14	P	P	18 46 58.0 0.0
K17K	Iditarod	82.97	13	P	I Amb	18 46 58.1 -0.2
K17K	Iditarod	82.97	13	P	P	18 46 58.7 +0.3
J16K	Anvik River	82.98	12	P	P	18 46 59.2 +0.8
SEW	Seward	83.11	19	P	P	18 46 59.4 +0.4
N20K	Mount Spurr	83.20	17	P	P	18 46 59.8 +0.2
SPCR	Spurr Chakacha	83.20	17	P	P	18 46 59.8 +0.2
SLKM	Skialk Lake	83.20	18	P	P	18 46 59.3 -0.3
M19K	Big River Lodg	83.21	15	P	I Amb	18 47 00.2 +0.2
M19K	Big River Lodg	83.21	15	P	P	18 46 59.8 +0.2
ANM	Nome	83.28	10	P	P	18 47 00.1 +0.2
L19K	White Mountain	83.32	15	P	P	18 47 00.1 -0.1
L19K	White Mountain	83.32	15	P	P	18 47 00.2 0.0
J17K	VABM Dome	83.40	13	P	P	18 47 00.7 +0.2
I17K	Unalakleet	83.51	12	P	P	18 47 01.1 +0.1
M20K	Styx River	83.52	16	P	P	18 47 01.2 0.0
Q23K	Middleton Isla	83.56	20	P	P	18 47 01.5 +0.1
P23K	Montague Islan	83.66	19	P	P	18 47 02.4 +0.5
RC01	Rabbit Creek A	83.81	18	P	P	18 47 02.8 +0.1
L20K	Farewell, AK	83.82	15	P	P	18 47 02.5 -0.3
SUA	Susitna One	83.82	17	P	P	18 47 02.9 0.0
SUA	Susitna One	83.82	17	P	P	18 47 02.7 -0.2
H16K	Elim	83.89	11	P	P	18 47 02.9 -0.1
G15K	Niukuk	83.90	10	P	P	18 47 02.5 -0.6
F14K	Arctic Creek	83.98	9	P	P	18 47 03.0 -0.4
J18K	Innoko River	83.98	14	P	P	18 47 04.0 +0.5
J18K	Innoko River	83.98	14	P	P	18 47 03.2 -0.3
SKT	Skwentna	84.03	17	P	P	18 47 03.3 -0.5
PWL	Port Wells	84.05	18	P	P	18 47 03.5 -0.4
PWL	Port Wells	84.05	18	P	P	18 47 04.2 +0.3
BELA	Belgrano 2	84.06	175	I Amb	I Amb	18 47 02.5 -1.4
BELA	Belgrano 2	84.06	175	I Amb	I Amb	18 47 14.3
YBH	Yreka Blue Hor	84.22	43	LR	LR	19 16 35.3
M22K	Willow	84.23	17	P	P	18 47 05.0 +0.2
PMR	Palmer	84.39	18	P	P	18 47 05.0 -0.6
PMR	Palmer	84.39	18	P	P	18 47 05.7 +0.2
ISA	Isabella, Lake	84.41	50	P	I Amb	18 47 06.0 -0.4
ISA	Isabella, Lake	84.41	50	P	I Amb	18 47 14.3
GLI	Glacier Island	84.44	19	P	P	18 47 06.3 +0.4
GLI	Glacier Island	84.44	19	P	P	18 47 06.1 +0.2
KNK	Knik Glacier	84.44	18	P	P	18 47 06.4 +0.4
KNK	Knik Glacier	84.44	18	P	P	18 47 06.1 +0.2
F15K	North Star Dit	84.46	10	P	P	18 47 06.0 +0.1
K20K	Telida	84.51	15	P	P	18 47 05.7 -0.5
K20K	Telida	84.51	15	P	P	18 47 06.4 +0.1
FID	Port Fidalgo	84.53	19	P	P	18 47 05.8 -0.6
G16K	Koyuk River	84.56	11	P	P	18 47 06.1 -0.2
KAIM	Kayak Island	84.58	21	P	P	18 47 06.7 +0.1
GHO	Glory Hole Cre	84.59	18	P	I Amb	18 47 06.8 +0.1
GHO	Glory Hole Cre	84.59	18	P	I Amb	18 47 17.1
H17K	Granite Mounta	84.60	12	P	P	18 47 07.0 +0.3
PPLA	Purkeypille	84.60	16	P	P	18 47 06.5 -0.4
EYAK	Cordova Ski Ar	84.62	20	P	P	18 47 06.5 -0.2
EYAK	Cordova Ski Ar	84.62	20	P	I Amb	18 47 13.4
EYAK	Cordova Ski Ar	84.62	20	P	P	18 47 07.0 +0.2
J19K	Poorman	84.69	14	P	P	18 47 07.6 +0.5
J19K	Poorman	84.69	14	P	I Amb	18 47 15.0
J19K	Poorman	84.69	14	P	P	18 47 06.4 -0.6
SML	Sawmill	84.79	18	P	P	18 47 07.5 -0.2
SML	Sawmill	84.79	18	P	P	18 47 07.8 0.0
BEKR	Beckworth	84.93	46	P	P	18 47 08.4 -0.7
WAKR	Walker	84.96	47	P	P	18 47 08.2 -1.1
M23K	Glacier View	84.96	18	P	P	18 47 08.7 +0.2
G17K	Kiwalik Mounta	84.96	11	P	P	18 47 09.2 +0.7
DIV	Divide	85.05	19	P	P	18 47 09.3 +0.2
GCSA	Galena City Sc	85.06	13	P	P	18 47 09.5 +0.7
CAST	Castle Rocks	85.06	16	P	P	18 47 09.0 0.0
PFO	Pinyon Flats O	85.06	53	P	P	18 47 09.9 0.0
PFO	Pinyon Flats O	85.06	53	P	I Amb	18 47 12.7
PFO	Pinyon Flats O	85.06	53	LR	LR	19 16 36.1
H18K	Honhosa River	85.10	12	P	P	18 47 09.6 +0.5
BGLC	Bering Glacier	85.11	21	P	P	18 47 09.8 +0.6
SCM	Sheep Creek Mo	85.11	18	P	P	18 47 09.4 +0.1
SCM	Sheep Creek Mo	85.11	18	P	P	18 47 09.6 +0.2
J20K	Novinta River	85.19	14	P	I Amb	18 47 08.7 -0.9
J20K	Novinta River	85.19	14	P	I Amb	18 47 17.0
J20K	Novinta River	85.19	14	P	P	18 47 10.4 +0.8
SMAI	San Martin Ant	85.19	161	P	P	18 47 10.3 +0.6
KLU	Klutina	85.28	19	P	I Amb	18 47 10.2 0.0
KLU	Klutina	85.28	19	P	P	18 47 26.4
KLU	Klutina	85.28	19	P	P	18 47 10.9 +0.7
BMRM	Bremner River	85.30	20	P	P	18 47 10.7 +0.4
YAK	Yakutsk	85.48	342	P	I Amb	18 47 11.5 +0.4
YAK	Yakutsk	85.48	342	P	I Amb	18 47 21.5
YAK	Yakutsk	85.48	342	LR	LR	19 24 36.9
GSC	Goldstone, Bar	85.50	51	P	P	18 47 11.9 -0.1

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GSC	comp=Z,15nm,1.8s	85.50	48	P	I Amb	18 47 36.5
LHV	Little Huntoon	85.50	48	P	P	18 47 11.9 +0.2
LHV	Little Huntoon	85.50	48	P	I Amb	18 47 23.4
DSP	Deep Springs	85.51	49	P	P	18 47 11.5 -0.3
PAHR	Pah Rah Range	85.53	46	P	P	18 47 11.1 -0.9
WATI	Susitna Watana	85.54	17	P	P	18 47 12.4 +1.0
TRF	Therofare Moun	85.56	16	P	P	18 47 12.5 +0.8
WAT6	Susitna Watana	85.57	18	P	P	18 47 12.9 +1.2
MESA	MESA	85.61	21	P	P	18 47 12.2 +0.1
CRQM	Crirque	85.63	20	P	I Amb	18 47 12.1 0.0
CRQM	Crirque	85.63	20	P	I Amb	18 47 19.0
I20K	Naaghdeneel	85.63	14	P	P	18 47 12.1 +0.3
I20K	Naaghdeneel	85.63	14	P	P	18 47 13.0 +1.2
CRQE	Crirque	85.64	21	P	P	18 47 12.4 +0.3
RYN	Ryan	85.66	48	P	I Amb	18 47 12.1 -0.7
RYN	Ryan	85.66	48	P	I Amb	18 47 14.8
M24K	Tolsona, Glenn	85.67	19	P	P	18 47 12.7 +0.6
G18K	Tagagawik	85.70	12	P	I Amb	18 47 11.3 -0.8
G18K	Tagagawik	85.70	12	P	I Amb	18 47 22.8
G18K	Tagagawik	85.70	12	P	P	18 47 13.0 +0.9
F17K	Baldwin Pennin	85.70	11	P	P	18 47 13.2 +1.1
NVAR	Mina Array Bea	85.72	48	P	P	18 47 13.3 -0.9
NVAR	Mina Array Bea	85.72	48	P	P	18 47 13.3 +0.3
NVAR	Mina Array Bea	85.72	48	LR	LR	19 17 16.1
N25K	Chitina, Valde	85.78	19	P	I Amb	18 47 12.8 +0.1
N25K	Chitina, Valde	85.78	19	P	I Amb	18 47 19.0
N25K	Chitina, Valde	85.78	19	P	P	18 47 12.8 +0.1
GRAC	Gravine Rang	85.79	49	P	P	18 47 14.2 +0.9
H19K	Roundabout Mou	85.83	13	P	P	18 47 12.9 +0.2
H19K	Roundabout Mou	85.83	13	P	P	18 47 13.7 +1.0
NV11	Mina Array Sit	85.83	48	P	I Amb	18 47 13.4 -0.2
NV11	Mina Array Sit	85.83	48	P	I Amb	18 47 20.7
VRDI	Verde Repeater	85.87	20	P	I Amb	18 47 12.8 -0.5
VRDI	Verde Repeater	85.87	20	P	I Amb	18 47 20.0
BPWA	Bear Paw Mtn.	85.90	16	P	P	18 47 13.8 +0.6
GLB	Gilahina Butte	85.91	20	P	P	18 47 13.4 +0.1
RND	Reindeer	85.91	17	P	I Amb	18 47 13.3 -0.1
RND	Reindeer	85.91	17	P	I Amb	18 47 19.3
J05D	Fort Rock, OR	85.92	42	P	I Amb	18 47 13.3 -0.6
J05D	Fort Rock, OR	85.92	42	P	I Amb	18 47 21.0
GWY	Genwarter Val	85.96	50	P	P	18 47 14.2 -0.2
CRAG	Craig	85.98	28	P	P	18 47 14.4 +0.7
SIT	Sitka	86.02	26	P	P	18 47 14.4 +0.6
DHY	Denali Highway	86.06	17	P	P	18 47 14.6 +0.4
MCARA	McCarthy VSAT	86.12	20	P	P	18 47 15.6 +1.3
F18K	Selawik	86.13	11	P	P	18 47 15.2 +1.0
H20K	Antloneega Mo	86.13	13	P	P	18 47 15.2 +0.9
MCK	McKinley	86.15	16	P	P	18 47 15.3 +0.8
PINM	Pinnacle	86.15	22	P	P	18 47 15.2 +0.6
PNL	Peninsula	86.17	23	P	P	18 47 15.2 +0.6
E17K	Hotam Inlet	86.18	10	P	P	18 47 15.9 +1.4
HARP	HAARP	86.20	19	P	P	18 47 15.4 +0.7
G19K	Purcell Mounta	86.23	12	P	I Amb	18 47 15.0 +0.2
G19K	Purcell Mounta	86.23	12	P	I Amb	18 47 22.3
G19K	Purcell Mounta	86.23	12	P	P	18 47 14.4 -0.3
S31K	Pelican	86.24	25	P	P	18 47 15.6 +0.7
TPH	Tonopah	86.34	48	P	P	18 47 16.2 0.0
U33K	Whale Pass	86.38	27	P	P	18 47 15.6 -0.1
CTG	Chitina Glacier	86.39	21	P	P	18 47 15.4 -0.4
ULN	Ulaanbaatar	86.45	322	P	P	18 47 17.8 +1.4
BBB	Bella Bella	86.47	32	LR	LR	19 18 15.4
LPIG	La Paz	86.50	64	LR	LR	19 16 44.6
D17K	Noatak River	86.54	9	P	P	18 47 15.2 -1.0
PAX	Paxson	86.54	18	P	P	18 47 15.9 -0.5
V35K	Ketchikan	86.58	29	P	P	18 47 16.2 -0.4
TPNV	Topopah Spring	86.58	50	P	I Amb	18 47 16.8 -0.6
TPNV	Topopah Spring	86.58	50	P</		

Table with columns: Station Name, Azimuth, Altitude, Frequency, Band, and other technical details. Includes stations like KNB Kanab, BMO Blue Mountains, DAWY Dawson, etc.

Table with columns: Station Name, Azimuth, Altitude, Frequency, Band, and other technical details. Includes stations like D28M Stokes Point, TIXI Tikisi, F31M Tsihchic, etc.

Table with columns: Station Name, Azimuth, Altitude, Frequency, Band, and other technical details. Includes stations like CHMS Chumysh, CHMS Tokms, TKM2, etc.





PFVI	Vila Bisbo	5.73 268	ePn	Pn	20 01 26.3 +0.8
PFVI			eSn	Sn	20 02 29.1 -2.0
PFVI			i AML	AML	20 03 14.6
PFVI			i AML	AML	20 03 14.6
PFVI			i AML	AML	20 03 22.8
PFVI	Vila Bisbo	5.73 268	P	Pn	20 01 26.2 +0.8
ZHG	ZHG	5.78 226	P	Pn	20 01 26.5 +0.3
PBRG	Braganca	5.78 319	ePn	Pn	20 01 27.2 +1.1
PBRG			eSn	Sn	20 02 29.9 -2.3
PBRG			i AML	AML	20 03 08.7
PBRG			i AML	AML	20 03 10.7
PBRG			i AML	AML	20 03 11.2
PVIS	Viseu	5.79 305	ePn	Pn	20 01 27.7 +1.4
PVIS			eSn	Sn	20 02 31.7 -0.8
ELAN	Lanestosa	5.83 347	Pn	Pn	20 01 28.6 +1.7
ELAN			Pg	Pg	20 01 52.2 -0.3
ELAN			Sg	Sg	20 03 08.5 +0.6
ELAN			i AML	AML	20 03 18.2
ECAL	Cabalor	5.88 320	Pn	Pn	20 01 28.5 +1.0
ECAL			Sn	Sn	20 02 31.4 -3.3
PCAS	Casmilo, Conde	5.90 297	ePn	Pn	20 01 29.1 +1.3
PCAS			eSn	Sn	20 02 34.2 -0.9
PCAS			eSg	Sg	20 03 10.0 -0.1
PCAS			i AML	AML	20 03 12.9
PCAS			i AML	AML	20 03 17.1
PCAS			i AML	AML	20 03 25.2
COI	Coimbra	5.90 299	Pn	Pn	20 01 27.9 +0.2
COI			i Amb_Lg		20 03 13.8
COI	comp=Z,109nm,0.8s				
COI	Coimbra	5.90 299	eSg	Sg	20 03 09.0 -1.2
PSBE	So Bento	5.93 291	ePn	Pn	20 01 29.6 +1.3
PSBE			eSn	Sn	20 02 36.3 +0.3
PSBE			eSg	Sg	20 03 12.1 +0.9
PSBE			i AML	AML	20 03 17.9
PSBE			i AML	AML	20 03 18.9
PSBE			i AML	AML	20 03 22.9
PARRA	Arraiolos	5.95 284	ePn	Pn	20 01 18.5 -1.0
PARRA			eSn	Sn	20 02 16.4 -2.0
PARRA			eSb	Sb	20 02 49.0 -6.5
PARRA			i AML	AML	20 02 49.1
PARRA			i AML	AML	20 02 57.8
PARRA			i AML	AML	20 03 03.1
PVRL	Vila Real	5.99 310	ePn	Pn	20 01 30.9 +1.9
PVRL			eSn	Sn	20 02 37.6 +0.3
PVRL			i AML	AML	20 03 19.3
PVRL			i AML	AML	20 03 19.8
POLO	Lamas de Olo	6.09 311	ePn	Pn	20 01 32.6 +2.1
POLO			eSn	Sn	20 02 38.3 -1.7
POLO			i AML	AML	20 03 25.8
POLO			i AML	AML	20 03 29.8
PMAFR	Mafrã	6.17 285	Pn	Pn	20 01 32.0 +0.6
PMAFR			ePn	Pn	20 01 32.4 +1.0
PMAFR			eSg	Sg	20 02 40.6 -1.1
PMAFR			eSn	Sn	20 03 18.6 -0.1
PMAFR			i AML	AML	20 03 26.5
PMAFR			i AML	AML	20 03 28.4
PMAFR			i AML	AML	20 03 37.3
PCAB	Cabril	6.43 312	ePn	Pn	20 01 36.0 +0.9
PCAB			eSn	Sn	20 02 44.4 -4.0
PCAB			i AML	AML	20 03 29.8
PCAB			i AML	AML	20 03 39.6
PCAB			i AML	AML	20 03 39.6
PGAV	Gaveira, Arco	6.74 313	ePn	Pn	20 01 40.1 +0.7
PGAV			eSn	Sn	20 02 52.7 -3.2
PGAV			i AML	AML	20 03 43.5
PGAV			i AML	AML	20 03 44.2
PGAV			i AML	AML	20 03 46.3
VSL	Villasalto	8.86 74	Pn	Pn	20 02 18.3 +1.4
KEST	Kesra	9.03 98	Pn	Pn	20 02 14.2 +3.4
KEST	comp=Z,0.7nm,0.3s,baz=274,slow=19,SNR=7.1				
KEST	comp=Z,0.3nm,0.3s,baz=266,slow=16,SNR=1.5				
KEST	comp=Z,0.2nm,0.3s				
GERES	GERES Array B	15.86 40	Pn	Pn	20 03 48.4 +1.0
GERES	comp=Z,52nm,21.6s,baz=335,slow=s37				
GERES	comp=Z,0.5nm,0.7s				
TORD	Tordi Ar. Bea	24.49 172	P	P	20 05 21.3 +1.6
TORD	comp=Z,1.2nm,0.3s,baz=0.4,slow=11,SNR=1.5				
TORD	comp=Z,1.2nm,0.3s				

NOU 22 20:41:40.4, 40:28S:175:93E, h80km, MLv4.0/19, North Island, New Zealand

NEIC 22 20:41:42.2, 1.2, 40:13S:0:04:175:69E:0:08, h45km, 11km, mb4.2/5, Error ellipse: s-maj=8.6km s-min=4.8km az=104.0

WEL 22 20:41:42.3, 0.8, 40:14S:17:6E:1, h41km, 8km, M3.9/75, ML4.2/12, MLv3.9/75, Error ellipse: s-maj=6.1km s-min=4.2km az=116.7, confirmed

ISC 22 20:41:42.8, 0.8, 40:19S:0:03:175:82E:0:03, h58km, 5km, n155, s1920/166, mb4.3/4, North Island

Code	Station Name	Δ° AZ°	Phase ID	Time Res	ISC	h m s	ISC
TSZ	Takapari Road	0.17 41	P	Sn	20 41 50.6 -1.2		
TSZ			P	Sn	20 41 56.8 -1.6		
POWZ	Post Office Ro	0.21 190	P	Sn	20 41 51.5 -0.6		
POWZ			P	Sn	20 41 58.0 -0.7		
DVHZ	Dannevirke	0.29 113	P	Sn	20 41 52.1 -0.5		
DVHZ			P	Sn	20 41 59.5 -0.3		
OHWZ	Oheakea	0.38 267	P	Sn	20 41 53.1 -0.2		
OHWZ			P	Sn	20 42 01.3 +0.3		
PHWZ	Porirua Road	0.39 162	P	Sn	20 41 53.7 +0.3		
PNHZ	Pukenui	0.40 47	P	Sn	20 41 52.6 -1.0		
WPHZ	Waipukurau	0.49 76	P	Sn	20 41 54.1 -0.4		
WPHZ			P	Sn	20 42 03.6 +0.6		
MRZ	Mangatainoka R	0.51 201	P	Sn	20 41 54.6 0.0		
MRZ			P	Sn	20 42 02.7 -0.5		
MRZ	Mangatainoka R	0.51 201	Sn	Sn	20 41 54.6 0.0		
MRZ	Angora Road	0.57 119	P	Sn	20 41 55.6 +0.3		
TIWZ	Tintock	0.59 175	P	Sn	20 41 56.0 +0.3		
TIWZ			P	Sn	20 42 05.7 +0.8		
BFZ	Birch Farm	0.59 147	P	Sn	20 41 55.7 +0.1		
BFZ			P	Sn	20 42 05.9 +0.9		
BFZ	Birch Farm	0.59 147	Sn	Sn	20 41 55.8 -0.2		
BFZ			P	Sn	20 41 55.7 +0.1		
PRHZ	Porangahau	0.63 97	P	Sn	20 41 56.0 0.0		
KRHZ	Kereru	0.69 38	P	Sn	20 41 56.0 -0.8		
HOWZ	Holdsworth Sta	0.74 198	P	Sn	20 41 57.5 0.0		
HOWZ			P	Sn	20 42 08.0 -0.9		
WVZ	Wanganui	0.77 304	P	Sn	20 41 57.7 -0.1		
CPWZ	Castlepoint	0.78 158	P	Sn	20 41 58.5 +0.7		
MOVZ	Moawhango	0.78 356	P	Sn	20 41 56.8 -1.2		
MOVZ			P	Sn	20 42 07.6 -1.5		
GWZ	Otaki George	0.80 218	P	Sn	20 41 58.2 +0.1		
GWZ	Puatahi	0.82 79	P	Sn	20 41 59.9 -0.4		
MTVZ	Mangateitei	0.84 342	P	Sn	20 41 58.0 -0.8		
WNVZ	Wahianoa	0.88 349	P	Sn	20 41 58.4 -0.9		
KWHZ	Kaweka Forest	0.89 32	P	Sn	20 41 58.7 -0.7		
KAHZ	Kahurangi	0.90 65	P	Sn	20 41 59.1 -0.4		
TRVZ	Turoa	0.91 347	P	Sn	20 41 59.1 -0.7		
TMWZ	Te Maiti	0.92 177	P	Sn	20 41 59.2 -0.7		
WHVZ	Whangape Hut	0.92 349	P	Sn	20 41 59.1 -0.8		
TUVZ	Tukino	0.93 352	P	Sn	20 41 59.2 -0.7		
MAVZ	Matarangi	0.94 348	P	Sn	20 41 59.4 -0.8		
FWVZ	Fang Z T-bar	0.95 348	P	Sn	20 41 59.6 -0.8		
KWZ	Kapiti Island	0.96 235	P	Sn	20 42 00.3 +0.1		
PKWZ	Pokohiri	0.97 338	P	Sn	20 42 00.9 -0.6		
MTWZ	Mount Morrison	1.00 194	P	Sn	20 42 00.6 +0.1		
MCHZ	McNeill Hill	1.01 43	P	Sn	20 42 00.9 +0.1		
CHVZ	Chateau Observ	1.01 348	P	Sn	20 42 00.4 -0.5		
SNVZ	South Ngauruho	1.01 352	P	Sn	20 42 00.5 -0.5		
NGVZ	Ngauruho	1.02 351	P	Sn	20 42 01.2 -0.3		
OTVZ	Oturene	1.03 353	P	Sn	20 42 00.7 -0.6		
ETVZ	East Tongariro	1.05 356	P	Sn	20 42 00.9 -0.6		
NNVZ	North Ngauruho	1.07 352	P	Sn	20 42 01.3 -0.5		
TAWZ	Te Maari	1.07 355	P	Sn	20 42 01.2 -0.7		
CMVZ	Cannon Point	1.08 212	P	Sn	20 42 01.5 -0.3		
WTVZ	West Tongariro	1.10 351	P	Sn	20 42 01.9 -0.4		
NTVZ	North Tongariro	1.09 354	P	Sn	20 42 01.4 -0.6		
KRVZ	Karewarewa	1.10 353	P	Sn	20 42 01.7 -0.4		
CKHZ	Cape Kidnapper	1.10 62	P	Sn	20 42 01.6 -0.5		
BKZ	Black Stump Fm	1.15 27	P	Sn	20 42 01.8 -0.9		
BKZ			P	Sn	20 42 01.7 -0.9		
BKZ	Black Stump Fm	1.15 27	Sn	Sn	20 42 01.8 -0.9		
BKZ			P	Sn	20 42 01.8 -0.9		
TRVZ	Taurewa	1.15 345	P	Sn	20 42 02.0 -0.8		
TRVZ	Rihia Road	1.21 2	P	Sn	20 42 03.0 -0.5		
TRVZ	Traveler	1.21 185	P	Sn	20 42 03.3 -0.3		
KATZ	Kakaramaea	1.23 351	P	Sn	20 42 03.4 -0.4		
PAWZ	Parauw Farm	1.23 194	P	Sn	20 42 03.4 -0.4		
ARHZ	Aroapanui	1.30 45	P	Sn	20 42 03.7 -0.9		
MSWZ	Moikau Station	1.30 199	P	Sn	20 42 04.0 -0.7		
MSWZ	Moikau Station	1.30 199	P	Sn	20 42 04.1 -0.7		
LRZ	Lake Rotokare	1.31 303	P	Sn	20 42 04.9 +0.1		
HATZ	Hinemaitia	1.31 9	P	Sn	20 42 04.9 -1.0		
RATZ	Rangitukia	1.32 359	P	Sn	20 42 04.3 -0.8		
NAVZ	Naumai	1.33 35	P	Sn	20 42 04.5 -0.7		
VRZ	Vera Road	1.34 322	P	Sn	20 42 04.7 -0.6		
WELZ	Wellington	1.35 216	P	Sn	20 42 04.9 -0.5		
SNZO	South Karori	1.40 217	P	Sn	20 42 05.3 -0.3		
SNZO	South Karori	1.40 217	P	Sn	20 42 05.9 -1.2		
SNZO	South Karori	1.40 217	P	Sn	20 42 23.3 -0.2		
BHW	Baring Head	1.42 210	P	Sn	20 42 05.4 -0.8		
BHW	Baring Head	1.42 210	P	Sn	20 42 05.4 -0.8		
MRHZ	Matea Rd	1.43 19	P	Sn	20 42 05.4 -1.1		
PLWZ	Palliser	1.48 197	P	Sn	20 42 05.9 -0.8		
PLWZ	Palliser	1.48 197	P	Sn	20 42 05.9 -0.8		
WATZ	Waikara	1.48 357	P	Sn	20 42 06.2 -1.0		
WHTZ	Whakaora	1.52 4	P	Sn	20 42 07.1 -0.6		
PREZ	Palmer Road	1.53 303	P	Sn	20 42 08.4 +0.6		
MTHZ	Mangataniwha	1.55 31	P	Sn	20 42 06.9 -1.3		
TCWZ	Tony Channel	1.55 228	P	Sn	20 42 07.3 -0.9		
TCWZ	Tony Channel	1.55 228	P	Sn	20 42 07.3 -0.9		
WHHZ	Waihua	1.56 45	P	Sn	20 42 07.1 -1.1		
DUVZ	D'Urville Isla	1.57 246	P	Sn	20 42 07.5 -0.9		
DREZ	Durham Road	1.60 308	P	Sn	20 42 08.9 +0.2		
MHEZ	Mangahewa	1.60 38	P	Sn	20 42 09.4 +0.4		
RAHZ	Rahi	1.60 38	P	Sn	20 42 07.4 -1.4		
NEZ	North Egmont	1.61 304	P	Sn	20 42 09.5 +0.5		
KHEZ	Kahui Hut	1.65 302	P	Sn	20 42 09.5 0.0		
KHEZ	Kahui Hut	1.65 302	P	Sn	20 42 09.8 +0.3		
NMEZ	Namu Road	1.68 297	P	Sn	20 42 10.5 +0.6		
WRPZ	Whangaparaitiri	1.70 0	P	Sn	20 42 10.8 -0.8		
KUZ	Kaahu Road	1.70 0	P	Sn	20 42 09.2 -0.9		
PKE	Pukeitei	1.73 305	P	Sn	20 42 11.0 +0.6		
PRRZ	Plateau Road	1.75 15	P	Sn	20 42 09.7 -1.0		
NBEZ	Newall Road No	1.76 301	P	Sn	20 42 11.5 +0.6		
RTZ	Ruatuhuna	1.81 30	P	Sn	20 42 10.2 -1.5		
PLVZ	Palliser	1.83 336	P	Sn	20 42 09.8 -0.8		
HIZ	Haiti	1.83 336	P	Sn	20 42 11.4 -0.5		
HIZ	Haiti	1.83 336	S	Sn	20 42 36.8 +2.8		
HIZ	Haiti	1.83 336	P	Sn	20 42 11.0 -0.9		
SNGZ	Shannon Statio	1.83 41	P	Sn	20 42 10.2 -1.7		
KNZ	Kokohu	1.85 52	P	Sn	20 42 10.3 -1.8		
GRRZ	Galatos Road	1.85 54	P	Sn	20 42 11.5 -0.7		
MURZ	Murupara	1.86 24	P	Sn	20 42 11.1 -1.2		

ILA	ilan	1.54 314	eP	Pn	21 00 30.8 +0.8	ECL		S	Sn	21 01 03.0 -1.5	
ILA			eS	Sn	21 00 48.1 -1.0	TPUB	Ta-pu	2.19 260	P	Pn	21 00 40.8 +1.8
NTC	Toucheng	1.55 318	eP	Pn	21 00 30.2 +0.1	TPUB	Ta-pu	2.19 260	P	Sn	21 00 40.9 +2.0
NTC			eS	Pn	21 00 48.3 -1.0	TPUB	Ta-pu	2.19 260	S	Sn	21 01 06.7 +1.5
EYUL	Yuli	1.56 257	eP	Pn	21 00 30.3 +0.1	TPUB	Ta-pu	2.19 260	eP	Sn	21 00 40.8 +1.8
EYUL			eS	Pn	21 00 48.7 -0.9	TPUB	Ta-pu	2.19 260	eP	Sn	21 00 42.2 +2.7
LATG	Datong	1.56 302	flP	Pn	21 00 30.5 +0.2	WCKO	Fanlu	2.19 264	eP	Sn	21 00 41.0 +2.1
LATG			eS	Pn	21 00 49.8 0.0	WCKO			eS	Sn	21 01 06.3 +1.1
TWE	Neicheng	1.56 311	flP	Pn	21 00 30.8 +0.5	WKG	Gukeng	2.21 270	eP	Sn	21 00 41.4 +2.2
TWE			eS	Sn	21 00 49.0 -0.7	WKG			iS	Pn	21 01 07.1 +1.4
YULB	Yu-li	1.56 259	eS	Sn	21 00 30.1 -0.3	WTP	Tai-pu	2.21 259	eP	Sn	21 00 40.9 +1.6
YULB			eS	Sn	21 00 48.8 -0.8	WTP			eS	Sn	21 01 06.4 +0.5
YULB	Yu-li	1.56 259	flP	Pn	21 00 31.0 +0.6	WDJ	Dajia District	2.22 287	eP	Sn	21 00 41.0 +1.5
YULB			eS	Pn	21 00 30.2 -0.3	WDJ			eS	Sn	21 01 07.9 +1.8
YULB			iS	Pn	21 00 49.2 -0.7	WDL	Douliou City	2.23 271	eP	Sn	21 00 41.8 +2.3
TW1	Yuli	1.57 257	flP	Pn	21 00 30.3 -0.2	WDL			eS	Sn	21 01 07.7 +1.5
TW1			eS	Pn	21 00 48.7 -1.4	WDLH	Douliu	2.23 270	eS	Sn	21 00 42.2 +2.7
TW1	Santiao Chiao	1.58 326	flP	Pn	21 00 30.7 +0.2	WCHH	Zhanghua	2.24 280	eP	Sn	21 01 06.1 +1.9
TW1			eS	Pn	21 00 48.5 -1.6	WCHH			iS	Pn	21 00 41.8 +2.2
ENTT	Nioudou	1.58 306	flP	Pn	21 00 31.1 +0.5	WCHH			iS	Pn	21 01 08.1 +1.6
ENTT			eS	Sn	21 00 50.2 -0.1	WCHI	Changhua City	2.25 280	eP	Sn	21 00 42.1 +2.4
CHKT	Chengkung	1.59 248	flP	Pn	21 00 30.1 -0.6	WCHI			eS	Pn	21 01 09.1 +2.5
CHKT			eS	Sn	21 00 47.9 -2.6	CHZT	Minshing	2.29 266	eP	Sn	21 00 42.5 +2.1
FULB	Fuli	1.62 252	eP	Pn	21 00 30.6 -0.5	CHNZ			eS	Sn	21 01 10.9 +3.0
FULB			eS	Pn	21 00 49.7 -1.5	CHN1	Nanshi	2.30 258	eP	Sn	21 00 43.0 +2.5
NNSB	Datong	1.62 297	flP	Pn	21 00 31.4 +0.1	CHN1			S	Sn	21 01 09.9 +1.9
NNSB			iS	Sn	21 00 50.8 -0.6	CHN1	Hsiinying	2.32 260	eP	Sn	21 00 43.4 +2.6
WHF	Hehuan Shan	1.62 286	flP	Pn	21 00 31.1 -0.5	CHN1			eS	Sn	21 01 11.0 +2.4
WHF			eS	Sn	21 00 49.2 -1.6	SNST	Tainan City	2.32 259	eP	Sn	21 00 42.9 +2.1
NNS	Nan Shan	1.63 297	flP	Pn	21 00 31.5 +0.1	SNST			eS	Sn	21 01 10.2 +1.7
NNS			eS	Sn	21 00 51.0 -0.7	TAW	Tawu	2.33 235	eP	Sn	21 00 41.7 +0.8
TIPB	Shuangxi	1.64 321	flP	Pn	21 00 31.6 +0.2	TAW			eS	Sn	21 01 07.2 -1.6
TIPB			eS	Sn	21 00 51.4 -0.3	CHY	Chiayi	2.34 265	eP	Sn	21 00 43.1 +2.0
FUSB	Fushanzhiwuyua	1.64 310	flP	Pn	21 00 31.7 +0.3	CHY			eS	Sn	21 01 07.7 +1.5
FUSB			eS	Sn	21 00 52.4 +0.6	TAHW	Dawu Township	2.35 235	eP	Sn	21 00 41.6 +0.4
OWD	Renai	1.66 279	eP	Pn	21 00 31.6 -0.3	TAHW			eS	Sn	21 01 08.0 -1.2
OWD			iS	Pn	21 00 51.0 -1.4	SSD	Sandimen	2.35 247	eP	Sn	21 00 42.3 +1.1
FUSS	Fushou	1.67 289	flP	Pn	21 00 32.2 +0.2	SSD			eS	Sn	21 01 07.1 -2.1
FUSS			eS	Sn	21 00 52.5 -0.2	EAST	Anshuo	2.35 236	eP	Sn	21 00 41.9 +0.6
FUSS			eS	Sn	21 00 42.0 -0.1	TSMG	Guangshui	2.35 246	eP	Sn	21 00 42.2 +1.0
VWDT	VWDT	1.68 272	flP	Pn	21 00 31.9 -0.2	WTK	Tuku	2.37 270	eP	Sn	21 00 43.6 +2.3
VWDT			eS	Sn	21 00 51.6 -1.0	WTK			eS	Sn	21 00 43.1 +1.1
EDH	Donghe	1.69 245	eP	Pn	21 00 31.9 -0.2	MASBT	Mashibuluo	2.41 244	eP	Pn	21 00 43.1 +1.1
EDH			iS	Pn	21 00 50.6 -2.4	SCST	Cishan	2.42 251	P	Pb	21 00 45.7 -1.3
SKH1	Grass Mountain	1.71 324	flP	Pn	21 00 32.7 +0.3	SCST			eS	Pn	21 01 13.9 +3.1
SKH1			eS	Sn	21 00 53.2 -0.2	WTCT	Ta-cheng	2.47 274	eP	Sn	21 00 45.2 +2.4
EDH	Haiduan	1.71 252	eP	Pn	21 00 32.1 -0.3	WTCT			eS	Sn	21 00 42.9 +2.9
EDH			eS	Sn	21 00 52.1 -1.4	CHN3	Shinhua	2.47 256	eP	Pb	21 00 47.1 -0.9
NWL1	Wulai	1.71 309	eP	Pn	21 00 33.3 +0.8	CHN3			eS	Sb	21 01 16.4 -1.6
NWL1			iS	Sn	21 00 54.1 +0.6	SLIU	Shizi	2.49 234	eP	Pn	21 00 43.7 +0.6
ECS	Chishang	1.72 250	eP	Pn	21 00 32.8 +0.3	ICHU	Yijhu	2.49 263	eP	Sn	21 00 45.6 +2.5
ECS			eS	Sn	21 00 53.1 -0.6	ICHU			eS	Sn	21 00 47.0 +1.6
WUSB	Renai	1.72 280	flP	Pn	21 00 32.7 +0.0	WSF	Shzu	2.52 269	eP	Sn	21 00 45.4 +1.9
WUSB			eS	Sn	21 00 52.5 -1.3	WSF			eS	Sn	21 01 15.6 +2.2
TWT	Tachien	1.73 289	eP	Pn	21 00 33.5 +0.7	WSL	Shuilin Townsh	2.52 266	eP	Sn	21 00 45.4 +1.9
TWT			iS	Sn	21 00 53.7 -0.4	WSL			eS	Sn	21 01 15.7 +2.2
NWF	Wu-fen Shan	1.74 322	flP	Pn	21 00 33.4 +0.4	SSH	Shanhua	2.53 258	eP	Sn	21 00 46.2 +2.6
NWF			eS	Sn	21 00 53.3 -0.8	SSH	Fangliu	2.54 259	eP	Sn	21 00 46.3 +2.3
WFSB	Wu-fen Shan	1.74 322	flP	Pn	21 00 33.3 +0.5	CHN8	Yiju	2.56 263	eP	Sn	21 01 16.7 +2.4
WFSB			eS	Sn	21 00 53.3 -0.8	CHN8			iS	Sn	21 00 46.3 +2.3
TDCE	Techi	1.74 289	flP	Pn	21 00 33.3 +0.4	SMST	Manzhou Townsh	2.58 230	eP	Sn	21 00 45.7 +1.3
TDCE			eS	Sn	21 00 53.4 -1.1	SMST			eS	Sn	21 01 16.2 +1.2
YHNB	Yeheng	1.74 304	eP	Pn	21 00 33.2 +0.0	SNJT	Kaohsiung City	2.60 249	eP	Sn	21 00 49.5 +1.9
YHNB			eS	Sn	21 00 53.3 -0.7	SNJT	Jialhi	2.60 259	eP	Sn	21 00 46.5 +1.9
YHNB	Yeheng	1.74 304	eP	Pn	21 00 33.6 +0.7	SCLT			eS	Sn	21 01 18.7 +3.2
YHNB			iP	Sn	21 00 33.7 +0.8	TSEB	Hengchuen, Pin	2.62 227	eP	Sn	21 00 48.6 +3.7
YHNB			eS	Sn	21 00 53.9 -0.5	TSEB			eS	Sn	21 01 18.4 +2.5
NSK	Sanguang	1.76 304	flP	Pn	21 00 33.6 +0.4	TWKB	Hengchun	2.65 229	eP	Sn	21 00 47.5 +2.1
NSK			eS	Sn	21 00 54.1 -0.7	TWKB			eS	Sn	21 00 47.0 +1.6
TWA	Mucha	1.79 315	flP	Pn	21 00 34.2 +0.7	HEN	Hengchun	2.66 231	eP	Sn	21 00 47.7 +2.2
TWA			eS	Sn	21 00 54.8 -0.7	HEN			eS	Sn	21 01 18.4 +1.5
TNOU	National Taiwa	1.81 323	eP	Pn	21 00 33.8 +0.1	TSCK	Chigu Township	2.71 259	eP	Sn	21 00 48.1 +2.1
TNOU			eS	Sn	21 00 54.9 -0.9	TSCK			eS	Sn	21 01 20.2 +2.3
XNDH	Xindian Distri	1.82 314	eP	Pn	21 00 34.9 +1.1	WSSB	Gushan	2.71 248	eP	Pb	21 00 50.0 -1.9
XNDH			eS	Sn	21 00 55.3 -0.9	WSSB			eS	Sn	21 01 23.4 -1.4
JTJ	Tarama	1.84 59	eP	Pn	21 00 35.0 +0.9	WLCH	Liuqiu	2.74 241	eP	Pb	21 00 51.5 -1.1
SSLB	Suangleung	1.85 273	eP	Pn	21 00 34.1 -0.2	TWP	Hsiailiuchiu	2.76 241	eP	Pn	21 00 50.2 +3.4
SSLB			eS	Sn	21 00 56.7 -0.2	WDGT	Dungji	3.07 262	eP	Sn	21 00 52.6 +1.5
SSLB	Suangleung	1.85 273	eP	Pn	21 00 34.9 +0.6	WDGT			iS	Sn	21 01 26.9 -0.1
SSLB			eS	Sn	21 00 56.7 -0.2	PHUB	P'eng-hu	3.12 267	eP	Sn	21 00 52.3 +0.9
TATO	Taipei	1.85 313	eP	Pn	21 00 34.4 -0.2	PHUB			eS	Sn	21 00 52.3 +0.9
TATO			eS	Sn	21 00 56.7 -0.2	VCHM	Oimei	3.23 262	eP	Sn	21 00 54.9 +0.8
ELDT	Lidau	1.86 254	eP	Pn	21 00 35.2 +0.9	VCHM			eP	Sn	21 00 56.4 +0.0
ELDT			eS	Sn	21 00 57.8 +0.9	VWUC	VWUC	3.46 292	eP	Sn	21 00 56.4 +0.0
LONT	Longtian	1.87 245	eP	Pn	21 00 34.4 -0.2	MATB	Ma-tsu	3.67 312	eP	Sn	21 00 59.3 -0.1
LONT			eS	Sn	21 00 56.6 -0.7	PTMZ	Houxiangcun	3.75 292	eP	Sn	21 01 00.5 0.0
TAP	Sun Moon Lake	1.90 276	eP	Pn	21 00 35.2 +0.9	PTMZ			eP	Sn	21 01 00.5 0.0
TAP			eS	Sn	21 00 56.9 -0.8	XPSS	Xingshan	4.08 323	eP	Sn	21 01 08.7 +2.0
SMLT	Sun Moon Lake	1.90 276	eP	Pn	21 00 35.4 +1.0	KNM	Kimmen	4.21 281	eP	Sn	21 01 07.5 +0.1
SMLT			eS	Sn	21 00 56.6 -0.7	KNMB	Chin-men Tao	4.25 281	Pn	Pn	21 01 07.2 -0.1
WCS	Beigang Elemen	1.92 281	eP	Pn	21 00 35.5 +1.0	MHZO	Yeshan	4.30 305	eP	Sn	21 01 07.6 -0.3
WCS			eS	Sn	21 00 56.6 -0.7	AXPD	Jialing	4.71 296	eP	Sn	21 01 14.0 +0.3
YMO1	YMO1	1.92 319	eP	Pn	21 00 35.6 +0.3	AXPD			eS	Sn	21 01 15.7 +0.6
YMO1			eS	Sn	21 00 58.4 -0.1	DXSP	Dongshan	5.08 271	eP	Sn	21 01 19.3 +0.6
TTN	Taitung	1.93 241	eP	Pn	21 00 35.7 +0.5	SXFK	Yanhouchang	5.52 300	Pn	Pn	21 01 24.2 -0.7
TTN			eS	Sn	21 00 58.4 -0.1	JOW	Kunigami	5.72 56	Pn	Sn	21 01 26.2 -1.4
NFF	Wufeng Townshi	1.93 299	eP	Pn	21 00 35.8 +0.3	JOW			eS	Sn	21 02 31.1 -1.3
NFF			eS	Sn	21 00 57.8 -0.9	SSE	Sheshan	7.53 348	Pn	Pn	21 01 52.8 +0.4
WHP	Taichung City	1.94 288	eP	Pn	21 00 36.0 +0.8	SSE			eS	Sn	21 03 17.8 +0.9
WHP			eS	Sn	21 00 58.4 -0.1	SSE			LR	LR	
WHYT	Xinyi Township	1.94 270	eP	Pn	21 00 36.7 +1.2	SSE			LR	LR	
WHYT			eS	Sn	21 00 59.3 +0.2	SSE			LR	LR	
YMO8	YMO8	1.94 320	eP	Pn	21 00 36.5 +0.8	SSE			LR	LR	
YMO8			eS	Sn	21 00 58.5 -0.7	SSE			LR	LR	
TYC	Yuchr	1.94 276	eP	Pn	21 00 35.5 0.0	SSE			LR	LR	
TYC			eS	Sn	21 00 57.8 -1.3	HKPS	Hong Kong Po S	8.26 262	Pn	Pn	21 02 03.2 +0.8
ZUZH	Zhuzhuh	1.95 318	eP	Pn	21 00 36.4 +0.8	TGY	Tagaytay City	9.74 192	LR	LR	21 06 36.3
ZUZH			eS	Sn	21 00 59.1 -0.1	QIZ	Qiongzong	13.08 252	S	Sn	21 03 07.8 -1.7
TWGBT	Beinan	1.95 243	eP	Pn	21 00 36.6 +0.9	QIZ			S	Sn	21 05 34.8 +1.6
TWGBT			eS	Sn	21 00 57.7 -1.7	QIZ			pmax	pmax	
TWGBT			eS	Sn	21 00 36.2 +0.5	QIZ			LR	LR	
KSHI	Guaxi Townshi	1.95 303	eP	Pn	21 00 36.8 +1.3	QIZ			LR		











Table with columns: SELS, Selova, 2.75, 5, ePn, Pn, 22 23 15.7 +2.0, etc.

IDC 22 22:22:36.4, 0.2, 23.85N, 122.91E, h0km, mb3.9/21, mbtmp3.9/24, ML3.3/3, MS3.5/8, Error ellipse: s-maj=17.1km s-min=15.6km az=82.0

BUJ 22 22:22:38.0, 23.72N, 122.84E, h11km, mb4.4/8, mb4.1/19, Ms4.0/14, Ms7.3/8/15

NEIC 22 22:22:39.0, 2.1, 23.71N, 0.0, 122.80E, 0.03, h10km, 1km, mb4.4/24, Error ellipse: s-maj=5.1km s-min=3.0km

TAP 22 22:22:40.8, 23.75N, 122.96E, h36km, ML4.9, D Moment Tensor Solution, s2 Moment tensor: Scale 10^15Nm; Mm-1.46; Mw0.21; Mw0.85; Mw0.52; Mw0.10; Mw0.50;

ASIES 22 22:22:40.8, 23.75N, 122.96E, h36km, ML4.9, Mw4.3, Moment Tensor Solution, Moment tensor: Scale 10^22Nm; Mm-3.46; Mw0.39; Mw0.45; Mw0.04; Mw0.14; Mw0.20;

JMA 22 22:22:40.5, 23.71N, 122.92E, h41km, MW4.2, Moment Tensor Solution, s2 Moment tensor: Scale 10^15Nm; Mm-1.46; Mw0.21; Mw0.85; Mw0.52; Mw0.10; Mw0.50;

JMA 22 22:22:40.5, 23.71N, 122.92E, h41km, MD4.4/16, MW4.2/16, NEAR ISHIGAKIJIMA ISLAND

ISC 22 22:22:40.4, 0.4, 23.69N, 0.02, 122.94E, 0.2, h29km, n269, a1935/392, mb4.1/36, MS3.8/6, 13C-31D, Taiwan region

Main table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, etc.

Main table with columns: NNSB, Nan Shan, 1.61, 298, i, S, Pn, 22 23 25.9 -0.7, etc.

Main table with columns: MASBT, Mashibuluo, 2.38, 244, eP, Pn, 22 23 18.7 +1.3, etc.



ZUVM		eS	Sn	22 35 04.2 +3.0	MIAR	Mount Ida	20.12 359	P	Iamb	P	22 36 08.2 -0.2	CBN		Iamb	Iamb	22 27 23.0	
ARIG	Puente Sto Nin	8.10 300	Pn	22 33 35.0 +2.0	MIAR	Mount Ida	20.12 359	P	Iamb	P	22 36 15.8	OGNE	Ogallala	27.66 345	P	Iamb	22 27 21.6 -0.4
ARIG	Puente Sto Nin	8.10 300	eP	22 33 35.0 +2.0	MIAR	Mount Ida	20.12 359	P	prmax	P	22 36 08.2 -0.2	OGNE	Ogallala	27.66 345	P	Iamb	22 27 21.6 -0.4
ARIG			eS	22 35 06.1 +2.8	MIAR	Mount Ida	20.12 359	P	prmax	P	22 36 08.2 -0.2	OGNE	Ogallala	27.66 345	P	Iamb	22 27 21.6 -0.4
DHIG	Demacu	8.29 316	Pn	22 33 37.3 +1.4	MIAR	Mount Ida	20.12 359	P	prmax	P	22 36 08.2 -0.2	ISCO	Idaho Springs	27.68 339	P	prmax	22 27 22.9 +0.4
DEIG	Demacu	8.29 316	eS	22 33 37.3 +1.4	OXF	Oxford	20.34 8	P	Iamb	P	22 36 10.2 -0.5	ISCO	Idaho Springs	27.68 339	P	prmax	22 27 22.9 +0.4
ACIG	Acambay	8.66 311	Pn	22 33 40.5 -0.6	OXF	Oxford	20.34 8	P	Iamb	P	22 36 23.8	PCRV	Jewell Farm	27.98 95	LR	LR	22 49 29.3
ACIG	Acambay	8.66 311	eS	22 33 40.5 -0.6	OXF	Oxford	20.34 8	P	prmax	P	22 36 10.2 -0.5	JFWS	Jewell Farm	28.57 4	P	Iamb	22 27 30.5 +0.5
ACIG	Las Esperanzas	8.70 103	Pn	22 35 07.9 -1.0	OXF	Oxford	20.34 8	P	prmax	P	22 36 10.2 -0.5	JFWS	Jewell Farm	28.57 4	P	Iamb	22 27 30.5 +0.5
ESPN	Las Esperanzas	8.70 103	eS	22 35 07.9 -1.0	UALR	University of	20.35 1	P	P	P	22 36 10.7 -0.2	JFWS	Jewell Farm	28.57 4	P	Iamb	22 27 30.5 +0.5
CTUV	Llano Grande	8.75 325	eS	22 35 19.4 0.0	HTMS	Hat Mesa	20.50 333	P	P	P	22 36 13.3 +0.5	JFWS	Jewell Farm	28.57 4	P	prmax	22 27 30.5 +0.5
CTUV	Llano Grande	8.75 325	eS	22 35 19.4 0.0	X34A	Smith Ranch, M	20.64 349	Iamb	Iamb	P	22 36 14.2 +0.1	JFWS	Jewell Farm	28.57 4	P	prmax	22 27 30.5 +0.5
ZIIG	Zihuatanejo	8.79 293	Pn	22 33 43.9 +1.2	X34A	Smith Ranch, M	20.64 349	Iamb	Iamb	P	22 36 24.3	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
ZIIG	Zihuatanejo	8.79 293	eP	22 33 43.9 +1.2	ROSC	El Rosal	20.65 115	P	P	P	22 36 11.3 -3.4	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
ZIIG	Zihuatanejo	8.79 293	eS	22 35 21.4 +1.0	ROSC	El Rosal	20.65 115	P	P	P	22 36 11.3 -3.4	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
JTS	Las Juntas de	8.80 116	Pn	22 33 38.7 -4.1	257A	Skidaway Island	20.67 30	IAMS_20	IAMS_20	P	22 45 01.9	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
JTS	Las Juntas de	8.80 116	P	22 33 38.7 -4.1	257A	Skidaway Island	20.67 30	IAMS_20	IAMS_20	P	22 45 01.9	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
JTS	Las Juntas de	8.80 116	P	22 33 38.7 -4.1	257A	Skidaway Island	20.67 30	IAMS_20	IAMS_20	P	22 45 01.9	PFO	Pinyon Flats O	28.67 316	LR	LR	22 27 31.6 +0.4
MOIG	Morelia	9.49 305	eP	22 35 54.4 +1.7	MNTX	Cornudas Mount	20.68 329	P	P	P	22 36 13.8 -0.7	SABA	Saba	28.74 79	IAMS_20	IAMS_20	22 48 42.5
MOIG	Morelia	9.49 305	eS	22 35 54.4 +1.7	MNTX	Cornudas Mount	20.68 329	eP	P	P	22 36 14.1 -0.4	SABA	Saba	28.74 79	IAMS_20	IAMS_20	22 48 42.5
MOIG	Morelia	9.49 305	Pn	22 35 54.4 +1.7	MNTX	Cornudas Mount	20.68 329	eP	P	P	22 36 14.8 -1.5	V12A	Nelson	28.97 321	Iamb	Iamb	22 27 35.0 +1.2
MOIG	Morelia	9.49 305	S	22 35 54.4 +1.7	GOGA	Godfrey	20.85 23	P	prmax	P	22 36 26.8	V12A	Nelson	28.97 321	Iamb	Iamb	22 27 35.0 +1.2
JRQG	Juriquilla Cam	9.53 313	Pn	22 34 08.7 -0.2	GOGA	Godfrey	20.85 23	P	prmax	P	22 36 14.8 -1.5	SEUS	San Rafael Swe	29.12 331	P	Iamb	22 48 20.0
JRQG	Juriquilla Cam	9.53 313	eS	22 34 08.7 -0.2	GOGA	Godfrey	20.85 23	P	prmax	P	22 36 14.8 -1.5	SEUS	San Rafael Swe	29.12 331	P	Iamb	22 48 20.0
JRQG	Juriquilla Cam	9.53 313	eS	22 34 08.7 -0.2	GOGA	Godfrey	20.85 23	P	prmax	P	22 36 14.8 -1.5	SEUS	San Rafael Swe	29.12 331	P	Iamb	22 48 20.0
HDC	Heredia	9.67 116	Pn	22 33 56.8 +0.0	WMOK	Wichita Mount	20.97 347	P	P	P	22 36 17.1 -0.6	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
HDC	Heredia	9.67 116	eP	22 33 56.8 +0.0	WMOK	Wichita Mount	20.97 347	P	prmax	P	22 36 17.1 -0.6	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
LCHR	La Lucha 2	9.88 117	Pn	22 33 59.5 +1.7	WMOK	Wichita Mount	20.97 347	P	prmax	P	22 36 17.1 -0.6	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
PHG	Rio Verde	10.04 319	Pn	22 34 00.4 +0.7	SDDR	Pres de Saban	21.27 75	P	P	P	22 36 20.2 -0.8	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
PHG	Rio Verde	10.04 319	eP	22 34 00.4 +0.7	SDDR	Pres de Saban	21.27 75	eP	P	P	22 36 21.7 +0.7	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
PHG	Rio Verde	10.04 319	eS	22 34 00.4 +0.7	SDDR	Pres de Saban	21.27 75	eP	P	P	22 36 21.7 +0.7	SRU	San Rafael Swe	29.12 331	P	Iamb	22 27 36.0 +0.8
GTIG	Gomez Farias	10.48 327	Pn	22 34 04.9 -0.8	RUSC	La Rusia	21.28 111	P	P	P	22 36 21.6 -0.1	ECSD	EROS Data Cent	29.46 355	Iamb	Iamb	22 27 37.1 -0.7
GTIG	Gomez Farias	10.48 327	eP	22 34 04.9 -0.8	RUSC	La Rusia	21.28 111	P	P	P	22 36 21.6 -0.1	ECSD	EROS Data Cent	29.46 355	Iamb	Iamb	22 27 37.1 -0.7
GTIG	Gomez Farias	10.48 327	eS	22 34 04.9 -0.8	FLOCC	Flores	21.30 125	P	Iamb	Iamb	22 36 21.7 +0.4	ECSD	EROS Data Cent	29.46 355	Iamb	Iamb	22 27 37.1 -0.7
MMIG	Aquila	10.71 293	Pn	22 35 58.0 -3.8	FLOCC	Flores	21.30 125	P	Iamb	Iamb	22 36 38.1	WUPA	West Chester U	29.69 28	IAMS_20	IAMS_20	22 50 47.6
MMIG	Aquila	10.71 293	eS	22 35 58.0 -3.8	FLOCC	Flores	21.30 125	P	Iamb	Iamb	22 36 38.1	WUPA	West Chester U	29.69 28	IAMS_20	IAMS_20	22 50 47.6
MMIG	Aquila	10.71 293	eS	22 35 58.0 -3.8	FLOCC	Flores	21.30 125	P	Iamb	Iamb	22 36 38.1	WUPA	West Chester U	29.69 28	IAMS_20	IAMS_20	22 50 47.6
PRVC	Isla de Provid	11.31 93	Pn	22 34 18.1 +1.1	GUYB	Guaymas	21.43 312	eP	P	P	22 36 23.6 +1.0	CZSB	Cruzeiro do Su	29.75 136	P	Iamb	22 27 41.9 +1.1
MNGA	Volcan de Coli	11.40 298	eS	22 34 18.1 +1.1	SWET	Cochancay	21.53 140	P	Iamb	Iamb	22 36 25.5 +1.8	CZSB	Cruzeiro do Su	29.75 136	P	Iamb	22 27 41.9 +1.1
MNGA	Volcan de Coli	11.40 298	eS	22 34 18.1 +1.1	SWET	Cochancay	21.53 140	P	Iamb	Iamb	22 36 25.5 +1.8	CZSB	Cruzeiro do Su	29.75 136	P	Iamb	22 27 41.9 +1.1
MNGA	Volcan de Coli	11.40 298	eS	22 34 18.1 +1.1	SWET	Cochancay	21.53 140	P	Iamb	Iamb	22 36 25.5 +1.8	CZSB	Cruzeiro do Su	29.75 136	P	Iamb	22 27 41.9 +1.1
INCO	Volcano de Col	11.41 298	eS	22 36 24.2 +0.2	SC01	Santiago de Co	21.86 74	P	P	P	22 36 35.8	CZSB	Cruzeiro do Su	29.75 136	eP	P	22 27 42.9 +2.2
INCO	Volcano de Col	11.41 298	eS	22 36 24.2 +0.2	SC01	Santiago de Co	21.86 74	P	P	P	22 36 26.4 -0.9	CZSB	Cruzeiro do Su	29.75 136	eP	P	22 27 42.9 +2.2
SOMAC	Volcano de Col	11.41 298	eS	22 36 25.6 +0.4	AMTX	Amarillo	21.91 340	P	P	P	22 36 27.4 -0.4	N58A	Sunbury	29.96 25	IAMS_20	IAMS_20	22 50 49.8
SOMAC	Volcano de Col	11.41 298	eS	22 36 25.6 +0.4	AMTX	Amarillo	21.91 340	P	P	P	22 36 27.4 -0.4	N58A	Sunbury	29.96 25	IAMS_20	IAMS_20	22 50 49.8
SOMAC	Volcano de Col	11.41 298	eS	22 36 25.6 +0.4	AMTX	Amarillo	21.91 340	P	P	P	22 36 27.4 -0.4	N58A	Sunbury	29.96 25	IAMS_20	IAMS_20	22 50 49.8
BRU2	Volcan	11.48 118	Pn	22 36 21.6 +2.6	GRTK	Grand Turk	21.95 68	eP	Iamb	Iamb	22 36 45.9	M57A	Lehigh Univer	30.24 27	P	Iamb	22 27 45.1 -0.6
CDAR	Ciudad de Arme	11.53 295	eS	22 36 21.6 +2.6	GRTK	Grand Turk	21.95 68	eP	Iamb	Iamb	22 36 45.9	M57A	Lehigh Univer	30.24 27	P	Iamb	22 27 45.1 -0.6
CDAR	Ciudad de Arme	11.53 295	eS	22 36 21.6 +2.6	GRTK	Grand Turk	21.95 68	eP	Iamb	Iamb	22 36 45.9	M57A	Lehigh Univer	30.24 27	P	Iamb	22 27 45.1 -0.6
CEGR	Campo Tres	11.57 297	eS	22 34 22.7 +1.8	CSU	Charleston Sou	21.96 30	IAMS_20	IAMS_20	P	22 46 00.1	LUPA	Lupa	30.34 27	P	Iamb	22 27 45.9
CEGR	Campo Tres	11.57 297	eS	22 34 22.7 +1.8	CSU	Charleston Sou	21.96 30	IAMS_20	IAMS_20	P	22 46 00.1	LUPA	Lupa	30.34 27	P	Iamb	22 27 45.9
CEGR	Campo Tres	11.57 297	eS	22 34 22.7 +1.8	CSU	Charleston Sou	21.96 30	IAMS_20	IAMS_20	P	22 46 00.1	LUPA	Lupa	30.34 27	P	Iamb	22 27 45.9
AAIG	Aguscalientes	11.72 312	eP	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
AAIG	Aguscalientes	11.72 312	eP	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
AAIG	Aguscalientes	11.72 312	eP	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
CHU	Emiliano Zapat	12.28 295	eS	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
CHU	Emiliano Zapat	12.28 295	eS	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
CHU	Emiliano Zapat	12.28 295	eS	22 34 22.8 -0.2	NHSC	New Hope	22.00 30	IAMS_20	IAMS_20	P	22 36 28.1 -0.6	MPU	Maple Canyon	30.36 331	P	Iamb	22 27 46.5 +0.3
ZAIG	Zacatecas	12.37 314	eP	22 34 42.2 +3.6	NZIG	Nacozari, Sono	22.09 319	eP	P	P	22 36 32.0 +2.2	WVNY	Wrest Valley, N	30.59 21	IAMS_20	IAMS_20	22 51 19.6
SOR	Soroa	12.63 47	Pn	22 34 34.4 -0.8	NZIG	Nacozari, Sono	22.09 319	eP	P	P	22 36 32.0 +2.2	WVNY	Wrest Valley, N	30.59 21	IAMS_20	IAMS_20	22 51 19.6
SOR	Soroa	12.63 47	eP	22 34 34.4 -0.8	NZIG	Nacozari, Sono	22.09 319	eP	P	P	22 36 32.0 +2.2	WVNY	Wrest Valley, N	30.59 21	IAMS_20	IAMS_20	22 51 1

22d 22h

Table with columns for station name, frequency, power, and other technical details. Includes stations like HLID Hailey, VT1 Waterbury, I62A Tamworth, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like TOAD Toad River Com, SMTB Santa Maria do, V35K Ketchikan, etc.

1368

Table with columns for station name, frequency, power, and other technical details. Includes stations like O28M Mount Upton, MAYO Mayo, Yukon, YUKB Steele Glacier, etc.

Table with columns: Station ID, Name, Frequency, Class, Mode, Power, and other technical details. Includes stations like HIN Hinchinbrook I, DIV Divide, RCBR Riachuelo, etc.

Table with columns: Station ID, Name, Frequency, Class, Mode, Power, and other technical details. Includes stations like ILAR comp=Z,2j,m,19.2s, M22K Willow, CAPN Captain Cook N, etc.

Table with columns: Station ID, Name, Frequency, Class, Mode, Power, and other technical details. Includes stations like PPT2 comp=Z,700nm,25.5s, PPT2 comp=Z,473nm,25.5s, PPT2 comp=Z,1j,m,29.2s, etc.







22d 23h

Table with columns: Code, Station Name, Az, AzZ, Phase, ID, Time, Res, ISC. Includes stations like TSZ Takapari Road, VRZ Vera Road, etc.

IDC 22 22:35:04.0, 4.0, 5.0, 301.87S, 177.31W, h0km, mb4.5/15, mbmp4.5/16, ML3.6/1, MS4.2/5, Error ellipse: s-maj=19.4km s-min=14.8km az=79.0

NEIC 22 22:35:06.2, 1.5, 3.0, 93S, 0.06, 177.3W, 0.1, h10km, 1km, mb4.9/39, Error ellipse: s-maj=17.2km s-min=9.8km az=82.0

ISC 22 22:35:09.0, 0.3, 30.97S, 0.04, 177.32W, 0.06, h35km, n145, 1972/157, mb4.9/42, MS4.5/7, 6C-2D, Kermadec Islands

Main table for station 22d 23h, listing codes, station names, and seismic data.

2019 JUN

Main table for station 2019 JUN, listing codes, station names, and seismic data.

1372

Table for station 1372, listing codes, station names, and seismic data.

MEX 22 22:42:25.8, 0.6, 14.30N, 93.00W, h6km, 31km, MD3.6 GCG 22 22:42:27.9, 0.4, 14.36N, 92.75W, h54km, 999km, MD3.7

ISC 22 22:42:20.5, 2.6, 14.3N, 0.1, 93.08W, 0.09, h18km, 6km, n8, 10673/14, Near coast of Chiapas

Table for station 1372 (continued), listing codes, station names, and seismic data.

IDC 22 23:00:14.0, 0.6, 28.21S, 178.56W, h268km, 6km, mb3.4/7, mbmp4.0/8, Error ellipse: s-maj=19.7km s-min=15.9km az=122.0

ISC 22 23:00:12.0, 0.6, 28.44S, 0.07, 179.4W, 0.1, h250km, n35, 1960/42, mb3.7/7, Kermadec Islands region

Main table for station 1372 (continued), listing codes, station names, and seismic data.



23d Oh

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like RAO Raoul Island, URZ Urewera, STKA Stephens Creek, etc.

ISC 23 00:02:50.7, 1.1, 30.80S, 0.077:177.4W, 0.2, h27km, n11, s=197/14, mb4.0/4, Kermadec Islands

Main table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like YKLR Yuktali, CLNS Chul'man, KHN Khani, etc.

CATAC 23 00:10:06.6, 0.4, 13.13°N, 8°8'W, h38km, 5km, M3.5/17, ML3.5/17, Error ellipse: s-maj=7.4km s-min=2.9km

2019 JUN

Table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like POTN Potosi Cosigui, CTAO Charters Tower, etc.

NEIC 23 00:21:06.8, 20.81'S, 173.83'W, h20km, Moment Tensor Solution. Duration: 188 Moment tensor: Scale 1016Nm

Table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SWI Sorong, SBA Saba Base, VDA Vanda, etc.

NOU 23 00:21:11.9, 20.98'S, 173.41'W, h92km, mb4.9/11, Tonga Islands

Main table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like NIUE Niue, RAR Rarotonga, etc.

1374

Main table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like COEN Coen, JAY Jayapura, etc.

1375 **2019 JUN** **23d 0h**

O15K	Ungalikthiuk R baz=193	80.92	7	P	P	00 33 16.5	-4.2
P16K	Nushagak River baz=195	81.01	8	P	P	00 33 18.7	-2.5
Q18K	Katmak Hardscr baz=198	81.08	10	P	P	00 33 19.1	-2.6
WVOR	Wild Horse Val	81.27	38	P	P	00 33 23.0	-0.2
LCMT	Little Creek M	81.35	45	P	P	00 33 23.6	-0.2
P17K	Kvichak River baz=196	81.39	9	P	P	00 33 20.8	-2.3
USAH	Ushuaia comp=Z,169nm,18.1s,baz=154,slow=33	81.42	146	LR	LR	01 06 31.7	
N14K	Kuskokwak Cree baz=191	81.45	6	P	P	00 33 21.3	-2.1
Q20K	Shuyak Island baz=200	81.49	11	P	P	00 33 21.1	-2.6
M11K	Mekoryuk baz=187	81.53	4	P	P	00 33 21.8	-2.1
O16K	Kokwok River B baz=195	81.54	8	P	P	00 33 21.8	-2.2
Q19K	Cape Douglas, baz=199	81.57	10	P	P	00 33 21.6	-2.6
USA0B	Ussuriysk Arra	81.73	324	P	IAMB	00 33 25.4	+0.1
USA0B	Ussuriysk Arr	81.73	324	P	IAMB	00 33 25.4	+0.1
USRK	Ussuriysk Ar.	81.73	324	P	LR	00 33 25.5	+0.1
USRK	Ussuriysk Ar.	81.73	324	P	LR	01 05 38.3	
P18K	Big Mountain, comp=Z,336nm,20.5s,baz=139,slow=33	81.75	10	P	IAMB	00 33 25.4	+0.1
P18K	Big Mountain, comp=Z,24nm,1.1s	81.75	10	P	IAMB	00 33 31.7	
M13K	Dall Lake baz=197	81.78	5	P	P	00 33 22.0	-2.9
O17K	Koliganek Bris baz=196	81.85	9	P	P	00 33 22.8	-2.8
N15K	Kwethluk River baz=193	81.86	7	P	P	00 33 22.4	-3.3
O18K	Koktuh Hills	82.20	9	P	P	00 33 27.8	+0.3
O18K	Koktuh Hills	82.20	9	P	P	00 33 24.4	-3.1
M14K	Bethel baz=191,SNR=5.4	82.23	6	P	P	00 33 24.7	-2.9
ELK	Elko comp=Z,300nm,18.7s,baz=248,slow=32	82.25	4	LR	LR	01 05 35.3	
M15K	Kasigluk River baz=192,SNR=11	82.31	7	P	P	00 33 25.0	-3.0
N16K	Nishlik Lake	82.31	8	P	P	00 33 24.9	-3.2
P19K	Oil Pt baz=194	82.33	10	P	P	00 33 24.7	-3.5
H03S2	Juan Fernandez baz=247	82.43	123	T	T	02 05 49.3	
H03S1	Juan Fernandez baz=247	82.44	123	T	T	02 05 58.2	
H03S3	Juan Fernandez baz=247	82.45	123	T	T	02 05 53.7	
ESPZ	Base Esperanza	82.48	156	P	IAMB	00 33 29.6	+0.5
ESPZ	Base Esperanza	82.48	156	P	IAMB	00 33 32.3	
N17K	Nushagak Hills baz=196	82.56	8	P	P	00 33 26.0	-3.4
HOM	Homer baz=201	82.61	11	P	P	00 33 26.8	-2.8
KSI	Kapahiang	82.63	269	P	P	00 33 33.1	+2.2
O19K	Port Alsworth	82.66	10	P	P	00 33 29.5	-0.4
O19K	Port Alsworth	82.66	10	P	P	00 33 27.3	-2.6
L14K	Kuka Creek baz=190,SNR=10	82.75	5	P	P	00 33 27.8	-2.4
M16K	Timber Creek	82.82	7	P	P	00 33 31.1	+0.4
M16K	Timber Creek	82.82	7	P	P	00 33 28.8	-1.9
O20K	Slope Mountain baz=200	82.83	11	P	P	00 33 28.6	-2.3
BRSE	Bradley Lake S baz=202	82.85	12	P	P	00 33 28.0	-2.9
N18K	Kilae Creek baz=197	82.89	9	P	P	00 33 27.9	-3.2
K13K	Kusilvak Mount	83.18	4	P	IAMB	00 33 32.4	-0.1
K13K	Kusilvak Mount	83.18	4	P	IAMB	00 33 40.6	
K13K	Kusilvak Mount comp=Z,14nm,1.1s	83.18	4	P	IAMB	00 33 30.1	-2.3
L15K	Ungalak Mounta baz=191,SNR=16	83.19	6	P	P	00 33 30.8	-1.8
N19K	Bonanza Creek baz=198,SNR=6.3	83.23	9	P	P	00 33 30.6	-2.3
E07A	Sunnyside	83.24	34	P	IAMB	00 33 32.8	-0.4
E07A	Sunnyside	83.24	34	P	IAMB	00 33 38.8	
BBB	Bella Be comp=Z,25nm,0.9s	83.27	26	LR	LR	01 05 31.2	
NJ2	Nanjing comp=Z,91nm,18.5s,baz=212,slow=32	83.29	308	eP	eP	00 33 34.3	+0.5
NJ2	Nanjing	83.29	308	eP	eP	00 33 34.3	+0.5
HAWA	Hanford comp=Z,13nm,0.6s	83.30	35	P	IAMB	00 33 32.9	-0.6
HAWA	Hanford	83.30	35	P	IAMB	00 33 38.5	
M17K	Hollita River baz=195	83.38	8	P	P	00 33 32.7	-0.9
L16K	Ohwat River baz=193,SNR=10.0	83.43	7	P	P	00 33 32.6	-1.2
SEW	Seward baz=203	83.44	12	P	P	00 33 32.8	-1.1
SLKM	Skilak Lake	83.66	12	P	P	00 33 35.0	-0.1
M18K	Stony River	83.68	9	P	P	00 33 34.0	-1.1
P23K	Montague Islan baz=204	83.75	13	P	P	00 33 33.9	-1.6
K15K	Wolf Creek Mou baz=191,SNR=40	83.79	6	P	P	00 33 34.8	-0.8
CRAG	Craig baz=218	83.87	22	P	P	00 33 34.5	-1.7
N20K	Mount Spurr baz=200	83.96	10	P	P	00 33 35.6	-1.1
SPCR	Spurr Chakacha baz=200	83.96	10	P	P	00 33 35.3	-1.4
SPU	Mount Spurr	83.97	10	P	IAMB	00 33 36.5	-0.1
SPU	Mount Spurr	83.97	10	P	IAMB	00 33 40.2	
L17K	Donlin baz=194,SNR=11	83.98	7	P	P	00 33 35.8	-0.9
J14K	Nanvaranak Lak baz=190	84.07	5	P	P	00 33 36.5	-0.5
TXAR	Lajitas Array	84.25	56	P	P	00 33 38.4	-0.6
TXAR	Lajitas Array	84.25	56	P	P	00 33 41.7	+2.7
TXAR	Lajitas Array comp=Z,2.5nm,0.9s,baz=244,slow=4.6,SNR=15	84.25	56	P	LR	01 04 49.3	
L18K	Granite Mounta baz=196,SNR=11	84.26	8	P	P	00 33 36.6	-1.5
M19K	Big River Lodg baz=198,SNR=5.8	84.28	9	P	P	00 33 36.3	-1.9
RC01	Rabbit Creek A baz=202	84.29	12	P	P	00 33 37.0	-1.3
V35K	Ketchikan baz=219	84.30	23	P	P	00 33 36.5	-1.9
KAIM	Kayak Island baz=207	84.35	14	P	P	00 33 36.4	-2.1
PWL	Port Wells baz=204	84.35	12	P	P	00 33 36.5	-2.1
U33K	Whale Pass baz=218	84.39	22	P	P	00 33 36.2	-2.6
SIT	Sitka baz=216	84.41	20	P	P	00 33 36.8	-2.1
HLID	Hailey baz=199	84.41	39	P	P	00 33 39.1	-0.4
M20K	Styx River	84.45	10	P	P	00 33 37.5	-1.7
SUA	Susitna One	84.46	11	P	IAMB	00 33 39.5	+0.2
SUA	Susitna One	84.46	11	P	IAMB	00 33 43.7	
SUA	Susitna One comp=Z,14nm,0.8s	84.46	11	P	IAMB	00 33 37.2	-2.1
L19K	White Mountain baz=198	84.48	9	P	P	00 33 38.5	-1.0
K17K	Iditarod baz=194	84.55	7	P	P	00 33 37.9	-1.3
EYAK	Cordova Ski Ar baz=206	84.61	14	P	P	00 33 38.3	-1.5
GLI	Glacier Island baz=205	84.62	13	P	P	00 33 38.2	-1.8
GAMB	Gambell baz=182	84.71	1	P	P	00 33 38.4	-1.8
L16K	Skwentna	84.81	10	P	P	00 33 40.8	-0.1

SKT	comp=Z,9.8nm,0.9s	84.81	10	P	P	00 33 44.7	
SKT	Skwentna baz=201,SNR=6.8	84.81	10	P	P	00 33 39.8	-1.0
KNK	Knik Glacier baz=204	84.84	12	P	P	00 33 39.6	-1.4
J16K	Anvik River	84.85	6	P	P	00 33 39.9	-1.1
S31K	Pelican baz=215	84.87	19	P	P	00 33 39.4	-1.8
PMR	Palmer baz=203	84.87	12	P	P	00 33 39.7	-1.4
WRAK	Wrangell Islan baz=216	84.89	22	P	P	00 33 39.1	-2.2
ANMO	Albuquerque comp=Z,344nm,19.2s,baz=9.0,slow=31	84.90	50	LR	LR	01 05 31.9	
L20K	Farewell, AK baz=198,SNR=5.2	84.90	9	P	P	00 33 39.4	-1.9
LLLL	Lillooet	84.91	30	P	IAMB	00 33 42.3	+0.6
LLLL	Lillooet	84.91	30	P	IAMB	00 33 46.3	
S32K	Killsnoo comp=Z,15nm,1.1s	84.98	20	P	P	00 33 40.0	-1.8
GHO	Gilley Hole Cre	85.08	12	P	P	00 33 42.6	+0.3
KLR	Kul'dur comp=Z,252nm,20.6s,baz=149,slow=33	85.11	328	LR	LR	01 07 23.2	
J17K	VABM Dome baz=194,SNR=7.3	85.12	7	P	P	00 33 41.0	-1.3
MESA	MESA baz=210	85.17	15	P	P	00 33 40.8	-2.1
WAX	Waxell Ridge	85.18	15	P	P	00 33 44.0	+1.1
SML	Sawmill	85.22	12	P	IAMB	00 33 43.3	+0.3
SML	Sawmill	85.22	12	P	IAMB	00 33 49.9	
SML	Sawmill comp=Z,15nm,1.3s	85.22	12	P	P	00 33 41.5	-1.5
BRMR	Bremner River baz=204	85.24	14	P	P	00 33 41.9	-1.2
PNL	Peninsula baz=212	85.39	17	P	P	00 33 42.0	-1.9
CRQE	Cirque baz=209	85.39	15	P	P	00 33 42.8	-1.2
KLU	Klutina baz=206	85.42	13	P	P	00 33 42.9	-1.1
I17K	Unalakleet baz=211	85.44	6	P	P	00 33 42.6	-1.3
SCM	Shapp Creek Mo baz=204,SNR=15	85.44	12	P	P	00 33 42.8	-1.3
J18K	Innoko River baz=196,SNR=19	85.46	8	P	P	00 33 42.7	-1.4
BKNI	Benign baz=195,SNR=19	85.49	272	P	P	00 33 44.6	-0.8
MA2	Magadan comp=Z,322nm,20.7s,baz=168,slow=33	85.53	343	LR	LR	01 07 42.1	
PINM	Pinnacle baz=211	85.53	16	P	P	00 33 43.0	-1.6
PPLA	Purkeypile baz=200	85.56	10	P	P	00 33 43.1	-1.6
R32K	Eaglecrest baz=216	85.65	20	P	P	00 33 42.8	-2.4
K20K	Telida baz=198,SNR=11	85.71	9	P	P	00 33 44.1	-1.2
ANM	Nome baz=188	85.74	4	P	P	00 33 43.0	-2.5
NEW	Newport comp=Z,623nm,18.9s,baz=202,slow=32	85.76	34	LR	LR	01 07 12.9	
N25K	Chitina, Valde baz=207,SNR=12	85.81	14	P	P	00 33 44.0	-1.9
P29M	Windy Craggy baz=213	85.81	18	P	P	00 33 42.4	-3.5
M24K	Tolsona, Glenn baz=206	85.92	13	P	P	00 33 44.2	-2.3
MCAR	McCarthy VSAT	85.97	14	P	P	00 33 44.6	-2.0
PLCA	Paso Flores comp=Z,221nm,20.0s,baz=131,slow=36	86.00	132	LR	LR	01 03 52.8	
CTG	Chitna Glacier baz=210,SNR=9.9	86.00	15	P	P	00 33 44.7	-2.3
H16K	Elina baz=191	86.04	5	P	P	00 33 45.0	-1.9
WAT6	Susitna Watana baz=204,SNR=15	86.04	12	P	P	00 33 44.4	-2.8
PLBC	Pleasant Camp baz=211	86.06	18	P	P	00 33 45.3	-1.9
T35M	Bob Quinn baz=220	86.06	22	P	P	00 33 44.6	-2.6
CAST	Castle Rocks comp=Z,10nm,0.8s	86.07	10	P	IAMB	00 33 46.9	-0.2
CAST	Castle Rocks	86.07	10	P	IAMB	00 33 52.7	
CAST	Castle Rocks baz=200,SNR=16	86.07	10	P	P		

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Table with columns: Code, Station Name, Az, El, P, S, Res, Time, Res. Includes stations like E20K Nigu River, G25K Bearman Lake, B11L Bilibino, etc.

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Table with columns: Code, Station Name, Az, El, P, S, Res, Time, Res. Includes stations like MKAR Makanchi Array, KURBB Kurchatov Arr, BVAR Borovoye Array, etc.

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Table with columns: Code, Station Name, Az, El, P, S, Res, Time, Res. Includes stations like TIP Timpagrande, TORO Torodi Arr, TORO Torodi Arr, etc.



CMAR	Chiang Mai Arr	11.34	210	P	Pn	00 31 02.5 +2.3
GTA	Gaotai	11.76	340	pP	Pn	00 31 08.4 +2.5
GTA	comp=Z,13nm,1.2s			LR	LR	00 31 13.3
GTA	comp=N,1µm,14.5s			LR	LR	
GTA	comp=E,3µm,14.2s			LR	LR	
LSA	Lhasa	12.13	279	P	Pn	00 31 12.2 +0.8
LSA	Lhasa	12.13	279	P	Pn	00 31 13.1 +1.7
LSA	Lhasa	12.13	279	S	Sn	00 33 33.8 +6.7
LSA	comp=Z,6.0nm,0.5s			pmax	pmax	
HNS	HongShan	12.13	279	P	Pn	00 31 12.2 +0.8
HNS	HongShan	12.14	40	P	Pn	00 31 12.5 +1.5
HNS	comp=N,590nm,8.0s			LR	LR	
HNS	comp=E,630nm,9.2s			LR	LR	
HNS	comp=Z,690nm,10.4s			LR	LR	
NJ2	Nanjing	12.56	70	eP	Pn	00 31 17.3 +0.5
NJ2	comp=Z,9.0nm,0.6s			LR	LR	
NJ2	comp=N,970nm,9.0s			LR	LR	
NJ2	comp=E,1µm,9.0s			LR	LR	
BJT	Baotou	12.85	18	eP	Pn	00 31 21.3 +0.4
BTO	BTO			pP	Pn	00 31 29.8
BTO	BTO			S	Sn	00 31 32.5 +3.7
BTO	BTO			pmax	pmax	00 33 46.9 +2.9
BTO	comp=Z,65nm,0.9s			LR	LR	
BTO	comp=Z,2µm,11.2s			LR	LR	
BTO	comp=Z,1µm,4.7s			LR	LR	
BTO	comp=Z,2µm,9.8s			LR	LR	
TIA	Tai'an	12.89	50	P	Pn	00 31 22.8 +1.4
TIA	comp=Z,15nm,1.3s			LR	LR	
TIA	comp=Z,1µm,11.6s			LR	LR	
TIA	comp=Z,1µm,13.9s			LR	LR	
TIA	comp=Z,1µm,8.7s			LR	LR	
BRDH	Bariadaha	13.29	248	LR	LR	00 37 29.9
HHC	comp=Z,458nm,18.1s,baz=82,slow=42			P	Pn	00 31 30.5 +0.3
HHC	Hu-ho-hao-te	13.54	22	eP	P	00 31 37.3 -2.1
HHC	comp=Z,14nm,0.6s			pmax	pmax	
HHC	comp=Z,95nm,6.2s			LR	LR	
HHC	comp=Z,740nm,8.1s			LR	LR	
HHC	comp=Z,380nm,7.6s			LR	LR	
HHC	comp=Z,670nm,9.6s			LR	LR	
BJT	Baijiatou	14.82	36	P	Pn	00 31 47.5 -0.1
BJT	Baijiatou	14.82	36	P	Pn	00 31 47.5 -0.1
BJT	Baijiatou	14.84	36	P	Pn	00 31 48.8 +0.9
BJT	comp=Z,1µm,11.6s			pP	Pn	00 31 52.4 +1.3
BJT	comp=Z,1µm,13.9s			S	Sn	00 31 56.3
BJT	comp=Z,1µm,8.7s			pmax	pmax	00 34 34.5 +2.2
BJT	comp=Z,7.0nm,1.3s			pmax	pmax	
SSLB	Suangleung	15.11	104	P	Pn	00 31 52.1 +0.5
NACB	Ninganchiao	15.52	102	Pn	Pn	00 31 59.5 +2.4
EVN	Everest	15.99	273	Pn	Pn	00 32 03.1 -0.6
DL2	Dalian	17.36	49	P	Pn	00 32 23.3 +1.6
DL2	comp=Z,21nm,1.1s			LR	LR	
DL2	comp=Z,630nm,14.1s			LR	LR	
DL2	comp=Z,600nm,14.7s			LR	LR	
XLT	XilinHaoTe	17.85	27	eP	P	00 32 29.3 +2.1
XLT	XLT			pP	S	00 32 38.3 +6.8
XLT	XLT			SS	SS	00 36 13.3 +2.1
XLT	comp=Z,30nm,0.8s			pmax	pmax	
XLT	comp=Z,39nm,7.6s			LR	LR	
XLT	comp=Z,380nm,9.2s			LR	LR	
XLT	comp=Z,470nm,13.8s			LR	LR	
SOMN	Songino Array	19.41	3	P	Pn	00 32 45.1 -0.5
SOMN	Songino Array	19.41	3	P	Pn	00 32 45.1 -0.5
SOMN	comp=Z,2.7nm,0.3s,baz=185,slow=12,SNR=36			PcP	PcP	00 37 06.3 +0.5
SOMN	comp=Z,0.5nm,0.5s,baz=187,slow=3.8,SNR=2.2			Lg	Lg	00 38 34.7
SOMN	comp=Z,0.3nm,0.3s,baz=176,slow=25,SNR=2.1			LR	LR	00 41 12.8
SOMN	comp=Z,322nm,20.8s,baz=182,slow=40			LR	LR	
SOMN	comp=Z,5.0nm,0.4s			LR	LR	
ULN	Ulanbaatar	19.48	4	P	Pn	00 32 45.4 +0.1
ULN	Ulanbaatar	19.48	40eP	Pn	Pn	00 32 46.9 +0.5
ULN	comp=Z,9.0nm,0.6s			pmax	pmax	
SNY	Shenyang	20.22	44	pP	Pn	00 32 54.8 -0.3
SNY	comp=Z,20nm,0.6s			pmax	pmax	
SNY	comp=Z,100nm,5.6s			LR	LR	
SNY	comp=Z,560nm,20.0s			LR	LR	
SNY	comp=Z,470nm,17.0s			LR	LR	
SNY	comp=Z,400nm,11.2s			LR	LR	
INCN	Inchon	20.29	58	P	P	00 32 53.7 -0.2
INCN	Inchon	20.29	58	P	P	00 32 53.7 -0.2
INCN	comp=Z,23nm,0.9s			pmax	pmax	
TJN	Tajon	20.50	62	P	P	00 32 56.0 -0.2
TJN	Tajon	20.50	62	P	P	00 32 56.0 -0.2
TJN	comp=Z,357nm,1.8s			pmax	pmax	
WMQ	Urumqi	20.68	323	eP	P	00 32 58.5 +0.3
WMQ	comp=Z,21nm,0.7s			LR	LR	
WMQ	comp=Z,780nm,11.5s			LR	LR	
WMQ	comp=Z,510nm,12.1s			LR	LR	
JOW	Kunigami	20.73	89	LR	LR	00 41 35.0
KSAR	Wonju Array Be	21.21	59	P	P	00 33 03.4 -0.5
KSAR	Wonju Array Be	21.21	59	P	P	00 33 03.4 -0.5
KS19	Wonju Array Si	21.22	59	P	P	00 33 04.2 +0.2
KS19	Wonju Array Si	21.22	59	IAMB	IAMB	00 33 07.4
KSRS	Korea Array	21.25	59	P	P	00 33 05.1 +0.9
KSRS	comp=Z,11nm,0.7s,baz=243,slow=10,SNR=60			S	S	00 37 01.4 +1.0
ZAK	Zakamensk	21.97	357	eP	P	00 33 12.7 +0.7
ZAK	comp=Z,30nm,1.0s			pmax	pmax	
CN2	Changchun	22.49	42	P	P	00 33 17.6 0.0
CN2	CN2			pP	Pn	00 33 46.1 +5.3
CN2	CN2			SS	SS	00 37 34.5 -2.8
CN2	comp=Z,20nm,0.7s			pmax	pmax	
CN2	comp=Z,150nm,4.5s			LR	LR	
CN2	comp=Z,170nm,12.0s			LR	LR	
CN2	comp=Z,450nm,12.0s			LR	LR	
JNU	Nakatsue	22.75	72	P	P	00 33 20.0 -0.5

JNU	Nakatsue	22.75	72	LR	LR	00 41 51.1
KULM	Kulim	23.36	191	P	IAMB	00 33 27.3 +0.5
KULM	comp=Z,266nm,20.2s,baz=255,slow=36			IAMB	IAMB	00 33 30.9
MOY	Mondy	23.41	354	eP	pmax	00 33 28.0 +0.9
MOY	comp=Z,78nm,1.8s			pmax	pmax	
HIA	Hailar	23.71	25	P	IAMB	00 33 30.5 +0.4
HIA	HIA	23.71	25	P	IAMB	00 33 33.4
HIA	comp=Z,44nm,1.4s			pmax	pmax	
HIA	Hailar	23.71	25	P	pmax	00 33 30.5 +0.4
ZSN	Zaisan	24.60	326	eP	P	00 33 38.7 +0.4
ZSN	comp=Z,16nm,0.9s			pmax	pmax	
ZSN	Zaisan	24.60	326	eP	P	00 33 38.8 +0.4
ZSN	comp=Z,16nm,0.9s			pmax	pmax	
BNX	BinXian	24.77	40	pP	pmax	00 33 41.0 +1.2
BNX	comp=Z,26nm,0.9s			pmax	pmax	
SHLS	Shalkode	25.23	312	eP	P	00 33 42.0 -2.2
SHLS	Shalkode	25.23	312	eP	P	00 33 42.1 -2.2
SHLS	Shalkode	25.23	312	eP	P	00 33 47.0 +0.4
MKAR	Makanchi Array	25.51	322	eP	P	00 33 46.2 -0.4
MKAR	Makanchi Array	25.51	322	eP	P	00 33 46.4 -0.1
MKAR	comp=Z,8.8nm,0.8s,baz=128,slow=10,SNR=60			PcP	PcP	00 37 16.5 -1.5
MKAR	comp=Z,1.2nm,0.8s,baz=146,slow=2.8,SNR=3.7			S	S	00 38 16.8 +2.9
MKAR	comp=Z,0.2nm,0.7s,baz=112,slow=14,SNR=1.3			ScP	ScP	00 40 57.4 -0.1
MKAR	comp=Z,0.9nm,0.9s,baz=103,slow=4.6,SNR=3.7			LR	LR	00 44 24.0
MKAR	comp=Z,209nm,19.2s,baz=128,slow=38			LR	LR	
UZB	Uzymbulak	25.52	312	eP	P	00 33 47.1 +0.3
UZB	Uzymbulak	25.52	312	eP	P	00 33 47.1 +0.3
MAKZ	Makanchi	25.69	322	P	IAMB	00 33 48.0 -0.1
MAKZ	Makanchi	25.69	322	P	IAMB	00 33 51.0
MAKZ	comp=Z,14nm,0.9s			pmax	pmax	00 33 48.1 -0.1
TARG	Taragay, Kyrgy	25.75	308	P	P	00 33 49.6 +0.3
TARG	Taragay, Kyrgy	25.75	308	P	P	00 33 49.8 +0.3
TARG	comp=Z,7.0nm,0.7s			pmax	pmax	
KPKS	Kokpek	25.88	312	eP	P	00 33 50.3 +0.2
KPKS	Kokpek	25.88	312	eP	P	00 33 50.4 +0.3
SATY	Saty	25.88	311	eP	P	00 33 50.4 +0.3
SATY	Saty	25.88	311	eP	P	00 33 50.4 +0.3
PSI	Prapat	26.12	194	P	pmax	00 33 53.7 +1.3
PSI	comp=Z,14nm,0.9s			pmax	pmax	
VLA	Vladivostok	26.18	49	iP	P	00 33 50.4 -2.3
VLA	comp=Z,16nm,0.9s			pmax	pmax	
RPSI	Rantau Prapat	26.22	194	P	IAMB	00 33 53.7 +0.5
RPSI	Rantau Prapat	26.22	194	P	IAMB	00 34 03.0
KSH	Kashi	26.34	302	P	pP	00 33 57.0 +2.7
KSH	Kashi	26.34	302	P	pP	00 33 59.8 +1.0
KSH	comp=Z,3.0nm,0.8s			LR	LR	
KSH	comp=Z,410nm,14.4s			LR	LR	
KSH	comp=Z,280nm,18.2s			LR	LR	
USA0A	Ussuriysk Arra	26.72	47	P	P	00 33 57.6 0.0
USA0B	Ussuriysk Arra	26.72	47	P	P	00 33 57.6 0.0
USA0B	comp=Z,22nm,0.7s			pmax	pmax	
USRK	Ussuriysk Arr	26.73	47	P	P	00 33 57.9 +0.3
USRK	Ussuriysk Arr	26.73	47	P	P	00 33 58.1 +0.5
USRK	comp=Z,21nm,0.6s,baz=254,slow=9.0,SNR=56			pmax	pmax	
TDK	Taldyqorghan	26.78	315	eP	P	00 33 58.3 +0.2
TDK	Taldyqorghan	26.78	315	eP	P	00 33 58.4 +0.2
MDOK	Medeo	26.83	311	eP	P	00 33 59.0 +0.3
MDOK	Medeo	26.83	311	eP	P	00 33 59.0 +0.3
NRN	Naryn	26.91	306	P	P	00 33 58.2 -1.4
NRN	Naryn	26.91	306	P	P	00 33 58.3 -1.4
NRN	comp=Z,8.0nm,1.1s			pmax	pmax	
BOOM	Boomskeye usch	27.32	309	P	IAMB	00 34 03.0 -0.2
BOOM	Boomskeye usch	27.32	309	P	IAMB	00 34 03.1
BOOM	comp=Z,19nm,1.2s			pmax	pmax	00 34 03.0 -0.2
BOOM	Boomskeye usch	27.32	309	P	pmax	00 34 03.0 -0.2
NIL	Nilore	27.58	289	P	IAMB	00 34 05.0 -0.5
NIL	Nilore	27.58	289	P	IAMB	00 34 13.3
NIL	comp=Z,11nm,0.5s			pmax	pmax	00 34 05.0 -0.5
NIL	Nilore	27.58	289	P	pmax	00 34 05.0 -0.5
KUU	Kuryt	27.60	312	eP	P	00 34 05.9 +0.4
KUU	Kuryt	27.60	312	eP	P	00 34 05.9 +0.4
JGF	Ala-Archa	28.32	302	iP	P	00 34 11.8 -0.8
AAK	Ala-Archa	28.37	308	iP	P	00 34 11.8 -0.8
AAK	comp=Z,8.0nm,2.2s			pmax	pmax	
MAJO	Matsushiro	29.10	65	P	IAMB	00 34 19.3 +0.4
MAJO	Matsushiro	29.10	65	P	IAMB	00 34 27.5
MAJO	comp=Z,46nm,1.8s			pmax	pmax	00 34 19.3 +0.4
ZAAO	Zalesovo Array	29.45	336	P	P	00 34 20.8 -1.0
ZALV	Zalesovo Beam	29.45	336	P	P	00 34 21.6 -0.2
ZALV	Zalesovo Beam	29.45	336	P	P	00 34 21.3 -0.5
ZALV	comp=Z,5.7nm,0.6s,baz=137,slow=8.6,SNR=27			S	S	00 39 14.7 -1.1
ZALV	comp=Z,0.4nm,0.5s,baz=121,slow=17,SNR=1.9			LR	LR	00 47 01.0
ZALV	comp=Z,1.73nm,18.1s,baz=148,slow=38			LR	LR	
DRK	Karamyk	29.47	301	P	P	00 34 21.6 -0.9
DRK	Karamyk	29.47	301	P	P	00 34 21.6 -0.9
DRK	comp=Z,15nm,0.3s			pmax	pmax	
BTLS	Baital	29.57	312	eP	P	00 34 22.5 -0.4
BTLS	Baital	29.57	312	eP	P	00 34 22.5 -0.4
KURBB	Kurchatov Arra	29.83	325	P	P	00 34 24.9 -0.3
KURBB	Kurchatov Arra	29.83	325	P	P	00 34 24

Table with columns for station ID, name, coordinates, and various data points. Includes stations like MNK, M13K, L14K, A22K, etc.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like HFS, M13K, L14K, A22K, etc.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like N17K, ZVC, E23K, CKRC, etc.

E27K	Coleen River	72.06	21	P	P	00 39 42.6 +0.6
PRP	Porcupine Dome	72.08	24	P	Iamb	00 39 42.9 +0.5
PRP	Porcupine Dome	72.08	24	P	Iamb	00 39 43.0 +0.7
HDA	Harding Lake	72.09	26	P	P	00 39 42.3 +0.1
SQTA	Sankt Quirin	72.10	314	i P	P	00 39 42.1 -0.7
MOTA	Mossalm	72.12	315	i P	P	00 39 42.4 -0.5
WAT1	Susitna Watana	72.20	28	P	P	00 39 43.0 0.0
RETA	Reutte	72.28	315	eP	P	00 39 43.1 -0.7
HOMR	Home	72.29	31	P	P	00 39 43.4 0.0
D28M	Stokes Point	72.31	20	P	P	00 39 43.4 0.0
Q20K	Shuyak Island	72.40	32	P	P	00 39 44.1 0.0
SII	Sitkinak Island	72.41	35	P	P	00 39 44.1 -0.2
E28M	Babbage River	72.47	20	P	P	00 39 44.5 +0.1
FDMO	Floridomte	72.48	310	P	P	00 39 44.9 -0.1
FETA	Feichten	72.48	314	eP	P	00 39 44.5 -0.5
RC01	Rabbit Creek A	72.50	29	P	P	00 39 45.0 +0.3
PMR	Palmer	72.53	29	P	P	00 39 45.4 +0.6
GHO	Glory Hole Cre	72.53	29	P	Iamb	00 39 45.8 +0.8
DHY	Denali Highway	72.56	27	P	P	00 39 45.3 +0.1
OHAK	Old Harbor	72.57	34	P	P	00 39 45.8 +0.7
J25K	Salcha River	72.58	25	P	P	00 39 44.8 -0.5
WAT6	Susitna Watana	72.64	28	P	P	00 39 46.2 +0.4
BRSE	Bradley Lake S	72.67	31	P	P	00 39 46.2 +0.5
KDAK	Kodiak Island	72.67	33	P	P	00 39 46.1 +0.4
KDAK	Kodiak Island	72.67	33	P	P	00 39 46.1 +0.4
SML	Sawmill	72.77	28	P	P	00 39 46.9 +0.5
G27K	Doyon Strip	72.77	22	P	P	00 39 47.0 +0.8
K24K	Donnelly Dome	72.83	26	P	P	00 39 46.5 -0.2
KNK	Knik Glacier	72.90	29	P	P	00 39 47.5 +0.4
DAVA	Damuels	72.91	315	eP	P	00 39 46.9 -0.7
F28M	Old Crow	72.92	21	P	P	00 39 47.5 +0.4
FUORN	Ofenpass-Fuorn	72.93	314	P	Iamb	00 39 47.2 -0.6
M23K	Glacier View	73.03	28	P	P	00 39 48.3 +0.5
I26K	Coal Creek Min	73.04	24	P	P	00 39 48.2 +0.4
SEW	Seward	73.08	30	P	P	00 39 48.1 0.0
E29M	Blow River	73.09	20	P	P	00 39 48.6 +0.5
DAVOX	Davos/Dischmat	73.11	314	LR	LR	01 14 46.4
H27K	Steamboat Moun	73.12	23	P	P	00 39 49.0 +0.6
SCM	Sheep Creek Mo	73.17	28	P	P	00 39 49.3 +0.5
PWL	Port Wells	73.21	29	P	P	00 39 49.3 +0.4
RIDG	Independent Ri	73.22	26	P	Iamb	00 39 48.5 -0.5
RIDG	Independent Ri	73.22	26	P	Iamb	00 39 48.7 -0.3
J26L	Joseph Creek	73.31	25	P	P	00 39 49.5 -0.1
PAX	Paxson	73.37	27	P	P	00 39 49.7 -0.2
NEEM	North Greenlan	73.38	355	i P	Iamb	00 39 50.0 0.0
SCRK	Sand Creek	73.43	25	P	P	00 39 50.2 -0.1
I27K	Kandik River	73.43	23	P	P	00 39 51.0 +0.7
BFO	Black Forest	73.44	316	P	Iamb	00 39 49.8 -0.8
BFO	Black Forest	73.44	316	P	Iamb	00 39 49.8 -0.8
M24K	Tolsona Glenn	73.51	28	P	P	00 39 51.6 +0.8
TUE	Stuetta	73.57	314	P	Iamb	00 39 51.0 -0.6
GLI	Glacier Island	73.73	29	P	P	00 39 52.5 +0.4
HARP	HAARP	73.78	27	P	P	00 39 52.8 +0.5
G29M	Pine Creek	73.91	21	P	P	00 39 53.2 +0.2
KLU	Klutina	73.92	28	P	P	00 39 53.5 +0.2
P23K	Montague Isan	74.03	30	P	P	00 39 54.3 +0.5
A36M	Sachs Harbour	74.07	14	P	P	00 39 54.3 +0.6
I28M	Miner Creek	74.10	23	P	P	00 39 54.8 +0.6
K27K	Chicken	74.12	25	P	P	00 39 54.9 +0.7
L26K	Log Cabin Wild	74.17	26	P	P	00 39 55.0 +0.5
DIV	Divide	74.17	28	P	Iamb	00 39 54.4 -0.3
WLF	Walferdange	74.19	318	P	Iamb	00 39 54.6 -0.3
WLF	Walferdange	74.19	318	P	Iamb	00 39 54.6 -0.3
H29M	Whitstone	74.19	22	P	P	00 39 54.9 +0.3
F30M	Barrier River	74.19	20	P	P	00 39 55.0 +0.3
N25K	Chitina, Valde	74.41	28	P	P	00 39 56.8 +0.7
INK	Inuvik	74.44	19	P	Iamb	00 39 55.9 -0.1
INK	Inuvik	74.44	19	P	Iamb	00 39 55.9 -0.1
INK	Inuvik	74.44	19	P	Iamb	00 39 55.9 -0.1
INK	Inuvik	74.44	19	P	Iamb	00 39 55.9 -0.1
G30M	Aah Zrait Mji	74.44	21	P	P	00 39 55.9 -0.2
EYAK	Cordova Ski Ar	74.47	29	P	P	00 39 57.2 +0.9
M26K	Nabesna, AK	74.64	27	P	P	00 39 58.0 +0.7
EPYK	Eagle Plains	74.65	22	P	P	00 39 57.3 0.0
L27K	Beaver Creek	74.73	26	P	P	00 39 58.7 +0.8
BMRM	Bremner River	74.74	28	P	Iamb	00 39 58.4 +0.5
BMRM	Bremner River	74.74	28	P	Iamb	00 39 58.4 +0.5
BCAR	Beaver Creek A	74.75	26	P	P	00 39 58.8 +0.8

Q23K	Middleton Isla	74.78	30	P	P	00 39 58.5 +0.5
F31M	Tsiightehoch	74.92	20	P	P	00 39 58.7 -0.1
DAWY	Dawson	75.08	24	P	P	00 39 59.5 -0.3
DAWY	Dawson	75.08	24	P	P	00 39 59.9 +0.1
VRDI	Verde Repeater	75.08	28	P	Iamb	00 40 01.4 +0.3
G31M	Satah River	75.08	21	P	P	00 39 59.4 -0.3
M27K	Edge Creek, AK	75.10	26	P	P	00 40 00.7 +0.5
VOI	Vohtsoka	75.17	235	P	P	00 40 00.8 -0.2
MCARA	McCarthy VSAT	75.17	27	P	P	00 40 01.0 +0.7
J29N	Klondike Camp	75.27	24	P	P	00 40 01.4 +0.4
I30M	Mount Dempster	75.45	22	P	P	00 40 01.9 -0.2
BVCY	Beaver Creek	75.47	26	P	P	00 40 02.6 +0.5
CRQE	Cirque	75.48	28	P	P	00 40 02.7 +0.3
H31M	Peel River	75.76	21	P	P	00 40 03.7 0.0
J30M	Harvest	75.86	23	P	P	00 40 05.0 +0.6
BNI	Bardonecchia	75.86	314	P	Iamb	00 40 04.1 -0.7
BNI	Bardonecchia	75.86	314	P	Iamb	00 41 35.0
BNI	Bardonecchia	75.86	314	P	Iamb	00 40 04.1 -0.7
K29M	Barlow Dome	75.88	24	P	P	00 40 05.2 +0.6
YUK3	Moosic Creek	75.98	26	P	P	00 40 05.8 +0.6
CTG	Chitna Glacier	76.08	27	P	P	00 40 06.4 +0.6
CTGM	Chitina Glacie	76.09	27	P	Iamb	00 40 06.3 +0.5
L29M	L29M	76.09	25	P	P	00 40 06.7 +1.0
SUMG	Summit	76.20	349	P	Iamb	00 40 06.5 -0.1
SUMG	Summit	76.20	349	P	Iamb	00 40 06.5 -0.1
SUMG	Summit	76.20	349	P	Iamb	00 40 06.2 -0.4
SUMG	Summit	76.20	349	P	Iamb	00 40 07.6
C36M	Peuzic Creek	76.25	16	P	P	00 40 06.3 0.0
MESA	MESA	76.27	28	P	P	00 40 07.4 +0.5
RES	Resolute Bay	76.33	5	P	Iamb	00 40 07.2 +0.4
RES	Resolute Bay	76.33	5	P	Iamb	00 40 41.0
RES	Resolute Bay	76.33	5	P	Iamb	00 40 07.2 +0.4
M29M	Somme Creek	76.36	25	P	P	00 40 08.0 +0.7
EKA	Eskdalemir Ar	76.57	326	P	P	00 40 06.8 -1.6
O28M	Mount Upton	76.66	27	P	P	00 40 09.6 +0.3
YUK4	Talbot Arm	76.94	26	P	P	00 40 11.0 +0.2
PINM	Pinnacle	77.02	28	P	P	00 40 11.7 +0.7
YUK6	Outpost Mounta	77.29	27	P	P	00 40 13.2 +0.5
N30M	Aiskit Lake	77.47	26	P	P	00 40 14.4 +0.8
O29M	Mount Kennedy	77.58	27	P	P	00 40 14.8 +0.5
PNL	Peninsula	77.62	28	P	P	00 40 15.2 +0.9
HYT	Haines Junctio	77.70	26	P	Iamb	00 40 15.3 +0.4
HYT	Haines Junctio	77.70	26	P	Iamb	00 40 16.8
HYT	Haines Junctio	77.70	26	P	Iamb	00 40 15.6 +0.8
N31M	Braeburn, Yuko	77.95	25	P	P	00 40 17.1 +0.9
M31M	Drury Creek, Y	78.02	24	P	P	00 40 17.0 +0.5
KEST	Kesra	78.14	304	P	Iamb	00 40 16.9 -0.9
KEST	Kesra	78.14	304	P	Iamb	00 41 47.7
KEST	Kesra	78.14	304	P	Iamb	00 40 17.6 -0.2
BORG	Borgarnes	78.22	339	P	Iamb	00 40 17.9 +0.4
BORG	Borgarnes	78.22	339	P	Iamb	00 40 20.2
BORG	Borgarnes	78.22	339	P	Iamb	00 40 17.9 +0.4
O30N	Mendenhall	78.28	26	P	P	00 40 18.6 +0.6
P29M	Windy Craggy	78.32	27	P	P	00 40 18.9 +0.6
P30M	Million Dollar	78.34	27	P	P	00 40 18.8 +0.4
FARO	Faro, Yukon	78.38	24	P	P	00 40 19.1 +0.6
SOEG	Soedalen	78.39	345	i P	Iamb	00 40 18.3 0.0
WHY	Whitehorse	78.81	26	P	P	00 40 21.6 +0.5
MMPY	Sheldon Lake,	78.85	23	P	P	00 40 21.7 +0.6
PL6C	Pleasant Camp	78.98	27	P	P	00 40 22.1 +0.2
N32M	Quiet Lake	79.17	25	P	P	00 40 23.2 +0.3
ICESG	Greenland Ices	79.39	348	i P	Iamb	00 40 23.6 -0.7
SKAG	Skagway	79.40	27	P	P	00 40 24.4 +0.4
P33M	Teslin, Yukon	79.89	25	P	P	00 40 26.8 0.0
P32M	Atlin	79.95	26	P	P	00 40 27.8 +0.5
S31K	Pelican	79.97	28	P	P	00 40 27.6 +0.6
R32K	Eaglecrest	80.47	27	P	P	00 40 30.6 +0.7
TGNT	Hyland Airport	80.63	23	P	P	00 40 31.1 +0.2
SIT	Sitka	80.92	29	P	P	00 40 32.6 +0.3
WRGLY	Wrigley	80.95	20	P	P	00 40 32.8 +0.4
S32K	Killisnoo	80.97	28	P	P	00 40 33.0 +0.4
R33M	Jennings River	81.13	25	P	P	00 40 34.2 +0.5
S34M	Telegraph Cree	82.07	27	P	P	00 40 39.0 +0.5
WRAK	Wrangell Islan	82.58	28	P	P	00 40 41.8 +0.7
BEAVL	For Liard	82.69	23	P	P	00 40 42.4 +0.7
T35M	Bob Quinn	83.05	27	P	P	00 40 44.3 +0.7
SFJD	Kangerlussuaq	83.09	351	i P	Iamb	00 40 43.6 0.0
TOAD	Toad River Com	83.61	24	P	P	00 40 47.3 +0.8
V35K	Ketikan	83.62	29	P	P	00 40 47.4 +0.9
YKAW3	Yellowknife Wh	83.97	17	P	Iamb	00 40 48.7 +0.6
YKA	Yellowknife Ar	84.03	17	P	P	00 40 48.5 0.0

YKA	Yellowknife Ar	84.03	17	i P	P	00 40 49.0 +0.5
ESDC	Sonsecsa Array	85.36	313	P	P	00 40 55.4 -0.3
LSZ	Lusaka	85.94	250	P	Iamb	00 40 58.2 -0.8
LSZ	Lusaka	85.94	250	P	Iamb	00 42 04.7
BLKN	Baker Lake	86.12	9	P	P	00 40 58.4 -0.5
IVI	Ivigtut	88.05	347	i P	Iamb	00 41 08.0 -0.3
TORD	Torodi Ar. Bea	95.14	288	P	P	00 41 41.5 -0.6
SCHO	Schefferville	96.79	355	LR	LR	01 26 22.9
VNDA	Vanda	110.95	169	PKK(Pbc	PKK(Pbc	00 57 47.1 -3.2
TXAR	Lajitas Array	116.39	28	PKI	PKI	00 47 02.0 -0.5
QSPA	South Pole Qui	118.20	180	PKP	PKP	00 47 03.8 -0.9
QSPA	South Pole Qui	118.20	180	PKP	PKP	00 57 23.8 -0.5
TROLL	Troll, Antarti	120.59	201	PKP	PKP	00 47 08.7 -0.6
SNA4	Sanae	122.29	201	PKP	PKP	00 47 11.4 -1.1
SNA4	Sanae	122.29	201	PKP	PKP	00 47 10.7 -1.7
VNA2	Neumayer-Watz	123.86	201	PKP	PKP	00 47 15.0 -0.4
VNA3	Neumayer Olymp	124.52	201	PKP	PKP	00 47 16.1 -0.6
ROSC	El Rosal	146.92	359	PK(Pbc	PK(Pbc	00 48 02.0 0.0
ROSC	El Rosal	146.92	359	PK(Pbc	PK(Pbc	00 48 02.0 0.0
BDFB	Brasilia	151.97	291	PK(Pbc	PK(Pbc	00 48 11.6 -2.7
LPAZ	La Paz	166.34	331	PKP	PKP	00 48 24.3 -0.8

ROM 23 00:36:48.9-0.1, 43.210N,0.004-12.317E,0.005, h10



ESDC Sonseca Array 18.35 237 P Pn 02 08 06.9 -3.0
comp=2.0,1nm,0.2s,baz=29,slow=16,SNR=1.3
ARCES ARCESS Array B 18.53 10 P P 02 08 10.5 -1.3
comp=2.1,4nm,0.8s,baz=188,slow=9.6,SNR=2.0

NEIC 23 02:12:27.4+1.5,44.0N,0.1x128.2W,0.2,h10km,2km,
ML3.1/52, Error ellipse: s-maj=22.8km s-min=15.6km
az=245.0
IDC 23 02:12:28.3+2.8,44.06N,128.07W,h0km,mb3.1/3,
mbmp3.3/7,ML3.3/4,MS3.2/10, Error ellipse:
s-maj=58.9km s-min=17.3km az=55.0
ISC 23 02:12:30.3+1.9,44.1N,0.1x128.1W,0.2,h10km,n44,
r124/29,MS3.4/6,Off coast of Oregon

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists various seismic stations including Edson Butte, Mount Hebo, Buck Mountain, etc.

NOU 23 02:14:16.1, 37.46S, 177.77E, h177km, MLV3.6/11, Off E.
Coast of N. Island, NZ.
WEL 23 02:14:22.1+1.1, 37.57S, 177.77E, h99km, 14km, M2.9/13,
ML3.0/13, MLV2.9/13, Error ellipse: s-maj=9.8km
s-min=7.1km az=165.2, confirmed
ISC 23 02:14:17.2+2.2, 37.305S, 108.47747E, 0.06,
h154km, 12km, n53, r135/73, Off east coast of North
Island

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like HAZ, Raukumara Rang, MXZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like TWGZ, PUKETTI, EDRC, etc.

IDC 23 02:14:59.3+0.7, 14.44S, 166.79E, h0km, mb4.2/13,
mbmp4.2/14, ML4.3/1, MS3.6/11, Error ellipse:
s-maj=27.8km s-min=16.6km az=95.0
NOU 23 02:15:03.9, 14.55S, 166.82E, h0km, MLV5.2/13, Vanuatu
Islands

NEIC 23 02:15:05.8+2.0, 14.54S, 0.05x166.86E, 0.08, h35km, 1km,
mb4.9/23, Error ellipse: s-maj=14.6km s-min=7.1km
az=291.0
ISC 23 02:15:05.1+0.6, 14.52S, 0.06x166.78E, 0.10, h35km, n64,
r136/55, mb4.6/24, MS3.6/10, Vanuatu Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like SARAOUITOU, DZM, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like MA2, GSPA, M14K, etc.

FUNV 23 02:17:25.3, 10.92N, 172.39W, h14km, MW3.2
RNSC 23 02:17:26.4+0.0, 11.1N, 3x7.3W, h34km, 10km, M2.5,
ML2.5, MLV3.2
ISC 23 02:17:24.4+1.3, 10.97N, 0.04x72.41W, 0.04, h25km, 14km,
n14, r156/24, Venezuela

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like CRJC, URIBIA, etc.

NDI 23 02:35:09.4+2.4, 9.94N, 93.96E, h10km, ML4.2, MW4.3,
mb4.3(NEIC)
IDC 23 02:35:10.3+1.1, 10.25N, 93.54E, h0km, mb3.8/13,
mbmp3.8/14, ML4.0/1, MS3.2/1, Error ellipse:
s-maj=38.3km s-min=20.5km az=52.0
NEIC 23 02:35:10.2+2.3, 10.0N, 0.1x93.9E, 0.1, h10km, 1km,
mb4.3/7, Error ellipse: s-maj=23.0km s-min=13.2km
az=38.0
ISC 23 02:35:13.3+0.7, 10.28N, 0.09x93.92E, 0.07, h19km, n33,
r154/36, mb3.9/17, Andaman Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like PBA, DGP, SRIT, etc.







23d 3h

Table with columns for station ID, name, elevation, and various data points. Includes stations like Liberty Lake, Quiet Lake, Smith Ranch, etc.

2019 JUN

Table with columns for station ID, name, elevation, and various data points. Includes stations like P38A, N38A, SPMN, etc.

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Table with columns for station ID, name, elevation, and various data points. Includes stations like HARP, X40A, MENT, etc.

HBAR	Harrisburg	26.82	89	IAMS_20	IAMS_20	04 09 58.4
I28M	Miner Creek	26.82	345	Iamb	Iamb	03 58 59.3
I28M	Miner Creek	26.82	345	IAMS_20	IAMS_20	04 08 07.2
I28M	Miner Creek	26.82	345	P	P	03 58 43.6 +0.3
F42A	Maple Grove Fa	26.83	66	Iamb	Iamb	03 58 47.1
F42A	Maple Grove Fa	26.83	66	IAMS_20	IAMS_20	04 09 53.9
Q18K	Katmai Hardscr	26.83	324	P	P	03 58 43.4 -0.1
RED	Redoubt Volcan	26.84	328	Iamb	Iamb	03 58 53.8
WAT1	Susitna Watana	26.90	335	P	P	03 58 44.2 +0.2
K43A	Burlington	26.90	73	Iamb	Iamb	03 59 02.6
K43A	Burlington	26.90	73	IAMS_20	IAMS_20	04 10 14.1
SPU	Mount Spurr	27.02	330	Iamb	Iamb	03 58 54.8
Q17K	Contact Creek	27.05	322	P	P	03 58 45.1 -0.4
Q44A	Meyer Farm, Va	27.09	81	IAMS_20	IAMS_20	04 09 59.3
N20K	Mount Spurr	27.09	330	P	P	03 58 46.0 +0.2
SPCR	Spurr Chakacha	27.09	330	P	P	03 58 46.1 +0.3
EPYK	Eagle Plains	27.12	349	IAMS_20	IAMS_20	04 10 12.2
EPYK	Eagle Plains	27.12	349	Iamb	Iamb	03 58 54.4
EPYK	Eagle Plains	27.12	349	P	P	03 58 46.3 +0.4
H43A	Windswept, Lux	27.14	69	Iamb	Iamb	03 58 51.8
H43A	Windswept, Lux	27.14	69	IAMS_20	IAMS_20	04 09 53.3
PARMO	Parma	27.15	86	Iamb	Iamb	03 58 56.4
CUT	Chullina	27.17	333	P	P	03 58 46.6 +0.2
H29M	Whitestone	27.24	348	IAMS_20	IAMS_20	04 10 16.2
H29M	Whitestone	27.24	348	P	P	03 58 47.3 +0.3
PVMO	Portageville	27.27	387	IAMS_20	IAMS_20	04 09 11.2
L44A	Lake County Fo	27.28	74	Iamb	Iamb	03 58 57.6
L44A	Lake County Fo	27.28	74	IAMS_20	IAMS_20	04 10 43.2
I27K	Kandik River	27.29	344	P	P	03 58 47.7 +0.2
P18K	Big Mountain,	27.31	325	Iamb	Iamb	03 58 56.8
P18K	Big Mountain,	27.31	325	IAMS_20	IAMS_20	04 07 06.9
P18K	Big Mountain,	27.31	325	P	P	03 58 47.7 0.0
M44A	Midewin, Midsw	27.31	76	Iamb	Iamb	03 59 24.4
M44A	Midewin, Midsw	27.31	76	IAMS_20	IAMS_20	04 10 37.9
G31M	Satah River	27.33	351	Iamb	Iamb	03 58 56.0
G31M	Satah River	27.33	351	IAMS_20	IAMS_20	04 11 27.6
G31M	Satah River	27.33	351	P	P	03 58 47.6 -0.1
SKT	Skwentna	27.33	332	Iamb	Iamb	03 58 58.5
SKT	Skwentna	27.33	332	IAMS_20	IAMS_20	04 07 14.5
SKT	Skwentna	27.33	332	P	P	03 58 47.9 0.0
J25K	Salcha River	27.34	340	Iamb	Iamb	03 58 57.3
J25K	Salcha River	27.34	340	P	P	03 58 49.2 +1.3
O19K	Port Alsworth	27.34	327	Iamb	Iamb	03 58 57.5
O19K	Port Alsworth	27.34	327	P	P	03 58 48.3 +0.3
143A	Soos Landing	27.35	95	IAMS_20	IAMS_20	04 09 27.6
I26K	Coal Creek Min	27.37	343	P	P	03 58 48.7 +0.6
HQIL	Hanson Quary C	27.38	75	IAMS_20	IAMS_20	04 10 47.8
RND	Reindeer	27.41	336	Iamb	Iamb	03 59 20.0
HDBT	Hernando Brdge	27.42	90	IAMS_20	IAMS_20	04 10 19.3
MET	Memphis-Engin	27.52	90	IAMS_20	IAMS_20	04 10 21.1
O18K	Koktuh Hills	27.54	326	IAMS_20	IAMS_20	04 07 34.0
O18K	Koktuh Hills	27.54	326	P	P	03 58 49.8 +0.1
HDA	Harding Lake	27.60	339	P	P	03 58 50.0 -0.2
CNBA	Chernabura Isl	27.62	314	P	P	03 58 51.0 +0.5
CNBA	Chernabura Isl	27.62	314	Iamb	Iamb	03 58 60.0
CHNA	Chernabura Isl	27.62	314	P	P	03 58 52.1 +1.6
CHNA	Chernabura Isl	27.62	314	P	P	03 58 50.6 +0.2
G30M	tAoh Zraii Njii	27.62	350	IAMS_20	IAMS_20	04 09 17.5
G30M	tAoh Zraii Njii	27.62	350	P	P	03 58 51.0 +0.6
MCK	McKinley	27.67	336	Iamb	Iamb	03 59 00.1
MCK	McKinley	27.67	336	IAMS_20	IAMS_20	04 11 42.6
MCK	McKinley	27.67	336	P	P	03 58 51.4 +0.5
HALLS	Halls	27.71	88	IAMS_20	IAMS_20	04 09 35.9
P17K	Kvichak River	27.75	324	P	P	03 58 51.3 -0.2
N19K	Bonanza Creek	27.76	328	Iamb	Iamb	03 59 01.1
N19K	Bonanza Creek	27.76	328	IAMS_20	IAMS_20	04 07 59.8
N19K	Bonanza Creek	27.76	328	P	P	03 58 52.1 +0.3
F31M	Tsigichtchic	27.77	352	P	P	03 58 52.0 +0.4
G29M	Pine Creek	27.82	348	Iamb	Iamb	03 59 00.6
G29M	Pine Creek	27.82	348	IAMS_20	IAMS_20	04 10 33.6
G29M	Pine Creek	27.82	348	P	P	03 58 52.6 +0.4
H27K	Steamboat Moun	27.82	345	Iamb	Iamb	03 59 01.2
H27K	Steamboat Moun	27.82	345	P	P	03 58 53.1 +0.9
M20K	Styx River	27.86	331	Iamb	Iamb	03 59 02.3
M20K	Styx River	27.86	331	IAMS_20	IAMS_20	04 07 29.9
M20K	Styx River	27.86	331	P	P	03 58 53.1 +0.4
ILAR	Eielson Array	27.86	339	P	P	03 58 53.3 +0.8
ILAR	Eielson Array	27.86	339	P	P	03 58 53.1 +0.5
ILAR	Eielson Array	27.86	339	PcP	PcP	04 02 09.0 +1.1
ILAR	Eielson Array	27.86	339	LR	LR	04 08 47.8
T45A	Paduach	27.89	85	Iamb	Iamb	03 59 31.7
TRF	Thorofare Moun	27.89	335	Iamb	Iamb	03 59 02.2
TRF	Thorofare Moun	27.89	335	P	P	03 58 53.3 +0.2
S14K	Fog Glacier	28.07	317	P	P	03 58 54.1 -0.5
PRP	Porcupine Dome	28.11	341	P	P	03 58 55.1 +0.2

OXF	Oxford	28.15	91	IAMS_20	IAMS_20	04 10 50.7
PPLA	Purkeypile	28.16	333	IAMS_20	IAMS_20	04 07 43.4
PPLA	Purkeypile	28.16	333	P	P	03 58 55.7 +0.3
F30M	Barrier River	28.16	351	Iamb	Iamb	03 59 10.3
F30M	Barrier River	28.16	351	IAMS_20	IAMS_20	04 10 53.8
F30M	Barrier River	28.16	351	P	P	03 58 54.6 -0.6
SFIN	Lafayette	28.20	77	Iamb	Iamb	03 59 06.6
SFIN	Lafayette	28.20	77	IAMS_20	IAMS_20	04 11 04.6
COLA	College	28.21	339	P	P	03 58 59.3 +3.7
COLA	College	28.21	339	P	P	03 58 55.0 -0.6
COLA	College	28.21	339	pmax	pmax	
COLA	College	28.21	339	P	P	03 58 56.0 +0.4
N18K	Kilae Creek	28.26	327	Iamb	Iamb	03 58 55.0 -0.2
N18K	Kilae Creek	28.26	327	P	P	03 58 56.0 -0.2
SDPT	Sand Point	28.26	315	P	P	03 58 55.2 -1.0
I45A	Fountain	28.28	70	IAMS_20	IAMS_20	04 10 29.4
POKR	Poker Plat Res	28.28	339	Iamb	Iamb	03 59 05.5
POKR	Poker Plat Res	28.28	339	P	P	03 58 56.8 +0.5
Y45A	Yeager Farm, C	28.29	92	IAMS_20	IAMS_20	04 12 16.5
O17K	Koiganek Bris	28.32	325	P	P	03 58 57.1 +0.5
NEA2	Nenana	28.34	338	Iamb	Iamb	03 59 05.1
NEA2	Nenana	28.34	338	P	P	03 58 57.3 +0.4
M19K	Big River Lodg	28.35	330	Iamb	Iamb	03 59 06.9
M19K	Big River Lodg	28.35	330	IAMS_20	IAMS_20	04 07 46.4
M19K	Big River Lodg	28.35	330	P	P	03 58 57.4 +0.5
G27K	Doyon Strip	28.36	346	Iamb	Iamb	03 59 06.0
G27K	Doyon Strip	28.36	346	IAMS_20	IAMS_20	04 09 07.5
G27K	Doyon Strip	28.36	346	P	P	03 58 57.5 +0.5
USIN	University of	28.36	83	Iamb	Iamb	03 59 07.2
USIN	University of	28.36	83	IAMS_20	IAMS_20	04 10 46.9
P16K	Nushagak River	28.38	323	IAMS_20	IAMS_20	04 07 59.2
P16K	Nushagak River	28.38	323	P	P	03 58 57.2 0.0
CAST	Castle Rocks	28.47	334	Iamb	Iamb	03 59 06.9
CAST	Castle Rocks	28.47	334	P	P	03 58 58.4 +0.4
L46A	Eue Claire	28.50	74	Iamb	Iamb	03 59 08.5
L46A	Eue Claire	28.50	74	IAMS_20	IAMS_20	04 11 29.3
L20K	Forewell, Ak	28.50	331	P	P	03 58 58.5 +0.2
BPAW	Bear Paw Mtn.	28.57	336	P	P	03 58 59.3 +0.4
INK	Inuvik	28.59	353	Iamb	Iamb	03 59 10.5
INK	Inuvik	28.59	353	LR	LR	04 11 37.9
INK	Inuvik	28.59	353	P	P	03 58 59.2 +0.3
M18K	Stony River	28.67	328	P	P	03 58 59.9 +0.1
O16K	Kokkwo River B	28.68	324	IAMS_20	IAMS_20	04 08 10.2
O16K	Kokkwo River B	28.68	324	P	P	03 58 59.5 -0.3
L19K	White Mountain	28.69	330	Iamb	Iamb	03 59 09.8
L19K	White Mountain	28.69	330	IAMS_20	IAMS_20	04 07 57.4
L19K	White Mountain	28.69	330	P	P	03 59 00.7 +0.7
N17K	Nushagak Hills	28.73	326	Iamb	Iamb	03 59 10.2
N17K	Nushagak Hills	28.73	326	IAMS_20	IAMS_20	04 08 21.5
N17K	Nushagak Hills	28.73	326	P	P	03 59 01.0 +0.7
F28M	Old Crow	28.76	348	P	P	03 59 00.2 -0.3
H25L	Birch Creek	28.79	342	P	P	03 59 01.6 +0.9
WVT	Waverly	28.79	86	P	P	03 58 58.1 -3.0
WVT	Waverly	28.79	86	pmax	pmax	03 58 58.1 -3.0
WVT	Waverly	28.79	86	MLR	MLR	
I23K	Minto, Yukon-K	28.84	338	Iamb	Iamb	03 59 10.6
I23K	Minto, Yukon-K	28.84	338	P	P	03 59 01.2 0.0
CHUM	Chum Lake	28.85	334	P	P	03 59 01.7 +0.3
G26K	Porcupine River	28.90	344	P	P	03 59 02.5 +0.7
BLO	Bloomington	28.91	80	Iamb	Iamb	03 59 12.0
BLO	Bloomington	28.91	80	IAMS_20	IAMS_20	04 12 07.3
H24K	Noodor Dome	28.96	340	Iamb	Iamb	03 59 11.6
H24K	Noodor Dome	28.96	340	P	P	03 59 03.1 +0.8
PLAL	Pickwick Lake	29.00	89	Iamb	Iamb	03 59 13.8
T47A	Sharon Grove	29.07	84	IAMS_20	IAMS_20	04 09 49.8
K20K	Telida	29.11	333	P	P	03 59 04.6 +0.9
MLY	Manley	29.15	337	Iamb	Iamb	03 59 13.3
MLY	Manley	29.15	337	P	P	03 59 04.6 +0.5
E29M	Blow River	29.17	94	IAMS_20	IAMS_20	04 11 11.7
E29M	Blow River	29.17	94	Iamb	Iamb	03 59 12.7
E29M	Blow River	29.17	94	IAMS_20	IAMS_20	04 12 00.4
C36M	Paulatuk	29.18	0	IAMS_20	IAMS_20	04 12 21.9
C36M	Paulatuk	29.18	0	P	P	03 59 04.7 +0.5
BLKN	Baker Lake	29.20	25	P	P	03 59 03.5 -0.9
S12K	Black Hills					

Table with columns: ID, Name, Comp, Az, El, Dist, Az, El, Dist, Az, El, Dist, Az, El, Dist. Rows include K50A Casco, E23K Chandalar, E23K Chandalar, L15K Ungalak Mounta, C27K Jago River, C27K Jago River, H19K Roundabout 18, AC50 Alum Creek Sta, Q51A Peablies, BRAL Brewton, V52A John River, UNV Unalaska Valle, UNV Unalaska Valle, K15K Wolf Creek Mout, K15K Wolf Creek Mout, M13K Dall Lake, P51A Williamsport, P51A Williamsport, D25K Kavik River, D25K Kavik River, L14K Kukka Creek, L14K Kukka Creek, F21K Alatina River, F21K Alatina River, J16K Anvik River, J16K Anvik River, S51A Beattyville, CPCT Cooper Cave, TOLK Toolik Lake Re, 250A Grady, N51A Ashland, X51A Calhoun, TLIG Tlaga, C26K Camden Bay, H18K Honhosa River, E22K Anaktuk Pass, D44K Happy Valley, D24K Happy Valley, A36M Sachs Harbour, A36M Sachs Harbour, I17K Unalakleet, I17K Unalakleet, H17K Granite Mounta, H17K Granite Mounta, W52A Murphy, Q52A Bidwell, Q52A Bidwell, O52A Adamsville, M52A Chesterland, G18K Tagagawik, G18K Tagagawik, C24K Franklin Bluff, C24K Franklin Bluff, J14K Nanvaranak Lak, J14K Nanvaranak Lak, 152A Waverly Hall, D22K Ayiyak River, Y52A Liburn, E21K Killik River, E21K Killik River, F19K Shaleruckik Mo, F19K Shaleruckik Mo, 451A Vernon, K13K Kusilvak Mount

Table with columns: ID, Name, Comp, Az, El, Dist, Az, El, Dist, Az, El, Dist, Az, El, Dist. Rows include O53A New Philadelph, NIKH Nikolski High, NIKH Nikolski High, P53A Whipple, G17K Kivalik Mouna, C23K Itkillik River, C23K Itkillik River, E19K Redone River, M11K Mekoryuk, N53A Lisbon, N53A Lisbon, V53A Saluda, V53A Saluda, H16K Elim, 352A Blakely, 352A Blakely, BG3 Lak Jocassee, E20K Nigu River, F18K Selawik, BUKO Buck Lake, ALLY Alegheny Colle, ERPA Erie, GOGA Godfrey, C21K Knifefield Rid, S54A Dingess, Beckl, S54A Dingess, Beckl, O54A Cox Mills, G16K Koyuk River, G16K Koyuk River, SADO Sadowa, SADO Sadowa, O54A Avella, D20K Etluvik River, D20K Etluvik River, D20K Etluvik River, F17K Baldwin Pennin, HLK Haleakala, KHLH Kahului Airpor, B21K Ikpikpuk River, B21K Ikpikpuk River, P08K Saint George I, JOKA Jonika Flow, POHA Pohakuloa, D19K Kuna River, D19K Kuna River, G15K Niukuk, HATHI Halema'uma'u T, PUH Puaehi, UWE Uwekahuna, HODGE Hodges, 154A Alton, MLH Mauna Loa, B22K Teshepuk Lake, B22K Teshepuk Lake, E18K Tukpahleirik C, E18K Tukpahleirik C, MCWV Mont Chateau, 553A Crawfordflow, HLP Hilina Pali, PAULI Paulina, PAULI Paulina, TIGA Titton, AIN Ainahou, MWH Mokuaweweo, HUH Hualalai, V55A Taylorsville, E17K Hotham Inlet, R55A Marlinton, R55A Marlinton, ANM Nome, SP1A Saint Paul Isl, SP1A Saint Paul Isl, VLDO Val d'O, WVN West Valley, KHU Kahuku, KHU Kahuku, BLS Blackburg, KM5C Kings Mountain, KM5C Kings Mountain, F15K North Star Dit, F15K North Star Dit, KIP Kipapa, HON Honolulu, CMIG Matias Romero

Table with columns: ID, Name, Comp, Az, El, Dist, Az, El, Dist, Az, El, Dist, Az, El, Dist. Rows include DELO Deloro Mine, B20K Meade River, Q56A Snyder Ridge, C19K Lookout Ridge, C19K Lookout Ridge, MMNY Mt. Morris Dam, A22K Sinclair Lake, C18K Utukok River, C18K Utukok River, D17K Noatak River, F14K Arctic Creek, RDOG Red Dog Mine, L56A Greenwood, PECO Prince Edward, BIRD Birdtown, Kers, SSPA Standing Stone, S57A Dark Hollow, R, S57A Dark Hollow, R, T57A Hurt, KEKH Kekaha, C17K Delong Mountai, A21K Barrow, B18K Kokik River, TNA Tin City, TNA Tin City, 456A Hilliard, K57A Scipio Center, V58A Windy Hill, Pi, V58A Windy Hill, Pi, A19K Wainwright, 257A Skidaway Island, 656A Wilston, C16K Lisburne Hills, R58B Mineral, NHSC New Hope, N58A Sunbury, X58A Rowland, X58A Rowland, ATKA Atka Island, CSU Charleston Sou, WBO Williamsburg, WBO Williamsburg, BINY Binghamton, CBN Corbin Frederi, CBN Corbin Frederi, SDMD Soldier's Deli, GAMB Gamb, MVL Millersville, W59A Clinton, T59A Double 'B', T59A Double 'B', TEIG Tepich, TEIG Tepich, L59A Walton, CCIG Comitana, ILON Igloolik, Nuna, J59A Plesco, J59A Plesco, MNTQ Montreal, Queb, DWPF Disney Wildern, DWPF Disney Wildern, RES Resolute Bay, FRNY Flat Rock, ACCN Adirondack Com, V61A Roper, S61A Accomac, TRY Troy, R61A Willards, PETF Flores, HUEH Huehuetenango, VT1 Waterbury, J61A West Valley, LDAO Lac Daran, RTAL Retailer, LBNH Lisbon, LBNH Lisbon, 061Z Ochoppi, UCCT Connecticut, SOR Soro, LMQ La Marga, H62A Milan, I62A Tamworth

I62A	comp=Z,7um,21.0s	IAMS_20	IAMS_20	04 16 28.5
G62A	West of Eustis comp=Z,97nm,1.3s	39.17	64	Iamb Iamb 04 00 31.8
WES	Weston comp=Z,8um,21.0s	39.28	69	IAMS_20 IAMS_20 04 17 17.7
I63A	Otisfield comp=Z,6um,20.0s	39.39	66	IAMS_20 IAMS_20 04 16 32.4
E62A	Clayton Lake comp=Z,93nm,1.0s	39.57	62	Iamb Iamb 04 00 42.6
ESQJ	Esquipulas comp=Z,5um,18.0s	39.77	120	IAMS_20 IAMS_20 04 19 13.1
D62A	Allappit, All comp=Z,8um,21.0s	39.80	61	IAMS_20 IAMS_20 04 16 49.0
FRB	Frisher Bay comp=Z,6um,21.6s,baz=264,slow=38	39.82	35	LR LR 04 17 47.2
MTC3	Montecristo comp=Z,6um,18.0s	39.87	120	IAMS_20 IAMS_20 04 19 06.7
CAM0	Camarcara comp=Z,6um,18.0s	39.89	102	IAMS_20 IAMS_20 04 20 05.9
M65A	Busby, Falmout comp=Z,6um,18.0s	39.99	70	P P 04 00 37.6 -0.2
SCHO	Schefferville comp=Z,70nm,1.0s,baz=278,slow=7.3,SNR=25	40.25	49	P P 04 00 38.8 -1.0
SCHO	comp=Z,9um,18.1s,baz=278,slow=37			LR LR 04 17 34.9
F64A	Sherman comp=Z,70nm,1.0s	40.52	63	P P 04 00 41.5 -0.6
F64A	comp=Z,84nm,1.3s			Iamb Iamb 04 00 43.0
G65A	Princeton comp=Z,148nm,1.4s	41.22	64	Iamb Iamb 04 00 49.0
EMMW	East Machias comp=Z,135nm,1.4s	41.41	64	Iamb Iamb 04 00 50.4
TGUH	Tequicigalpa,Un comp=Z,1um,20.0s	41.51	118	IAMS_20 IAMS_20 04 19 04.3
GGN	Saint George comp=Z,120nm,1.3s	41.73	64	Iamb Iamb 04 00 53.0
BATG	Bathurst New B comp=Z,111nm,1.1s	41.76	60	Iamb Iamb 04 00 52.9
CRIN	San Cristobal comp=Z,4um,18.0s	42.64	119	IAMS_20 IAMS_20 04 21 04.8
HERN	Volcan Telica comp=Z,4um,21.0s	42.85	119	IAMS_20 IAMS_20 04 19 46.8
LMN	Caledonia Moun comp=Z,6um,21.0s	42.93	62	P P 04 01 01.7 -0.2
LMN	comp=Z,6um,21.0s			IAMS_20 IAMS_20 04 18 49.9
HAL	Halifax comp=Z,100nm,1.2s	44.09	63	Iamb Iamb 04 01 12.3
ACON	Acopyca comp=Z,4um,22.0s	44.42	118	IAMS_20 IAMS_20 04 20 44.6
MIDW	Midway comp=Z,3um,18.0s	44.92	272	IAMS_20 IAMS_20 04 16 25.2
BLUN	Bluefields comp=Z,1um,comp=Z,34nm,1.2s	45.35	117	P P 04 01 23.0 +1.5
CHIV	Chivirico comp=Z,314nm,1.7s	45.42	102	Iamb Iamb 04 01 24.7
CHIV	comp=Z,5um,19.0s			IAMS_20 IAMS_20 04 22 21.5
MTDJ	Mount Denham comp=Z,4um,22.0s	45.66	105	IAMS_20 IAMS_20 04 21 08.9
JTS	Las Juntas de comp=Z,4um,22.0s	45.79	120	P P 04 01 24.7 -0.4
JTS	Las Juntas de comp=Z,3um,19.0s	45.79	120	IAMS_20 IAMS_20 04 23 59.8
JTS	Las Juntas de comp=Z,4um,21.5s,baz=313,slow=38	45.79	120	LR LR 04 22 18.7
JTS	Las Juntas de comp=Z,3um,19.0s			P P 04 01 24.7 -0.4
JTS	comp=Z,34nm,1.2s			MLR MLR
BILL	Bilibino comp=Z,3um,19.0s	45.81	331	P P 04 01 24.7 +0.1
BILL	comp=Z,62nm,1.4s			Iamb Iamb 04 01 33.9
BILL	comp=Z,5um,18.0s			IAMS_20 IAMS_20 04 19 37.2
BILL	Bilibino comp=Z,5um,18.0s	45.81	331	ceP P 04 01 25.1 +0.5
NMDO	Nuevo Mundo comp=Z,59nm,2.5s	46.15	100	Iamb Iamb 04 01 35.4
NMDO	comp=Z,77nm,1.0s			IAMS_20 IAMS_20 04 22 40.8
GTBY	Guantanamo Bay comp=Z,6um,18.0s	46.43	101	IAMS_20 IAMS_20 04 22 17.2
HDC	Heredia comp=Z,4um,20.0s	46.56	119	IAMS_20 IAMS_20 04 23 58.2
LCR2	La Lucha 2 comp=Z,3um,19.0s	46.83	119	IAMS_20 IAMS_20 04 24 08.2
ILULI	Ilulissat comp=Z,57nm,1.2s	47.14	28	Iamb Iamb 04 01 42.6
ILULI	Ilulissat comp=Z,6.5nm,0.6s	47.14	28	i P P 04 01 33.6 -1.4
ILULI	comp=Z,6.5nm,0.6s			Iamb Iamb 04 01 35.1
SFJD	Kangerlussuaq comp=Z,4um,20.0s	47.44	31	P P 04 01 37.6 +0.2
SFJD	Kangerlussuaq comp=Z,1um,18.5s,baz=278,slow=39	47.44	31	LR LR 04 23 28.3
SFJD	Kangerlussuaq comp=Z,4um,21.0s	47.44	31	P P 04 01 37.6 +0.2
SFJD	comp=Z,89nm,1.1s			MLR MLR
SFJD	Kangerlussuaq comp=Z,2.1nm,1.0s	47.44	31	P P 04 01 36.7 -0.6
SFJD	comp=Z,2.1nm,1.0s			Iamb Iamb 04 01 38.9
NEEM	North Greenland comp=Z,1.8nm,1.3s	47.45	17	i P P 04 01 37.9 +0.2
NEEM	comp=Z,1.8nm,1.3s			Iamb Iamb 04 01 40.7
BBSR	BB Station comp=Z,3um,18.0s	47.85	80	P P 04 01 40.3 -0.7
BBSR	BB Station comp=Z,3um,18.0s	47.85	80	IAMS_20 IAMS_20 04 22 51.9
BRU2	Volcan comp=Z,2um,18.0s	48.40	119	IAMS_20 IAMS_20 04 23 55.9
XMAS	Kiritimati comp=Z,3um,19.0s	48.47	227	IAMS_20 IAMS_20 04 16 28.9
GRTK	Grand Turk comp=Z,4um,20.0s	48.52	96	IAMS_20 IAMS_20 04 23 12.3
IVI	Ivigtut comp=Z,66nm,1.2s	49.30	38	Iamb Iamb 04 02 08.8
IVI	Ivigtut comp=Z,1.1nm,0.7s	49.30	38	i P P 04 01 52.5 +0.7
IVI	comp=Z,1.1nm,0.7s			Iamb Iamb 04 01 52.9
SDDR	Pres de Saban comp=Z,61nm,1.0s	49.88	99	Iamb Iamb 04 02 07.3
SDDR	comp=Z,3um,20.0s			IAMS_20 IAMS_20 04 24 08.5
BCIP	Isla Barro Col comp=Z,2um,19.0s	50.07	116	IAMS_20 IAMS_20 04 24 45.1
GMAL	Guarumal, Vera comp=Z,26nm,1.3s	50.13	118	P P 04 01 59.7 +1.0
CACAO	El Cacao, Vera comp=Z,0.7nm,2.9s	50.68	118	P P 04 02 03.6 +0.8
SUMG	Summit comp=Z,83nm,1.1s	50.93	23	P P 04 02 03.9 -0.5
SUMG	Summit comp=Z,83nm,1.1s	50.93	23	P P 04 02 03.9 -0.5
SUMG	comp=Z,83nm,1.1s			MLR MLR
SUMG	Summit comp=Z,7um,18.0s	50.93	23	i P P 04 02 04.7 +0.2
SUMG	comp=Z,7um,18.0s			Iamb Iamb 04 02 05.5
TAOE	Nuku Hiva Isla comp=Z,363nm,25.6s	51.00	200	eS S 04 09 21.0 -0.5
TAOE	comp=Z,4um,22.2s			eLQ LQ 04 14 16.2
TAOE	comp=Z,876nm,21.3s			eLR LR 04 16 29.8
ICESG	Greenland Ices comp=Z,66nm,1.2s	51.22	27	i P P 04 02 07.1 +0.4
ICESG	comp=Z,66nm,1.2s			Iamb Iamb 04 02 09.4
PET	Petropavlovsk comp=Z,200nm,7.2s	51.98	312	eP S 04 02 12.2 +0.1
PET	comp=Z,200nm,7.2s			MLR MLR 04 09 28.5 -5.7
PET	comp=Z,500nm,6.4s			MLR MLR
PET	comp=Z,70nm,1.2s			MLR MLR
PET	comp=Z,800nm,15.0s			MLR MLR
SEY	Seymchan comp=Z,1um,13.0s	52.23	325	LR LR 04 23 11.6
SEY	Seymchan comp=Z,4um,18.2s,baz=82,slow=35	52.23	325	ceP P 04 02 14.4 +0.6
SEY	comp=Z,60nm,2.5s			MLR MLR

PEA0B	Petropavlovsk-52.50 312	P	P	04 02 16.2 +0.2
PEA0B	Petropavlovsk-52.50 312	P	P	04 02 16.2 +0.2
PEA0B	comp=Z,110nm,1.3s			MLR MLR
PETK	Petropavlovsk-52.50 312	P	P	04 02 16.1 +0.1
PETK	Petropavlovsk-52.50 312	P	P	04 02 15.9 0.0
PETK	comp=Z,25nm,1.0s,baz=74,slow=12,SNR=49	52.50	312	LR LR 04 21 05.7
PETK	comp=Z,706nm,20.7s,baz=76,slow=32			MLR LR
PETK	comp=Z,55nm,1.0s			IAMS_20 IAMS_20 04 21 05.7
PETK	Petropavlovsk-52.50 312	P	P	04 02 16.1 +0.1
SJCC	San Jacinto, C 52.84 111	P	P	04 02 20.5 +1.5
ANGA	Ammassalik, Gr 52.84 31	IAMS_20	IAMS_20	04 27 27.9
APAC	Apartado, Choc 53.23 114	P	P	04 02 23.9 +2.1
CRPR	Cabo Rojo, PR 53.63 97	IAMS_20	IAMS_20	04 24 38.6
OBIP	Obispado Ponce comp=Z,3um,20.0s	53.99	97	IAMS_20 IAMS_20 04 29 04.1
CELP	Cerrillos comp=Z,2um,20.0s	53.99	96	IAMS_20 IAMS_20 04 29 05.2
MA2	Magadan 54.00 321	P	P	04 02 27.8 +0.9
MA2	comp=Z,50nm,1.3s			Iamb Iamb 04 02 36.9
MA2	comp=Z,4um,19.0s			IAMS_20 IAMS_20 04 24 26.7
MA2	Magadan 54.00 321	LR	LR	04 24 37.7
MA2	Magadan 54.00 321	P	P	04 02 28.6 +1.7
MA2	Magadan 54.00 321	ceP	ceP	04 02 28.6 +1.7
UREC	San Jos de Ur 54.07 113	P	P	04 02 28.1 +0.1
DBBC	Dabeiba 54.11 114	P	P	04 02 29.8 +1.4
GCPR	Guayabo City 54.23 96	IAMS_20	IAMS_20	04 25 37.4
SKR	Severo-Kuril's 54.27 310	i P	i P	04 02 29.5 +0.5
SKR	comp=Z,63nm,1.1s			eS S 04 10 06.7 +1.3
SKR	comp=Z,63nm,1.1s			MLR MLR
SKR	comp=Z,800nm,17.0s			MLR MLR
SJG	San Juan 54.30 96	P	P	04 02 29.6 0.0
SJG	San Juan 54.30 96	IAMS_20	IAMS_20	04 26 18.3
SJG	comp=Z,3um,20.0s			LR LR 04 28 18.0
SJG	San Juan 54.30 96	P	P	04 02 29.6 0.0
SJG	comp=Z,98nm,1.0s			MLR MLR
SJG	comp=Z,3um,20.0s			MLR MLR
SJG	San Juan 54.30 96	P	P	04 02 30.1 +0.5
SOEG	Soedalen 54.38 27	i P	i P	04 02 30.1 +0.6
SOEG	comp=Z,21nm,1.2s			Iamb Iamb 04 02 31.5
IGPR	InterUniversit comp=Z,3um,20.0s	54.42	96	IAMS_20 IAMS_20 04 27 55.4
PDPR	Pattilas Dam, comp=Z,3um,19.0s	54.45	96	IAMS_20 IAMS_20 04 27 56.3
HUMP	Col San Antoni comp=Z,3um,19.0s	54.51	96	IAMS_20 IAMS_20 04 28 12.8
DAG	Danmarks Havn 54.65 16	i P	i P	04 02 33.1 +1.7
DAG	comp=Z,26nm,0.9s			Iamb Iamb 04 02 38.0
CBOC	Ciudad Bolivar 55.07 115	P	P	04 02 36.8 +1.4
PLMC	San Jos del P 55.57 116	P	P	04 02 39.8 +0.9
PTBC	Puerto Berrio, 55.68 113	P	P	04 02 40.7 +1.0
GU2C	Guayana, Caldas 55.97 115	P	P	04 02 43.8 +1.5
YOTO	Yotoco, Valle 56.19 117	P	P	04 02 44.6 +1.1
PAMC	Pampolona, Colo 56.37 111	P	P	04 02 46.0 +0.9
JAMC	Jamundi, Valle 56.53 118	P	P	04 02 47.2 +1.2
SMRT	Barichara 56.54 112	P	P	04 02 47.7 +1.6
BARC	San Maarten 56.68 94	IAMS_20	IAMS_20	04 26 09.2
SDV	Santo Domingo 56.80 108	P	P	04 02 48.4 +0.5
SDV	comp=Z,60nm,0.9s			Iamb Iamb 04 02 51.1
SDV	comp=Z,2um,20.0s			IAMS_20 IAMS_20 04 29 21.2
SDV	Santo Domingo 56.80 108	LR	LR	04 29 51.7
SDV	comp=Z,2um,20.0s,baz=300,slow=39			LR LR 04 29 51.7
SDV	Santo Domingo 56.80 108	eP	eP	04 02 48.7 +0.8
SDV	Santo Domingo 56.80 108	P	P	04 02 48.7 +0.8
SABA	Saba 56.81 95	IAMS_20	IAMS_20	04 28 13.6
ROSC	El Rosal 56.97 115	P	P	04 02 47.5 -1.8
ROSC	comp=Z,8.3nm,0.3s,baz=35,slow=3.3,SNR=18			LR LR 04 30 20.7
ROSC	comp=Z,2um,20.0s,baz=336,slow=39			LR LR 04 30 20.7
ROSC	comp=Z,8.3nm,0.3s			LR LR 04 30 20.7
ORTC	Ortega, Tolima 57.00 116	P	P	04 02 50.0 +0.9
POPC	Popayan, Colom 57.02 118	P	P	04 02 50.3 +0.8
SEUS	St. Eustatius 57.08 95	IAMS_20	IAMS_20	04 28 21.9
RUSC	La Rusia 57.10 113	P	P	04 02 51.8 +1.5
PACI	Pacto, Paraso 57.32 122	P	P	04 02 52.8 +1.3
TIXI	Tiksi 57.34 339	P	P	04 02 50.2 -0.4
TIXI	comp=Z,95nm,1.8s			Iamb Iamb 04 02 58.2
TIXI	comp=Z,3um,21.0s			IAMS_20 IAMS_20 04 27 49.3
TIXI	Tiksi 57.34 339	LR	LR	04 28 09.6
TIXI	comp=Z,3um,19.7s,baz=70,slow=37			MLR MLR
TIXI	Tiksi 57.34 339	ceP	ceP	04 02 51.4 +0.8
CVER	Cruz Verde, Cu 57.37 115	P	P	04 02 54.5 +2.3
CRUC	La Cruz 57.55 119	P	P	04 02 55.6 +2.2
OTAV	Otavalo 57.56 122	eP	eP	04 02 55.5 -1.1
OTAV	Otavalo 57.56 122	P	P	04 02 55.5 +2.0
TAMC	Tame, Arauca 57.64 111	P	P	04 02 55.1 +1.5
ANWB	Willy Bob 57.89 94	IAMS_20	IAMS_20	04 26 56.3
KBS	Kingsbay 58.38 9	P	P	04 02 58.2 +0.3
KBS	comp=Z,46nm,1.0s			Iamb Iamb 04 03 06.5
KBS	Kingsbay 58.38 9	i P	i P	04 03 01.0 +3.1
FLOC	Florencia 58.41 118	P	P	04 03 00.9 +1.9
PIAT	Ana Tenorio 58.62 123	P	P	04 03 03.0 +2.1
GDHS	Morre Mazeau, 58.74 95	IAMS_20	IAMS_20	04 30 12.7
ABE	Abasco, An 58.83 94	IAMS_20	IAMS_20	04 32 59.3
CBE	Ff. Capester comp=Z,3um,21.0s	58.99	95	IAMS_20 IAMS_20 04 30 18.4
TDBA	Terre de Bas, comp=Z,3um,20.0s	59.10	95	IAMS_20 IAMS_20 04 29 09.3
MACC	Macarena, Meta 59.23 116	P	P	04 03 05.3 +0.6
GDSD	La Dsraide LS 59.25 94	IAMS_20	IAMS_20	04 27 50.4
MAGL	Barre de l'ile comp=Z,3um,21.0s	59.31	95	IAMS_20 IAMS_20 04 30 37.9
BORG	Borgarnes 59.49 29	P	P	04 03 06.9 +1.1
BORG	comp=Z,30nm,0.9s			Iamb Iamb 04 03 12.2
BORG	Borgarnes 59.49 29	LR	LR	04 29 06.0
BORG	Borgarnes 59.49 29	ceP	ceP	04 03 06.9 +1.1
BORG	comp=Z,3um,20.0s			MLR MLR

BORG	comp=Z,30nm,1.0s			MLR MLR
SPITS	Spitsbergen Ar comp=Z,34nm,1.1s,baz=333,slow=1.3,SNR=17	59.51	9	P P 04 03 05.0 -0.7
SPITS	Spitsbergen Ar 59.51 9	P	P	04 03 05.6 -0.2
SPITS	comp=Z,95nm,1.2s			MLR MLR
GUVV	San Jose del G 59.78 115	P	P	04 03 08.9 +0.4
PTLC	Puerto Leguiza 60.02 119	P	P	04 03 13.4 +3.2
SVN	Savane Anatole comp=Z,1um,comp=Z,68nm,1.6s			









Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PB03, IPOC Station P, PB16, etc.

JMA 23 04:52:14.6, 0.2, 24°N, 1°E, 122.4E, 0.4, h7km, 2km, MV2, 8/12, TAIWAN REGION

TAP 23 04:52:14.4, 1.2, 24.57N, 0.03, 122.40E, 0.03, h70km, 6km, n152, s1818/288, Taiwan region

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists numerous stations including E0S2, E0S3, E0S4, etc.

Main station list table (continued) with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists stations like NJD, IRIF, WARB, etc.

Main station list table (continued) with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists stations like KNMB, AXDP, ZPLA, etc.

SDD 23 04:56:39.9, 1.0, 19°28'N, 68°37'W, h19km, 69km, MD3,2, ML2, 1, MV2, 3

RSPR 23 04:56:39.2, 19°28'N, 68°50'W, h83km, 3km, MD2, 8/16, NEIC 23 04:56:40.6, 1.6, 19°2'N, 0.1, 68°55'W, 0.04, h35km, 2km, ML2, 4/16, MD2, 8/16(RSPR), Error ellipse: s-maj=22.0km

ISC 23 04:55:39.8, 1.6, 19°08'N, 0°08.68'W, 0.04, h12km, 11km, n56, s1818/60, 15C-2D, North Atlantic Ocean

Code Station Name Az Phase ID Time Res. Includes stations like HIDR Higuay Centro, HIDR Higuay Centro, etc.

Code Station Name Az Phase ID Time Res. Includes stations like SMDR Samana, DR, SMDR Samana, DR, etc.

Code Station Name Az Phase ID Time Res. Includes stations like IDE Isla Desecho, IDE Isla Desecho, etc.

Code Station Name Az Phase ID Time Res. Includes stations like LSP Las Mesas, LSP Las Mesas, etc.

Code Station Name Az Phase ID Time Res. Includes stations like CRPR Cabo Rojo, PR, CRPR Cabo Rojo, PR, etc.

Code Station Name Az Phase ID Time Res. Includes stations like CRPR Cabo Rojo, PR, CRPR Cabo Rojo, PR, etc.

Code Station Name Az Phase ID Time Res. Includes stations like AOPR Arcibabo Observ, AOPR Arcibabo Observ, etc.

Code Station Name Az Phase ID Time Res. Includes stations like UUPR Utuado, UPR, P, UUPR Utuado, UPR, P, etc.

Code Station Name Az Phase ID Time Res. Includes stations like EMPR Esperanza - Ma, EMPR Esperanza - Ma, etc.

Code Station Name Az Phase ID Time Res. Includes stations like OBIP Obispado Ponce, OBIP Obispado Ponce, etc.

Code Station Name Az Phase ID Time Res. Includes stations like OBIP Obispado Ponce, OBIP Obispado Ponce, etc.

Code Station Name Az Phase ID Time Res. Includes stations like ECPR Experimental S, ECPR Experimental S, etc.

Code Station Name Az Phase ID Time Res. Includes stations like GPCR Guaynabo City, GPCR Guaynabo City, etc.

Code Station Name Az Phase ID Time Res. Includes stations like HUMP Col San Antoni, HUMP Col San Antoni, etc.

Code Station Name Az Phase ID Time Res. Includes stations like TMD Tamyd-Bulak, TMD Tamyd-Bulak, etc.

Code Station Name Az Phase ID Time Res. Includes stations like NUT Nurata, NUT Nurata, etc.

Code Station Name Az Phase ID Time Res. Includes stations like KK31 Kurota, KK31 Kurota, etc.

Code Station Name Az Phase ID Time Res. Includes stations like AB31 Aktyubinsk, AB31 Aktyubinsk, etc.

Code Station Name Az Phase ID Time Res. Includes stations like OTUK Otuk, OTUK Otuk, etc.

Code Station Name Az Phase ID Time Res. Includes stations like AKTO Aktyubinsk, AKTO Aktyubinsk, etc.

Code Station Name Az Phase ID Time Res. Includes stations like AKTO Aktyubinsk, AKTO Aktyubinsk, etc.

23d 5h

s-min=13.8km az=184.0, South of Alaska

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like WESE West Dahl East, AKUT Akutan, AHB Akutan Harbor, etc.

DNK 23 05:23:51.6z, 81.60N, 49.28W, h31km, 41km, ML1.8
OTT 23 05:23:52.4z, 1.7, 81.34N, 50.17W, h18km, ML3.2/3, 231km
southeast from Alert, N.

ISC 23 05:23:45.7z, 0.9, 81.47N, 0.08, 49.52W, 0.06, h10km, n8,
c381/13, Near north coast of Kalaallit Nunaat

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NEEM North Greenlan, NOR Nord, EUNU Eureka, etc.

IDC 23 05:23:54.3z, 3.1, 7.40S, 128.57E, h135km, 29km, mb3.5/9,
mbtmp4.1/13, Error ellipse: s-maj=36.5km s-min=14.0km
az=73.0

NEIC 23 05:23:55.2z, 1.8, 7.35S, 0.08, 128.48E, 0.05, h146km, 9km,
mb4.3/13, Error ellipse: s-maj=12.5km s-min=6.4km
az=204.0

ISC 23 05:23:55.6z, 0.5, 7.43S, 0.06, 128.46E, 0.05, h151km, n63,
c145/63, mb3.9/13, Banda Sea

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like SAUI Saumlaki, WBO Warramunga Arr, WRA Warramunga Arr, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NWAOW Narragin (SRO), HDT Hallett, EIDS Eidsvold, etc.

JMA 23 05:26:36.4z, 0.1, 24.1N, 122.4E, 0.4, h55km, 2km,
MV2.9/14, NW OFF ISHIGAKIJIMA IS
TAP 23 05:26:36.5z, 24.44N, 122.41E, h55km, ML3.6, 6
ISC 23 05:26:36.8z, 1.2, 24.43N, 0.02, 122.42E, 0.02, h54km, 5km,
n154, c1919/303, D1, Taiwan region

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like EOS2 EOS2, EOS3 EOS3, EOSA EOSA, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NTST TWT, TDCB Tech, WARBET Fenglin Townsh, etc.

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Table with columns: Code, Station Name, Az, Phase, ID, Op, ISC, Time, Res, h, m, s, ISC. Includes stations like NTST TWT, TDCB Tech, WARBET Fenglin Townsh, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include TSMG, MASBT, TSCK, etc.

Table with columns: RAHZ, ARAHI, WHZH, etc. Rows include ARAHI, WAHUA, NAUMAI, etc.

Table with columns: WB0, WBO, WBR, etc. Rows include WARRAMUNGA ARR, WARRAMUNGA ARR, etc.

GCG 23 05:31:01.3±1.8, 14°24'N:93°00'W, h24km±8km, MD4.2, ML3.7, MW3.3

CATAC 23 05:31:02.7±1.2, 14°14'N:93°31'W, h4km±4km, M3.6/7, MLV3.6/7, Error ellipse: s-maj=13.9km s-min=6.2km az=53.2, confirmed

MEX 23 05:31:02.7±0.8, 14°36'N:93°12'W, h26km±94km, MD4.2

ISC 23 05:30:58.3±1.5, 14°31'N:05°93'06'W±0.03, h17km±9km, n39, e225/64, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include THIG, THIG, THIG, etc.

Table with columns: SBA, VDA, GSPA, etc. Rows include SCOTT BASE, VANDE POLE QUI, SOUTH POLE QUI, etc.

Table with columns: VDA, VDA, SBA, etc. Rows include VANDA, VANDA, SCOTT BASE, etc.

STGO El Palmar, Qui 1.67 86 i P Pn 05 31 25.5 -1.4

STGO El Palmar, Qui 05 31 44.0 -4.1

HUEH Huehuetenango 1.81 56 e P 05 31 31.9 +0.8

HUEH Huehuetenango 05 31 54.4 +0.7

HUEH Huehuetenango 05 31 31.3 +0.1

HUEH Huehuetenango 05 31 55.6 -1.0

HUEH Huehuetenango 05 31 32.1 +1.0

CCIG Comitan 2.15 24 e P 05 31 37.6 +0.4

CCIG Comitan 05 32 04.9 +1.4

CCIG Comitan 05 31 34.2 -0.9

CCIG Comitan 05 32 05.3 -1.8

CCIG Comitan 05 32 10.5

CCIG Comitan 05 31 38.0 +1.0

CCIG Comitan 05 32 15.3 +1.5

TGIG Comitan 05 31 40.4 +2.7

TGIG Comitan 05 32 09.4 +2.1

TGIG Comitan 05 31 40.7 -1.3

TGIG Comitan 05 32 11.9 -0.2

TGIG Comitan 05 32 12.2

FG16 Atolengo, Sa 2.47 91 i P Pn 05 31 35.6 -2.5

FG16 Atolengo, Sa 05 32 02.1 -5.9

FG16 Atolengo, Sa 05 32 03.6

NUBE Las Nubes 3.21 97 i P Pn 05 31 51.0 +2.9

NUBE Las Nubes 05 32 28.6 +2.6

NUBE Las Nubes 05 31 49.9 +1.8

NUBE Las Nubes 05 32 26.0 0.0

HUIC Huatulco 3.28 297 e P Pn 05 31 50.5 +1.5

HUIC Huatulco 05 32 21.6 -6.1

CEVE Cerro Verde 3.27 98 e P Pn 05 31 52.1 +1.7

CEVE Cerro Verde 05 32 31.6 +1.5

JAYA Jayoque - fine 3.56 100 i P Pn 05 31 55.6 +2.5

JAYA Jayoque - fine 05 32 34.4 -0.5

JAYA Jayoque - fine 05 31 55.4 +2.4

PMON Piromonte 3.68 99 e P Pn 05 31 57.7 +3.1

PMON Piromonte 05 32 37.5 -0.3

PETF Flores 4.02 49 e P Pn 05 31 58.4 -0.7

PETF Flores 05 32 45.6 -0.4

YOIG Yosondua 5.01 301 e P Pn 05 32 18.1 +5.1

YOIG Yosondua 05 32 10.9 +0.2

PNIG Pinotepa 5.31 294 e S Pn 05 32 20.2 -3.4

PNIG Pinotepa 05 33 11.3 -6.4

TOIG Toxpalan 5.38 315 e S Pn 05 32 20.7 +2.7

TOIG Toxpalan 05 33 17.9 -1.7

TXIG Tlaxiaco 5.39 303 e P Pn 05 32 21.8 +3.3

TXIG Tlaxiaco 05 31 51.9 +1.7

HLIG Huajuap de L 5.75 308 e P Pn 05 32 23.1 0.0

ISC 23 05:53:58.2±1.6, 21°13'N:93°35'E, h72km±11km, mb3.6/13, mbmp3.9/15, MS3.5/1, Error ellipse: s-maj=35.5km s-min=9.7km az=37.0

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

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ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

ISC 23 05:53:56.0±1.1, 21°22'N:02°93'46'E±0.1, h45km±n17, e156/19, mb3.9/13, Myanmar

IDC 23 06:03:38.8±1.2, 14°64'N:92°39'W, h0km, mb4.1/11, mbmp4.1/13, ML4.1/2, MS3.2/9, Error ellipse: s-maj=40.1km s-min=18.1km az=41.0

NEIC 23 06:03:35.5±2.1, 14°28'N:03°92'97'W±0.03, h10km±1km, mb4.3/13, Md4.7/11(MEX), Error ellipse: s-maj=7.8km s-min=2.9km az=138.0

GCG 23 06:03:37.4±1.6, 14°28'N:92°93'W, h24km±7km, MD4.5, ML4.7

MEX 23 06:03:38.7±0.9, 14°57'N:93°20'W, h25km±46km, MD4.7

SNET 23 06:03:39.7±1.1, 14°32'N:92°77'W, h23km±6km, ML4.6

CATAC 23 06:03:40.5±0.6, 14°14'N:93°31'W, h13km±4km, M3.2/2, MLV4.8/22, Error ellipse: s-maj=10.4km s-min=6.7km az=130.9, Moment Tensor Solution: Moment tensor: Scale 10^15Nm; Mr0.26; Mw1.56; Mw1.30; Mw1.45; Mw1.74; Mw-1.89; Fault plane solution: M3.28468x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65; Mw-1.91; Fault plane solution: M3.25433x10^15 Np1.0±15.68262°; 888.75252°, A.133.40955°. NP2: 0±247.00102°; 843.42391°; A.181497°. Principal axes: T 2.8225, Plg31.9350°, Azm10.6138°; N 0.7828, Plg43.3967°, Azm334.5028°; P -3.6054, Plg29.8789°, Azm211.5977°; Moment Tensor Solution: Moment tensor: Scale 10^15 Nm; Mr0.37; Mw1.68; Mw1.30; Mw1.97; Mw1.65







Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ARCES ARCES Array B, MKAR Makanchi Array, ASAR Alice Springs.

Station information for IDC 23 06:52:05.7, 0.5, 31.03S; 177.41W, h0km, mb4.5/18, mtbpm4.5/18, MS4, 9/51, Error ellipse: s-maj=18.8km...

Station information for MOS 23 06:52:06.8, 1.0, 31.04S; 177.55W, h10km, mb5.2/18, Error ellipse: s-maj=13.2km, s-min=9.2km, az=111.5...

Station information for NEIC 23 06:52:08.4, 1.0, 30.96S; 0.09, 177.5W, h10km, 1km, mb5.1/105, Mw5.2/35, Error ellipse: s-maj=19.1km...

Station information for BUI 23 06:52:10.2, 30.54S; 176.62W, h42km, mb5.6/21, mb5.1/22, Ms5.2/23, Ms7.4/9/26...

Station information for GCMT 23 06:52:11.4, 0.1, 31.06S; 0.01, 176.96W, h12km, Mw5.3/136, Moment Tensor Solution...

Station information for NEIC 23 06:52:12.4, 31.15S; 176.69W, h14km, Moment Tensor Solution, Duration: 2x5 Moment tensor...

Station information for ISC 23 06:52:07.7, 0.3, 31.07S; 0.04, 177.50W, h0.06, h10km, n341, s169/291, mb5.1/86, MS5.0/67, 24C-13D, Kermadec Islands region...

Main table listing station codes (GLKZ, RAO, RAO, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values for various stations.

Table listing station codes (STKA, STKA, STKA, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (PMG, PMG, PMG, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (COEN, TAOE, AS31, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (ASAR, ASAR, ASAR, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (WRA, WRA, WRA, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (WRA, WRA, WRA, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

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Table listing station codes (WRA, WRA, WRA, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (SHEM, LPIG, SKR, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (SKR, SKR, SKR, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

Table listing station codes (SKR, SKR, SKR, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.

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Table listing station codes (SKR, SKR, SKR, etc.), station names, azimuths, phases, IDs, times, residuals, and ISC values.







23d 9h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like RAR Rarotonga, ASAR Alice Springs, WRA Warramunga Arr, AKASG Main Array B.

FCIAR 23 08:19:14.0, 78.95N:6.30E, h10km, station ZFI2 has station magnitude of 3.50

BER 23 08:19:15.3, 78.74N:5.36E, h17km, Mw3.5, ML2.8(N/A), Confirmed Earthquake
NAO 23 08:19:17.3, 1.1, 78.76N:6.46E, h15km, ML2.8
KOLA 23 08:19:19.4, 78.44N:7.80E, h0km, ML2.1, Error ellipse: s-maj=20.2km s-min=10.5km az=110.0, Greenland sea, Knipovich ridge, middle

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KBS Kingsbay, SPAO Spitsbergen Ar, HSPB Hornsund (broa), HOPEN Hopfen, DAG Danmarks Havn, ZFI2 Zemiya Franca-.

ASRS 23 08:41:13.5, 53.8N:0.8E:88.2E:0.8, h1km, 1km, MLh3.5/18, confirmed

NCC 23 08:41:17.4, 2.2, 53.64N:87.97E, h0km, mb3.9, mpv3.5, Error ellipse: s-maj=16.9km s-min=9.6km az=64.0, Suspected Mining explosion.

ISC 23 08:41:12.8, 0.8, 53.87N:0.03:88.24E:0.02, h0km, n24, 0.92/47, 4C-13D, Southwestern Siberia

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like LUZB Luzhba, KERU Erunakovo, KALT3 Kaitan 3, MALIN Malinova, KOTO Kotino, TASR Tashtagol, POMOR Pomortsevo, BJR3 Bachatsky-3, BJR2 Bachatsky-2, ELT Eitsova, BJR1 Bachatsky 1, VEH Verkhnyaya Baz, SALR Pechorkino, BRCR Berchikulo, ZAAO Zalesovo Array, DJO Djoy, YALR Yailay, ARTR Artybasy, CERR Cheremushki, BALAH Balakhonka, KURK Kurchatov, KURBB Kurchatov Arra, MK31 Makanchi Array, MK31 Makanchi, MAZ Makanchi.

2019 JUN

NEIC 23 08:50:15.8, 0.9, 19.454N:0.007:155.425W:0.004, h5km, 1km, Error ellipse: s-maj=2.9km s-min=1.3km az=218.0

HVO 23 08:50:15.3, 1.0, 19.454N:0.004:155.420W:0.006, h6km, 4km, ML2.8/43, ML2.8/42(NEIC), Error ellipse: s-maj=0.9km s-min=0.6km az=120.0, Hawaiian Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like MLH Mauna Loa, AIN Ainaohu, WRMH West Rim, UWU Uwekahuna, OBL Observatory Le, RSD Rainshed, SDHI Sand Hill, UWB Uwekahuna Bluf, SBLH Steaming Bluff, RIM Rim, HATH Halema'uma'u T, KKO Keanakakoi, BYL Byron's Ledge, HMH Humu'ula Sheep, MWH Mokuaweoweo, HLP Hilina Pali, PTC Pauahi, HUH Hualalai, CPH Captain Cook, KKH Kaiulu Kona, MHA Mahukona, HLK Haleakala, KHLH Kahului Airpor.

IDC 23 08:54:59.2, 14.0, 24.01S:179.47W, h381km, 125km, mb3.1/5, mbmp3.9/6, Error ellipse: s-maj=104.7km s-min=22.7km az=45.0

ISC 23 08:55:10.3, 2.1, 24.05S:179.77W:0.3, h512km, n9, 0.531/8, mb3.5/6, 2D, South of Fiji Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like URZ Urewera, ASAR Waipua Springs, WRA Warramunga Arr, Vnda Vanda, QSPA South Pole Qui, TROLL Troll, SNAAS Snaas, VNA3 Newayer Olymp, HFS Hagfors.

IDC 23 09:00:54.8, 3.2, 33.37S:179.09W, h0km, mb3.4/2, mbmp3.5/3, ML3.5/1, Error ellipse: s-maj=73.4km s-min=46.9km az=114.0

WEL 23 09:01:00.5, 0.7, 34.56S:17.9W:1.5, h33km, M4.1/6, mB4.8/2, ML4.5/13, ML4.1/6, Mw(mb)4.0/2, Error ellipse: s-maj=21.0km s-min=4.4km az=109.3, confirmed

ISC 23 09:01:00.5, 1.2, 33.54S:0.07:178.9W:0.1, h48km, n21, 0.173/33, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like GLKZ Green Lake, MXZ Matakaoa Point, WNGZ Waiomatatini S, PKGZ Pakihiroa, HAZ Te Kaha, PUK Puketiti, RUGZ Raukumara Rang, TWGZ Tauwhareparae, CARR Carnagh Statio, MWZ Matawai, URZ Urewera, URZ Urewera, URZ Urewera, WUZ Waipua Caves.

1400

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like KNZ Kokohu, OUZ Omahuta, BKZ Black Stump Fm, TSZ Takapari, ASAR Alice Springs, WRA Warramunga Arr, FINES Finnes Array B.

UCR 23 09:01:10.0, 0.8, 11.70N:86.43W, h88km, 5km, MW3.6, CATAC 23 09:01:11.7, 0.3, 12.1N:83.8W, h60km, 3km, M3.2/25, ML3.2/25, Error ellipse: s-maj=6.9km s-min=3.1km az=33.5, confirmed

SNET 23 09:01:18.0, 0.8, 11.97N:86.80W, h35km, 379km, ML3.0, ISC 23 09:01:10.9, 1.3, 11.69N:0.05:86.46W:0.04, h80km, 8km, n75, 0.11/99, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res. Includes stations like CRUN El Crucero, SABN Sabanita, NANN Nandasmo, MASN Masaya, MAS3 AI N del Volca, ABCN Banco Central, UNAN Cigeo UNAN, ENAN Enatel Managua, SAPS Ciudad Sandino, TISN Laguna Tiscapa, MGAN Managua, MGAN Managua, COPN Copaltepe, COPN Copaltepe, APQ2 Apoyequ, WILM Americas 2, APQ3 Volcan Apoyequ, ARIN Rivas, MOMM Momotombo, MOMN Al O del Volca, MOM2 El Cardon, JAPN AI SSO del Vol, JAPN AI SSO del Vol, UORN AI O del Volca, CNGA AI SSO del Vol, CNGC Cerro Negro, CNGN Cerro Negro, CNGM Cerro Negro, PLRN Geotermica Pol, PLRN AI Sur del Vol, LCRUZ La Cruz, CARN Rivas, CARN Rivas, BOAB BOACO BROADBAN, BOAB BOACO BROADBAN, PKGN Cerro Pekin, CRIN San Cristobal, CRIN San Cristobal, ACON Acopya, ACON Acopya, MATN Matagalpa, LAPC Finca la Perla, HAEI Hacienda El Estero, PEJA Penjamo Buenos, VRELE La Escondida, ALIBA Liberia Airpor, GPS1 Guardaparques, MESS Messas, URMN Armenia, Volca, CUI Cuiupila, POTN Potosi Cosigu, POTN Potosi Cosigu, POTN Potosi Cosigu, PLVR Palo Verde, LCHL Los Chiles, NICO Nicoya, RCNP Sur Rio San Ju, CWARA Lajas Hojancha, JTS Juntas, CNCH Conchagua, CNCH Conchagua, CNCH Conchagua, VAREZ V. Arenal, LOND La Caada, LCND La Caada, PACA Pacayal, PACA Pacayal, PQSS Presa 15 de Se, ABE2 San Pablo, LOMA Loma Larga, JAYA Jayaque - finc, JAYA Jayaque - finc, NUBE Las Nubes.







Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like PETK, LPHEP, VVDA, BRTR, etc.

IDC 23 11:03:30.6:2.9, 5.43S, 146.88E, h218km, 29km, mb2.9/2, mbtmp3.7/4, Error ellipse: s-maj=8.6km s-min=20.9km az=120.0, Eastern New Guinea region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like PMG, WRA, WRA, ASAR, etc.

CATAC 23 11:07:46.9:0.8, 12°N 5°W, h233km, 5km, M2.8/7, MLV2.8/7, Error ellipse: s-maj=11.9km s-min=6.1km az=37.7, confirmed, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like PKGN, POTN, POLN, etc.

IDC 23 11:08:59.6:10.0, 19.22S, 64.88E, h0km, mb3.7/4, mbtmp3.7/4, MS3.3/3, Error ellipse: s-maj=370.7km s-min=37.4km az=56.0, Mauritius-Reunion region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like H04N2, H04N1, H04N3, etc.

IDC 23 11:21:42.9:0.6, 30.74S, 177.46W, h0km, mb4.3/12, mbtmp4.3/12, MS3.6/4, Error ellipse: s-maj=23.4km s-min=15.8km az=85.0

NEIC 23 11:21:44.6:2.3, 30.6S:0.1x177.4W:0.2, h10km, 1km, mb4.5/15, Error ellipse: s-maj=26.1km s-min=21.3km az=61.0

ISC 23 11:21:47.2:0.6, 30.79S, 177.6W:0.1, h27km, n55, s=1151/56, mb4.5/21, SD, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like RAO, URZ, MSVF, PINNC, etc.

Table with columns: PINNC, Iamb, Iamb, Time Res, Res, ISC. Includes stations like RPZ, FZTU, DUMZ, etc.

IDC 23 11:29:12.3:1.8, 17.92N, 69.06W, h100km, 29km, MD3.5, ML2.3, MW3.3

NEIC 23 11:29:13.2:1.6, 18.8N:0.3x68.61W:0.07, h143km, 12km, ML2.5/18, MD3.3/(RSPR), Error ellipse: s-maj=43.6km s-min=9.2km az=183.0

RSPR 23 11:29:17.6: 18.80N:68.47W, h125km, 3km, MD3.3/7

ISC 23 11:29:17.0:0.2, 18.86N:0.1x68.64W:0.07, h107km, 15km, n36, s=1439/40, 16C-1D, Mona Passage

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like BELA, TROLL, SNAIA, etc.

SDD 23 11:29:12.3:1.8, 17.92N:69.06W, h100km, 29km, MD3.5, ML2.3, MW3.3

NEIC 23 11:29:13.2:1.6, 18.8N:0.3x68.61W:0.07, h143km, 12km, ML2.5/18, MD3.3/(RSPR), Error ellipse: s-maj=43.6km s-min=9.2km az=183.0

RSPR 23 11:29:17.6: 18.80N:68.47W, h125km, 3km, MD3.3/7

ISC 23 11:29:17.0:0.2, 18.86N:0.1x68.64W:0.07, h107km, 15km, n36, s=1439/40, 16C-1D, Mona Passage

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like HIDR, PCDR, MIDR, etc.

Table with columns: AGPR, Time Res, Res, ISC. Includes stations like Aguadilla, Puerto Rico, Las Mesas, etc.

JMA 23 11:30:33.0:5.0, 2.24°N, 122.5E:0.5, h76km, 2km, MV1.8/9, NW OFF ISHIGAKIJIMA IS

TAP 23 11:30:33.2:4.2, 24.50N:122.40E, h86km, ML2.6, C

ISC 23 11:30:32.8:1.4, 24.45N:122.40E:0.03, h85km, 8km, n49, s=979/87, Taiwan region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like E0S3, E0S2, E0S4, etc.

IDC 23 11:36:41.0:0.7, 30.81S, 177.47W, h0km, mb4.0/10, mbtmp4.0/10, MS3.6/4, Error ellipse: s-maj=24.4km s-min=17.4km az=85.0

ISC 23 11:36:45.2:0.7, 30.83S:0.07x177.6W:0.1, h27km, n23, s=987/21, mb4.1/12, MS3.6/4, AD, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, Res, ISC. Includes stations like RAO, URZ, URZ, etc.



Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include ATHU Athens Unvers, PTL Penteli, METE Megalochori, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include KURBB Kurchatov Arra, KKAR Karatay Array, BVAR Borovoye Array, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include KUR07 Kurchatov Arra, KUR06 Kurchatov Arra, KUR14 Kurchatov Arra, etc.

IDC 23 11:58:35.6, 2.2, 5.97N, 126.57E, h25km, 13km, mb4.0/19, mbmp4.2/19, MS3.4/7, Error ellipse: s-maj=29.9km

NEIC 23 11:58:37.9, 1.7, 5.94N, 0.06x126.30E, 0.09, h35km, 2km, mb4.5/29, Error ellipse: s-maj=16.6km s-min=10.1km

DJA 23 11:58:40.2, 1.4, 6.1N, 3x12.6E, h27km, 14km, M4.7/13, mb4.7/13, mB5.1/3, MLV4.7/11, Mw(MB)4.5/3

ISC 23 11:58:41.0, 4.5, 5.93N, 0.05x126.29E, 0.08, h71km, n78, m=173/81, mb4.4/36, Mindanao

IDC 23 11:58:35.6, 2.2, 5.97N, 126.57E, h25km, 13km, mb4.0/19, mbmp4.2/19, MS3.4/7, Error ellipse: s-maj=29.9km

NEIC 23 11:58:37.9, 1.7, 5.94N, 0.06x126.30E, 0.09, h35km, 2km, mb4.5/29, Error ellipse: s-maj=16.6km s-min=10.1km

DJA 23 11:58:40.2, 1.4, 6.1N, 3x12.6E, h27km, 14km, M4.7/13, mb4.7/13, mB5.1/3, MLV4.7/11, Mw(MB)4.5/3

ISC 23 11:58:41.0, 4.5, 5.93N, 0.05x126.29E, 0.08, h71km, n78, m=173/81, mb4.4/36, Mindanao

IDC 23 13:23:08.4, 0.8, 16.42S, 178.32E, h0km, mb4.0/11, mbmp4.0/11, MS3.6/38, Error ellipse: s-maj=29.7km

NEIC 23 13:23:09.3, 1.6, 16.39S, 0.02x177.5E, 0.1, h10km, 1km, mb4.7/56, Error ellipse: s-maj=18.8km s-min=3.1km

ISC 23 13:23:11.8, 0.5, 16.44S, 0.06x177.62E, 0.09, h24km, n238, m=107/182, mb4.7/39, MS3.7/36, Fiji Islands

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include DAV Davao City (W), DAV Davao City (W), DAV 86km, 0.3s, baz=108, slow=3.2, SNR=8.8, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include D20K D20K, D22K D22K, D22K D22K, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include OTUK Ortau, OTUK Ortau, ZALV Zalesovo Beam, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include SNGSI Sangihe, TNTI Ternate, TMSI Cibinong, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include NOA NORSAR Array B, YKA Yellowknife Arr, TXAR TXAR, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include MSVF Nonsavu, FUTU Fugatoga, DZM Dumac, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include WRA Warramunga Arr, WRA Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include LUES Luesalemba Tem, LUES Luesalemba Tem, HUHO Huro Makira, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include NIUE Niue, RAO Raoul Island, HNR Honiara, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include WRA Warramunga Arr, PSI Prapat, PSAO Pilbara Seismi, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include KUR Kuril'sk, KUR 120nm, 0.4s, KUR 350nm, 0.2s, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include H112 WAKE ISLAND Hy, H111 WAKE ISLAND Hy, H110 WAKE ISLAND Hy, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include NEM Nemuro 2, NEM Nemuro-Hokkai, NMR Nemuro, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include ARMA Armadale, ARMA Armadale, ARMA Armadale, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include JRA Rausu, JNSB Nemuroshibetsu, JNKH Kushirohama, etc.

Table with columns: Code, Station Name, Az, Az2, Phase, ID, Time, Res, ISC. Rows include AKUT Akutan, USRK Ussuriysk Arr, QSPA South Pole Quik, etc.

23d 13h

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes stations like CN2 Changchun, KDAK Kodiar Island, O17K Koliganek Bris, etc.

2019 JUN

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes stations like ELK Elko, H20K Anoteneega Mo, M26K Nabesna, AK, G19K Purcell Mouta, etc.

1406

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes stations like B21K Ikpikpuk River, TOLK Toolik Lake Re, D23K Nanushuk River, etc.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.

Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy. Includes station B21K Ikpikpuk River with detailed error ellipse and rate information.





23d 15h

Table with columns: I29M, M27K, F30M, BCAR, G29M, M26K, I28M, BORG, NEEM, I26K, PAX, PCAS, PMTG, J25K, PESTR, PBAR, IL31, ILAR, ILAR, ILAR, SUA, H24K, KDAK, NEA2, TRF, I23K, SKT, D25K, BPWA, MLY, G23K, ESCD, J20K, F21K, D22K, EKA, J14K, SPITS, HFS, GERES, SNA4, KURBB, KSR5, ASAR, ASAR, WRA, PZH, H01W1, H01W2, H01W3, CMAR, etc. Each row contains station name, coordinates, and various parameters.

2019 JUN

Table with columns: I29M, M27K, F30M, BCAR, G29M, M26K, I28M, BORG, NEEM, I26K, PAX, PCAS, PMTG, J25K, PESTR, PBAR, IL31, ILAR, ILAR, ILAR, SUA, H24K, KDAK, NEA2, TRF, I23K, SKT, D25K, BPWA, MLY, G23K, ESCD, J20K, F21K, D22K, EKA, J14K, SPITS, HFS, GERES, SNA4, KURBB, KSR5, ASAR, ASAR, WRA, PZH, H01W1, H01W2, H01W3, CMAR, etc. Each row contains station name, coordinates, and various parameters.

1408

Table with columns: FITZ, FITZ, WRA, WRA, STKA, STKA, NNC 23 15:56:04.0, 2.0, 36.62N, 70.48E, h137km, 45km, mb3.1, mpv3.8, 3C-2D, Error ellipse: s-maj=19.1km, s-min=16.0km, az=151.0, Hindu Kush region, etc. Each row contains station name, coordinates, and various parameters.

TERR	Teriberka	11.33 152	P	Pn	16 02 14.3	-1.7
TERR					16 04 13.7	-8.7
HEF	Hetta	11.52 174	S	Pn	16 02 16.7	-2.0
HEF					16 04 20.4	-6.7
HEF	Hetta	11.52 174	eP	Pn	16 02 17.8	-0.9
HEF					16 04 21.4	-6.7
LVZ	Lovozero	12.57 154	Pn	Pn	16 02 32.3	-0.8
LVZ	Lovozero	12.57 154	P	Pn	16 02 32.3	-0.8
LVZ					16 04 42.2	-1.1
LVZ					16 02 34.9	-0.4
APAO	Apaitity Array	12.74 157	P	Sn	16 04 49.0	-7.9
APAO	baz=346,slow=14					
APAO	Apaitity Array	12.74 157	P	Pn	16 02 36.2	+0.9
APAO					16 04 47.7	-9.2
APAO	Apaitity Array	12.74 157	S	Pn	16 02 34.9	-0.4
APAO	baz=346,slow=14					
APA	Apaitity	12.80 157	P	Pn	16 02 34.9	-1.3
APA					16 04 49.5	-9.0
KVDA	Kovda	13.63 158	P	S	16 02 46.2	-1.2
KVDA					16 05 11.7	-7.0
SUMG	Summit	14.94 273	Pn	Pn	16 03 02.5	-3.1
SUMG	Summit	14.94 273	iP	Pn	16 03 02.0	-3.6
LSH	Leshukonskoye	16.59 140	eS	Pn	16 03 22.9	-3.8
LSH					16 03 21.4	-8.9
FI1	FINESS Array S	18.56 171	P	P	16 03 49.3	-1.7
FI1	FINESS Array S	18.56 171	P	P	16 03 50.0	-1.0
FI1	baz=355,slow=14					
FI1	FINESS Array S	18.56 171	P	P	16 03 50.0	-1.0
FI1	baz=355,slow=14					
FINO	FINESS Array B	18.56 171	P	P	16 03 49.1	-1.8
FINO	comp=Z,1.1nm,0.5s,baz=10,slow=11,SNR=10					
FINES					16 07 07.7	-1.1
FINES	comp=Z,1.0nm,0.5s,baz=359,slow=23,SNR=1.8					
FINES					16 10 24.7	
NC405	NORSAR Array S	18.98 193	P	Pn	16 03 56.5	+0.3
NC405	comp=Z,38nm,19.2s,baz=356,slow=35					
NC405					16 04 01.4	
NB201	NORSAR Array S	19.06 193	P	P	16 03 56.3	-0.2
NB201	comp=Z,2.2nm,1.4s					
NB201					16 04 11.2	
NB2	NORSAR Array S	19.07 193	P	Pn	16 03 59.7	+2.3
NB2	comp=Z,0.9nm,0.4s,baz=357,slow=7.4					
NOA	NORSAR Array B	19.07 193	P	P	16 03 57.1	+0.4
NOA	baz=2.7,slow=10,SNR=8.7					
NOA					16 11 14.9	
NOA	comp=Z,1.9nm,19.6s,baz=0.0,slow=37					
NOA	comp=Z,1.1nm,0.8s					
NB000	NORSAR Array S	19.10 194	P	P	16 03 56.9	0.0
NC602	NORSAR Array S	19.16 193	P	P	16 03 59.9	+0.1
NRA0	NORESS Array S	19.16 193	P	P	16 04 00.2	+0.5
NRA0	baz=4.6,slow=14					
NRA0	NORESS Array S	19.16 193	P	P	16 04 00.2	+0.5
NRA0	baz=4.6,slow=14					
HFS	Hagfors	19.89 190	P	P	16 04 06.3	+0.8
HFS	baz=3.1,slow=28					
HFS	Hagfors	19.89 190	P	P	16 04 06.3	+0.8
HFS	comp=Z,1.9nm,0.3s,baz=13,slow=9.1,SNR=50					
HFS					16 12 46.1	
HFS	comp=Z,2.1nm,18.1s,baz=349,slow=40					
HFS	comp=Z,5.9nm,0.4s					
HFS	Hagfors	19.89 190	P	P	16 04 06.3	+0.8
HFS	baz=3.1,slow=28					
KLMR	Klimovskoe	19.91 152	eP	P	16 04 07.5	+1.8
KLMR					16 03 59.9	-4.0
KONO	Kongsberg	20.53 195	P	P	16 04 13.4	+0.9
TIXI	Tiksi	23.74 48	LR	LR	16 14 31.8	
PABE	Paberze	24.04 175	eP	P	16 04 55.1	+2.0
ARTI	Arti	26.42 129	P	P	16 05 13.3	+2.6
BELG	Belgorodnyy	29.43 144	LR	LR	16 18 17.9	
AKASG	Malin Array Be	29.41 168	P	P	16 05 38.1	+0.6
AKASG	comp=Z,1.7nm,0.5s,baz=355,slow=9.3,SNR=1.4					
AKASG					16 17 15.9	
AKB	Malin Array S	29.41 168	P	P	16 05 39.1	+1.6
AKB	comp=Z,3.0nm,0.6s					
KIEV	Kiev	29.42 168	P	P	16 05 39.1	+1.6
KIEV					16 05 40.5	
VRAC	Vranco	30.67 185	LR	LR	16 18 39.5	
VRAC	comp=Z,35nm,18.5s,baz=276,slow=37					
GERES	GERESS Array B	31.19 188	P	P	16 05 55.2	+1.9
GERES	comp=Z,0.2nm,0.6s,baz=16,slow=10,SNR=3.6					
GERES	comp=Z,0.2nm,0.6s					
BVAR	Borovoye Array	31.46 117	P	P	16 05 56.6	+1.0
BVAR	comp=Z,1.1nm,0.6s,baz=353,slow=11,SNR=5.5					
BVAR	comp=Z,1.1nm,0.6s					
AKTO	Aktubinsk	32.18 133	LR	LR	16 21 13.9	
AKTO	comp=Z,4.2nm,18.7s,baz=286,slow=40					
BUR08	Bucovina Ar. S	32.36 174	P	P	16 06 04.0	+0.3
BURAR	Bucovina Array	32.39 174	P	P	16 06 05.0	+1.1
BURAR					16 06 08.3	
ZALV	Zalesovo Beam	32.99 101	P	P	16 06 09.5	+0.6
ZALV	comp=Z,0.5nm,0.4s,baz=353,slow=11,SNR=3.6					
AB31	Akbulak array	33.59 131	P	P	16 06 15.3	+1.1
AB31	comp=Z,0.5nm,0.4s					
AB31					16 06 45.3	
ABKAR	Akbulak array	33.59 131	P	P	16 06 15.9	+1.6
MLR	Muntele Rosu	34.52 173	P	P	16 06 22.4	-0.2
MLR	comp=Z,5.9nm,1.4s					
MLR					16 06 59.9	
MLR	Muntele Rosu	34.52 173	LR	LR	16 22 06.8	
MLR	comp=Z,1.5nm,18.2s,baz=352,slow=39					
KURBB	Kurchatov Arr	35.11 110	P	P	16 06 29.5	+2.1
KURBB	comp=Z,3.1nm,0.7s,baz=345,slow=7.8,SNR=24					
KURBB	comp=Z,3.1nm,0.7s					
ILAR	Eielson Array	35.43 330	P	P	16 06 30.3	+0.3
ILAR	comp=Z,0.7nm,0.8s					
ILAR	comp=Z,0.7nm,0.8s,baz=3.1,slow=8.2,SNR=9.4					
KBZ	Khabaz	37.18 152	P	P	16 06 48.6	+3.5
KBZ	comp=Z,0.6nm,0.4s,baz=339,slow=3.2,SNR=3.6					
KBZ	comp=Z,0.6nm,0.4s					
SPU	Mount Spurr	39.15 354	P	P	16 07 01.5	-0.1
MAKZ	Makanchi	39.38 107	P	P	16 07 04.6	+0.8
MAKZ	comp=Z,2.9nm,0.7s					
MAKZ					16 07 08.6	
MK31	Makanchi Array	39.45 107	P	P	16 07 05.5	+1.3
MK31	comp=Z,2.7nm,0.6s					
MK31					16 07 08.9	
MKAR	Makanchi Array	39.45 107	P	P	16 07 06.0	+1.8
MKAR	comp=Z,2.8nm,0.6s,baz=345,slow=7.2,SNR=25					
MKAR	comp=Z,2.8nm,0.6s					
MKAR	Makanchi Array	39.45 107	P	P	16 07 06.3	+2.1
MKAR	comp=Z,2.8nm,0.6s					
BRTR	Keskin Array B	40.55 164	P	P	16 07 16.4	+2.8
BRTR	comp=Z,0.7nm,0.7s,baz=347,slow=5.1,SNR=4.3					
BRTR	comp=Z,0.7nm,0.7s					
GNI	Garni	40.89 151	LR	LR	16 24 44.1	
GNI	comp=Z,2.1nm,20.2s,baz=37,slow=37					
KKAR	Karatay Array	41.13 121	P	P	16 07 19.9	+1.7
ESDC	Sonsec Array	41.33 209	P	P	16 07 22.3	+2.4
ESDC	comp=Z,0.3nm,0.6s,baz=10,slow=8.7,SNR=5.0					
ESDC	comp=Z,0.3nm,0.6s					
BOOM	Boomskeye usch	42.58 115	P	P	16 07 32.7	+2.5
BOOM					16 07 36.2	
SONM	Songino Array	42.68 83	P	P	16 07 31.8	+0.8
SONM	comp=Z,0.3nm,0.4s,baz=353,slow=6.4,SNR=2.2					
SONM	comp=Z,0.3nm,0.4s					
PETK	Petrovavlovsk	45.08 35	P	P	16 07 50.0	0.0
PETK	comp=Z,1.2nm,0.8s,baz=17,slow=10,SNR=5.2					
PETK	comp=Z,1.2nm,0.8s					
MJAR	Matsushiro Arr	58.92 56	P	P	16 09 34.3	+1.0
MJAR	comp=Z,1.2nm,0.9s,baz=343,slow=5.9,SNR=4.6					
MJAR	comp=Z,1.2nm,0.9s					
NVAR	Mina Array Bea	59.70 323	P	P	16 09 40.0	+1.1
NVAR	comp=Z,0.2nm,0.3s					
TXAR	Lajitas Array	66.85 308	P	P	16 10 25.9	-0.3
TXAR	comp=Z,0.7nm,0.7s,baz=339,slow=3.6,SNR=9.0					
TXAR	comp=Z,0.7nm,0.7s					
CMAR	Chiang Mai Arr	69.96 96	P	P	16 10 46.1	+0.5
CMAR	comp=Z,0.4nm,0.6s,baz=354,slow=7.2,SNR=4.1					
CMAR	comp=Z,0.4nm,0.6s					
ASAR	Alice Springs	117.28 71	PKP	PKPdf	16 18 18.4	-0.9
ASAR	comp=Z,0.4nm,0.8s,baz=339,slow=2.3,SNR=1.7					

mbmp4.3/13,ML3.9/1,MS3.8/16,Error ellipse:  
s-maj=24.9km s-min=15.6km az=95.0  
NEIC 23 16:05:07.5-1.6,30:8S:0.1,177:7W:0.2,h10km,1km,  
mb4.8/25,Error ellipse: s-maj=24.8km s-min=17.3km  
az=106.0

NOU 23 16:05:12.1,31:77S:176:87W,h0km,mb4.5/11,  
Kermadec Islands Region  
ISC 23 16:05:09.2,0.5,30.84S:0.06,177:7W:0.1,h27km,n106,  
e1931/93,mb4.7/25,MS3.8/13,72, Kermadec Islands

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
RAO	Raoul Island	1.60 351	Pn	ISC	16 05 34.1	-1.6
RAO	638nm,0.3s,baz=102,slow=20,SNR=19					
RAO					16 05 52.7	-2.9
RAO	2jm,0.3s,baz=212,slow=24,SNR=10.0					
RAO					16 06 09.0	
OUZ	Omahuta	8.55 237	Pn	Pn	16 07 17.2	+6.1
OUZ	Urewera	8.57 209	Pn	Pn	16 07 09.3	-2.1
OUZ	4.9nm,0.3s,baz=119,slow=19,SNR=11					
URZ	1.3nm,0.3s,baz=172,slow=16,SNR=5.0					
URZ	4.2nm,0.3s					
URZ	Urewera	8.57 209	Pn	Pn	16 07 10.3	-1.1
URZ	Ruatapu	8.92 298	Pn	Pn	16 07 15.6	-0.8
QRZ	Quartz Range	12.75 216	P	P	16 08 11.4	+2.8
TRZ	Tophouse	13.28 212	Pn	Pn	16 08 14.8	-1.2
KHZ	Kahutara	13.53 209	P	LR	16 08 17.4	-1.9
MSVF	Nonsavu	13.63 342	LR	LR	16 12 53.0	
MSVF	4.9nm,0.3s,baz=187,slow=185,slow=34					
MSVF	Nonsavu	13.63 342	P	P	16 08 40.6	+1.1
RPZ	Rata Peaks	15.66 212	Pn	P	16 08 44.1	-3.8
RPZ	1.1nm,0.3s,baz=42,slow=14,SNR=5.8					
RPZ	0.4nm,0.3s,baz=341,slow=21,SNR=1.7					
RPZ	Rata Peaks	15.66 212	P	P	16 08 49.8	-2.0
OUENC	Ouen Island, N	16.00 297	P	P	16 09 14.3	+1.6
YATNC	Mamie plateau,	16.37 299	P	P	16 09 17.0	+1.7
DZM	Mont Dzumac	16.70 298	LR	LR	16 09 07.5	+4.0
DZM	comp=Z,497nm,18.8s,baz=123,slow=34					
DZM	Mont Dzumac	16.70 298	P	P	16 09 20.5	+1.7
ODZ	Otahua Downs	16.89 210	P	P	16 09 05.1	-0.3
JCZ	Jackson Bay	17.01 215	P	P	16 09 07.5	+0.7
RAR	Rarotonga	18.69 63	LR	LR	16 16 12.9	
ARMA	Armidale	26.40 263	P	P	16 10 46.0	+2.4
ARMA					16 11 15.7	
EIDS	Eidsvold	28.06 273	P	P	16 10 60.0	+1.5
EIDS	comp=Z,1.8nm,1.4s					
CAN	Canberra	28.22 252	P	P	16 11 02.5	+2.7
PPT	Papeete	28.72 69	LR	LR	16 12 01.7	
PPT	comp=Z,38nm,18.4s,baz=284,slow=35					
HNR	Honiara	29.82 311	P	P	16 11 13.1	-1.0
TOO	Tootalangi	31.07 247	P	P	16 11 25.7	+0.6
CTAO	Charters Town	34.17 280	Iamb	Iamb	16 11 52.1	-0.3
CTAO					16 12 06.3	
STKA	Stephens Creek	34.68 257	P	P	16 11 56.6	0.0
STKA	Step					



Table with columns for call sign, name, frequency, and other parameters. Includes entries like ILAS Lasjerd, IRAM Ramesheh, ANAR Anarak, etc.

Table with columns for call sign, name, frequency, and other parameters. Includes entries like TIRR Tirusor, ALN Alexandroupoli, VRH Novokhopyorsk, etc.

Table with columns for call sign, name, frequency, and other parameters. Includes entries like OBN OBN, SIRS Sira, MOS Moscow, etc.

23d 16h

Table with columns for station name, coordinates, elevation, and other technical data. Includes stations like CRNS Crni Vrh, DPC Dobruska-Polom, TREC Trest, etc.

2019 JUN

Table with columns for station name, coordinates, elevation, and other technical data. Includes stations like BNI Falkenberg, FABU Boras, LOKD Lodwar, etc.

1412

Table with columns for station name, coordinates, elevation, and other technical data. Includes stations like NJ2 Nanjing, KLOW Kaidwane, KLR Kul'dur, etc.



E27K	Coleen River	77.57	3	P	P	17 03 55.1	0.0
INX	Inuvik	77.59	360	P	Iamb	17 03 55.3	+0.1
INX	comp=Z,6.2nm,1.0s					17 03 55.9	
INX	Inuvik	77.59	360	P	pmax	17 03 55.3	+0.1
INX	comp=Z,6.0nm,1.0s						
F21K	Alatina River	77.64	7	Iamb	Iamb	17 03 57.4	
F21K	Alatina River	77.64	7	P	P	17 03 55.7	+0.1
DAV	Davao City (W)	77.77	90	LR	LR	17 41 05.3	
F24K	Squaw Lake	77.87	5	Iamb	Iamb	17 03 58.9	
F24K	Squaw Lake	77.87	5	P	P	17 03 56.9	+0.1
F26K	Sheenjek River	77.94	4	P	P	17 03 57.7	+0.4
F25K	Christian River	77.95	4	Iamb	Iamb	17 03 59.4	
F25K	Christian River	77.95	4	P	P	17 03 57.6	+0.3
COLD	Coldfoot	77.96	6	Iamb	Iamb	17 03 59.5	
COLD	Coldfoot	77.96	6	P	P	17 03 57.6	+0.3
G22K	Bettles	78.14	7	P	P	17 03 58.6	+0.3
G16K	Koyuk River	78.16	12	P	P	17 03 58.2	-0.2
BMAR	Burnt Mountain	78.17	4	P	P	17 03 59.0	+0.4
G15K	Niukluk	78.23	12	P	P	17 03 58.8	0.0
G19K	Purcell Mouna	78.24	9	Iamb	Iamb	17 04 00.4	
G19K	Purcell Mouna	78.24	9	P	P	17 03 58.7	-0.2
G18K	Tagagawik	78.26	10	P	P	17 03 58.6	-0.4
F30M	Barrier River	78.28	1	P	P	17 03 58.9	-0.2
G21K	Alakaket	78.32	8	P	P	17 03 59.5	+0.1
G17K	Kiwalik Mouna	78.33	11	P	P	17 03 59.0	-0.4
ANM	Nome	78.38	13	P	P	17 03 59.4	-0.3
F31M	Tsiigehchic	78.46	360	P	P	17 04 00.1	+0.1
G23K	Bananza Creek	78.48	6	P	P	17 04 00.4	+0.1
G26K	Porcupine River	78.70	4	P	P	17 04 02.0	+0.6
G24K	Hadweenic Riv	78.70	5	Iamb	Iamb	17 04 03.6	
G24K	Hadweenic Riv	78.70	5	P	P	17 04 01.9	+0.5
G25K	Bearman Lake	78.74	5	P	P	17 04 02.1	+0.5
IMAR	Indian Moutai	78.81	8	P	P	17 04 02.1	+0.1
H16K	Elim	78.87	12	P	P	17 04 02.6	+0.2
G30M	lAoh Zraii Nji	78.91	1	P	P	17 04 02.5	-0.1
H19K	Roundabout Mou	78.91	9	P	P	17 04 02.3	-0.3
G27K	Doyon Strip	78.94	3	Iamb	Iamb	17 04 04.9	
G27K	Doyon Strip	78.94	3	P	P	17 04 03.0	+0.2
G29M	Pine Creek	78.95	1	P	P	17 04 02.8	0.0
H17K	Granite Mouna	78.97	11	P	P	17 04 02.4	-0.5
G31M	Satah River	78.98	360	P	P	17 04 02.6	-0.3
H18K	Honhosa River	79.00	10	P	P	17 04 03.4	+0.3
H20K	Anotleneega Mo	79.14	9	P	P	17 04 04.3	+0.4
H22K	Ishlitalina Cre	79.15	7	P	P	17 04 04.1	+0.2
H21K	Melozitna River	79.23	8	Iamb	Iamb	17 04 06.4	
H21K	Melozitna River	79.23	8	P	P	17 04 04.8	+0.5
H25K	Birch Creek	79.25	5	P	P	17 04 04.6	+0.2
H23K	Yukon River	79.39	6	Iamb	Iamb	17 04 07.7	
H23K	Yukon River	79.39	6	P	P	17 04 05.6	+0.3
EPYK	Eagle Plains	79.52	1	P	P	17 04 05.8	-0.2
H24K	Noodor Dome	79.52	6	Iamb	Iamb	17 04 08.0	
H24K	Noodor Dome	79.52	6	P	P	17 04 06.3	+0.3
H27K	Steamboat Moun	79.52	3	Iamb	Iamb	17 04 08.1	
H27K	Steamboat Moun	79.52	3	P	P	17 04 06.3	+0.3
GCSA	Galena City Sc	79.60	10	P	P	17 04 06.6	+0.3
H29M	Whitestone	79.64	2	Iamb	Iamb	17 04 08.4	
H29M	Whitestone	79.64	2	P	P	17 04 06.6	0.0
H17K	Unalakleet	79.83	11	P	P	17 04 07.4	-0.2
I20K	Naaghedeneel	79.86	9	P	P	17 04 08.2	+0.4
PRP	Porcupine Dome	80.01	5	P	P	17 04 09.1	+0.3
MLY	Manley	80.05	7	Iamb	Iamb	17 04 09.1	+0.2
MLY	Manley	80.05	7	P	P	17 04 09.1	+0.2
I23K	Minto, Yukon-K	80.07	6	P	P	17 04 08.8	-0.1
H31M	Peel River	80.10	360	Iamb	Iamb	17 04 19.5	
H31M	Peel River	80.10	360	P	P	17 04 08.9	-0.2
I27K	Kandik River	80.14	3	P	P	17 04 09.3	-0.1
I28M	Miner Creek	80.37	2	Iamb	Iamb	17 04 11.6	
I28M	Miner Creek	80.37	2	P	P	17 04 10.6	0.0
I26K	Coal Creek Min	80.37	4	Iamb	Iamb	17 04 12.5	
I26K	Coal Creek Min	80.37	4	P	P	17 04 10.5	0.0
J14K	Nanvaranak Lak	80.38	13	P	P	17 04 10.4	-0.1
J16K	Amvik River	80.41	12	P	P	17 04 11.0	+0.3
COLA	College	80.47	606P	pmax	pmax	17 04 10.7	-0.3
COLA	College	80.47	6	P	P	17 04 11.2	+0.2
J19K	Poorman	80.48	9	Iamb	Iamb	17 04 13.1	
J19K	Poorman	80.48	9	P	P	17 04 11.4	+0.2
J20K	Nowinta River	80.50	9	Iamb	Iamb	17 04 13.2	
J20K	Nowinta River	80.50	9	P	P	17 04 11.8	+0.6
I29M	Ogilvie Camp	80.50	2	Iamb	Iamb	17 04 12.2	
I29M	Ogilvie Camp	80.50	2	P	P	17 04 11.5	+0.2
J17K	VABM Dome	80.55	11	P	P	17 04 11.5	0.0
NEA2	Nenana	80.64	6	P	P	17 04 11.9	-0.1
ILAR	Eielson Array	80.65	5	P	P	17 04 11.5	-0.6
ILAR	Eielson Array	80.65	5	P	P	17 04 12.1	0.0
I30M	Mount Dempster	80.67	1	Iamb	Iamb	17 04 13.5	

I30M	Mount Dempster	80.67	1	P	P	17 04 12.7	+0.4
K13K	Kusilvak Mount	80.91	14	P	P	17 04 13.0	-0.4
J25K	Salcha River,	80.92	5	P	P	17 04 13.6	0.0
BPAW	Bear Paw Mtn,	80.94	7	Iamb	Iamb	17 04 15.0	
BPAW	Bear Paw Mtn,	80.94	7	P	P	17 04 13.5	-0.2
HDA	Harding Lake	81.00	5	P	P	17 04 13.9	0.0
J26L	Josh Creek	81.15	4	P	P	17 04 14.7	-0.1
K15K	Wolf Creek Mou	81.17	12	P	P	17 04 15.2	+0.4
K20K	Telida	81.30	9	Iamb	Iamb	17 04 17.4	
K20K	Telida	81.30	9	P	P	17 04 15.9	+0.3
K17K	Iditarod	81.31	11	P	P	17 04 15.6	0.0
J30M	Hart River	81.33	1	Iamb	Iamb	17 04 17.4	
J30M	Hart River	81.33	1	P	P	17 04 16.2	+0.4
KTH	Kantishna Hill	81.48	7	Iamb	Iamb	17 04 18.7	
CAST	Castle Rocks	81.48	8	Iamb	Iamb	17 04 18.0	
CAST	Castle Rocks	81.48	8	P	P	17 04 16.7	+0.2
MCK	McKinley	81.50	6	P	P	17 04 16.6	-0.1
SCRK	Sand Creek	81.64	4	Iamb	Iamb	17 04 19.3	
SCRK	Sand Creek	81.64	4	P	P	17 04 17.4	-0.1
TRF	Thorofare Moun	81.64	7	P	P	17 04 17.6	0.0
K24K	Donnelly Dome	81.69	5	P	P	17 04 17.6	-0.1
K27K	Chicken	81.70	3	P	P	17 04 17.5	-0.1
L15K	Ungalak Mouna	81.75	13	P	P	17 04 17.6	-0.3
DAWY	Dawson	81.77	2	Iamb	Iamb	17 04 19.4	
DAWY	Dawson	81.77	2	P	P	17 04 17.9	-0.2
RDGW	Independent Ri	81.82	5	P	P	17 04 18.7	+0.3
L14K	Kuka Creek	81.83	13	P	P	17 04 18.7	+0.4
L17K	Donlin	81.86	11	P	P	17 04 18.3	-0.2
DOT	Dot Lake	81.96	4	Iamb	Iamb	17 04 20.7	
PPLA	Purkeypile	81.97	8	P	P	17 04 19.0	-0.3
L18K	Granite Mouna	82.03	10	P	P	17 04 19.5	+0.1
K29M	Barlow Dome	82.04	1	Iamb	Iamb	17 04 21.1	
K29M	Barlow Dome	82.04	1	P	P	17 04 19.3	-0.3
YKAW	Yellowknife Wh	82.06	351	Iamb	Iamb	17 04 20.2	
L16K	Owhat River	82.07	12	P	P	17 04 20.9	+0.4
YKAW	Yellowknife Wh	82.12	351	Iamb	Iamb	17 04 19.6	-0.3
YKA	Yellowknife Ar	82.12	351	LR	LR	17 42 17.9	
L20K	Farewell, AK	82.17	9	P	P	17 04 20.5	+0.3
DHY	Denali Highway	82.29	6	P	P	17 04 20.9	0.0
WRGLY	Wrigley	82.30	355	P	P	17 04 20.9	+0.2
L19K	White Mountain	82.33	10	P	P	17 04 21.5	+0.5
M14K	Bethel	82.52	13	P	P	17 04 21.7	-0.2
PAX	Paxson	82.54	5	P	P	17 04 22.3	+0.3
M19K	Big River Lodg	82.66	9	P	P	17 04 23.6	+0.6
BCAR	Beaver Creek A	82.67	3	P	P	17 04 23.2	+0.4
L27K	Beaver Creek	82.67	3	Iamb	Iamb	17 04 24.7	
L27K	Beaver Creek	82.67	3	P	P	17 04 23.3	+0.5
M17K	Hollita River	82.69	11	P	P	17 04 23.3	+0.4
WAT6	Susitna Watana	82.74	6	P	P	17 04 23.1	-0.3
L29M	L29M	82.76	2	Iamb	Iamb	17 04 25.7	
L29M	L29M	82.76	2	P	P	17 04 23.3	0.0
M16K	Timber Creek	82.80	12	P	P	17 04 24.0	+0.5
M15K	Kasulik River	82.81	13	P	P	17 04 23.8	+0.4
M20K	Styx River	82.84	9	P	P	17 04 23.8	+0.1
M18K	Stony River	82.85	10	P	P	17 04 24.2	+0.6
SKT	Skwentna	82.94	8	Iamb	Iamb	17 04 25.9	
SKT	Skwentna	82.94	8	P	P	17 04 24.9	+0.7
HARP	HAARP	83.13	5	P	P	17 04 25.4	+0.3
M26K	Nabesna, AK	83.27	4	Iamb	Iamb	17 04 27.7	
M26K	Nabesna, AK	83.27	4	P	P	17 04 26.7	+0.8
MMPY	Sheldon Lake,	83.27	359	Iamb	Iamb	17 04 27.6	
MMPY	Sheldon Lake,	83.27	359	P	P	17 04 26.7	+0.8
M22K	Willow	83.32	7	P	P	17 04 27.1	+1.0
M24K	Tolsona, Glenn	83.34	6	P	P	17 04 26.6	+0.3
BVCY	Beaver Creek	83.36	3	P	P	17 04 27.0	+0.6
M27K	Edge Creek, AK	83.37	4	Iamb	Iamb	17 04 29.2	
M27K	Edge Creek, AK	83.37	4	P	P	17 04 26.9	+0.3
N15K	Kwethluk River	83.41	13	P	P	17 04 27.0	+0.4
M29M	Somme Creek	83.42	2	P	P	17 04 26.8	0.0
SML	Sawmill	83.45	7	P	P	17 04 26.9	0.0
SCM	Sheo Creek Mo	83.52	6	P	P	17 04 27.4	+0.2
SUA	Susitna One	83.53	8	P	P	17 04 27.4	0.0
N17K	Nushagak Hills	83.56	11	P	P	17 04 27.7	+0.3
PMR	Palmer	83.58	7	P	P	17 04 27.8	+0.3
FARO	Faro, Yukon	83.69	360	Iamb	Iamb	17 04 30.3	
FARO	Faro, Yukon	83.69	360	P	P	17 04 28.6	+0.6
N19K	Bonanza Creek	83.69	10	P	P	17 04 28.8	+0.6
M31M	Drury Creek, Y	83.72	0	P	P	17 04 28.6	+0.3
KNK	Knik Glacier	83.82	7	P	P	17 04 29.1	+0.4
KLU	Kluana	83.97	6	P	P	17 04 29.5	-0.1
RC01	Rabbit Creek A	84.01	7	Iamb	Iamb	17 04 31.4	
RC01	Rabbit Creek A	84.01	7	P	P	17 04 30.0	+0.3
O14K	Tiguykaiwet M	84.04	14	P	P	17 04 30.3	+0.5

O17K	Koliganek Bris	84.29	11	P	P	17 04 31.0	-0.1
O16K	Kokwok River B	84.30	12	P	P	17 04 30.7	-0.5
PWL	Port Wells	84.38	7	P	P	17 04 31.1	-0.5
O15K	Ungalikthiuk R	84.38	13	P	P	17 04 31.4	-0.1
N31M	Braeburn, Yuko	84.43	1	P	P	17 04 32.1	+0.2
N30M	Aishikik Lake	84.44	1	P	P	17 04 32.0	+0.1
YUK4	Talbot Arm	84.52					

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like HMBC, Humberstone, IROC Station P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like H06E1, WVT, WVT, WNA3, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like MMAI, GERES, BGR 23, etc.











Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like TYV, JANG, MA2, KLR, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like ARCES, FINES, AKASG, etc.

IDD 23 19:35:50.7-0.2, 17.22N:94.70W, h125km, 2km, mb4, 1/23, mbtmp4.5/25, MS3.3/15, Error ellipse: s-maj=11.6km

NEIC 23 19:35:51.5-2.2, 17.20N:0.07:94.74W:0.05, h134km, 6km, mb4, 7/316, MD5.1/154(MEX), Error ellipse: s-maj=10.0km

CATAC 23 19:35:52.0-0.3, 17.0N:6.3W, h136km, 31km, MS.4/13, mb5.1/6, mb5.6/4, MLV5.6/13, Mv(m)5.7/24, Error ellipse: s-maj=13.3km

MEX 23 19:35:52.1-1.2, 17.18N:94.75W, h136km, 10km, MD5.1, GCMT 23 19:35:52.0-0.4, 17.34N:0.03:94.68W:0.03, h139km, 3km, MW4.9/104, Moment Tensor Solution, s24, c24;

ISC 23 19:35:50.5-0.3, 17.16N:0.04:94.76W:0.03, h131km, 3km, h131km, p-P, n600, s122/498, mb4.7/152, Chiapas

Table with columns: Code, Station Name, Frequency, Mode, Power, and other technical details. Includes stations like CMIG, TGIG, TGIB, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like VTR0, VTCV, VTCV, etc.

comp=Z, 0.3nm, 1.3s, pmax

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

comp=Z, 0.2nm, 0.3s, bsz=184, slow=13, SNR=5.1

IDD 23 19:30:31.2-1.9, 16.97S:177.52W, h574km, 19km, mb3.3/11, mbtmp4.3/14, Error ellipse: s-maj=21.2km

ISC 23 19:30:30.6-0.7, 19.0S:02.177:5W:0.1, h570km, n23, s059/23, mb3.8/11, Fiji Islands region

Table with columns: Code, Station Name, Frequency, Mode, Power, and other technical details. Includes stations like MSVF, DZM, RAR, STKA, etc.

Table with columns: Code, Station Name, Frequency, Mode, Power, and other technical details. Includes stations like UNM, AOVN, MOIG, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like TKL, TKL, JSC, S44A, etc.

23d 19h

Table with columns: HDIL, Hopedale, 23.79 10 Iamb, Iamb, 19 40 51.1, etc. Lists various locations and their associated data points.

2019 JUN

Table with columns: CLDB, Colider, 47.53 123 eP, P, 19 44 12.1 -0.9, etc. Lists various locations and their associated data points.

1420

Table with columns: HARP, HAARP, 57.09 335 P, P, 19 45 23.4 +0.5, etc. Lists various locations and their associated data points.

ITAB	Concordia	60.47 136	eP	P	19 45 47.3 +0.5
MLY	Manley	60.49 336	IAMB	IAMB	19 45 48.3
MLY	Manley	60.49 336	P	P	19 45 47.1 +0.6
N19K	Bonanza Creek	60.54 331	IAMB	IAMB	19 45 48.7
N19K	Bonanza Creek	60.54 331	P	P	19 45 47.5 +0.6
F24K	Squaw Lake	60.57 339	P	P	19 45 47.6 +0.6
O18K	Koktuh Hills	60.58 330	P	P	19 45 47.8 +0.7
L20K	Farewell, AK	60.81 333	P	P	19 45 49.2 +0.5
M19K	Big River Lodge	60.85 332	P	P	19 45 49.7 +0.8
G23K	Bananza Creek	60.94 338	IAMB	IAMB	19 45 51.5
G23K	Bananza Creek	60.94 338	P	P	19 45 49.9 +0.4
O16K	King Salmon	60.97 328	P	P	19 45 50.2 +0.5
D25K	Kavir River	60.99 341	P	P	19 45 50.2 +0.5
P17K	Kvichak River	61.00 329	P	P	19 45 49.6 -0.3
E24K	Yur Creek	61.04 340	P	P	19 45 50.4 +0.4
H22K	Ishlaltina Cre	61.09 337	P	P	19 45 50.4 0.0
L19K	White Mountain	61.15 332	IAMB	IAMB	19 45 51.4 +0.5
L19K	White Mountain	61.15 332	P	P	19 45 51.1 +0.2
N18K	Kilae Creek	61.15 331	P	P	19 45 51.3 +0.3
K20K	Telida	61.20 334	IAMB	IAMB	19 45 52.8
K20K	Telida	61.20 334	P	P	19 45 51.8 +0.5
COLD	Goldfoot	61.23 339	P	P	19 45 52.0 +0.7
M18K	Stony River	61.37 331	P	P	19 45 52.7 +0.4
DIAM	Diamantina, MG	61.38 123	eP	P	19 45 53.8 +0.5
E23K	Chandalar	61.41 340	P	P	19 45 53.2 +0.6
VAO	Valinhos	61.45 129	eP	P	19 45 52.7 -0.9
SPB	Sao Paulo	61.46 130	eP	P	19 45 54.1 +0.6
O17K	Koliganek Bris	61.48 329	P	P	19 45 53.3 +0.3
J20K	Nowinta River	61.52 335	IAMB	IAMB	19 45 54.8
J20K	Nowinta River	61.52 335	P	P	19 45 53.7 +0.4
H21K	Melozitna Rive	61.54 336	P	P	19 45 53.8 +0.3
G22K	Bettles	61.56 338	P	P	19 45 54.1 +0.6
TOLK	Toolik Lake Re	61.66 340	P	P	19 45 55.0 +0.7
D24K	Happy Valley	61.66 341	P	P	19 45 55.0 +0.8
CHNA	Chernabura Isl	61.68 323	P	P	19 45 55.1 +0.6
N17K	Nushagak Hills	61.72 330	P	P	19 45 55.0 +0.2
CPBS	Cacapava Do Su	61.79 140	eP	P	19 45 54.8 -0.8
PLCA	Paso Flores	61.84 159	eP	P	19 45 57.7 +1.8
PLCA	Paso Flores	61.84 159	P	P	19 45 57.5 +1.8
PLCA	comp=2.20nm,0.9s,baz=333,slow=8.1,SNR=40		pP	pP	19 46 27.9 +0.7
PLCA	comp=2.9,2nm,1.0s,baz=328,slow=9.4,SNR=5.1				
PLCA	comp=2.0,2nm,0.9s	61.84 159	eP	P	19 45 57.6 +1.8
I20K	Naaghedeneel	61.87 335	P	P	19 45 55.7 +0.1
C24K	Franklin Bluff	61.90 341	IAMB	IAMB	19 45 57.9
C24K	Franklin Bluff	61.90 341	P	P	19 45 56.4 +0.7
O16K	Kokwok River B	61.92 329	P	P	19 45 56.2 +0.2
S14K	Fog Glacier	61.94 325	P	P	19 45 56.0 -0.3
ICESG	Greenland Ices	61.96 19	iP	P	19 45 54.4 -2.2
ICESG	Greenland Ices	61.96 19	IAMB	IAMB	19 45 56.6
L18K	Granite Mounta	61.98 332	P	P	19 45 56.6 +0.2
J19K	Poorman	62.07 334	IAMB	IAMB	19 45 57.2 +0.2
J19K	Poorman	62.07 334	P	P	19 45 58.3
M17K	Holitna River	62.08 331	P	P	19 45 57.0 -0.1
G21K	Alakaket	62.13 337	P	P	19 45 57.9 +0.6
D23K	Nanushuk River	62.17 340	P	P	19 45 58.7 +1.1
E22K	Anaktuvuk Pass	62.18 339	IAMB	IAMB	19 45 59.7
E22K	Anaktuvuk Pass	62.18 339	P	P	19 45 58.4 +0.6
H20K	Antoleneega Mo	62.28 336	P	P	19 45 59.2 +0.8
J18K	Innoko River	62.36 333	P	P	19 45 59.2 +0.2
F21K	Alatna River	62.39 338	IAMB	IAMB	19 46 01.6
F21K	Alatna River	62.39 338	P	P	19 45 59.8 +0.6
N16K	Nishlik Lake	62.47 330	P	P	19 46 00.4 +0.7
C23K	Iklikliik River	62.54 341	IAMB	IAMB	19 46 02.4
C23K	Iklikliik River	62.54 341	P	P	19 46 00.6 +0.6
L17K	Domlin	62.67 332	P	P	19 46 01.7 +0.7
O15K	Ungalikthiuk R	62.68 328	P	P	19 46 02.1 +0.9
M16K	Timber Creek	62.69 330	P	P	19 46 01.7 +0.5
D22K	Aiyikyak River	62.78 340	IAMB	IAMB	19 46 04.2
D22K	Aiyikyak River	62.78 340	P	P	19 46 02.3 +0.6
GCSA	Galena City Sc	62.83 335	P	P	19 46 02.1 +0.2
K17K	Iditarod	62.84 332	P	P	19 46 02.1 0.0
H19K	Roundabout Mou	62.91 332	P	P	19 46 02.7 +0.3
TRQA	Tornquist	62.97 151	P	P	19 46 04.6 +1.3
TRQA	Tornquist	62.97 151	IAMB	IAMB	19 46 05.0
N15K	Kwetliuk River	63.03 329	P	P	19 46 03.4 -0.1
E21K	Killik River	63.04 339	IAMB	IAMB	19 46 05.4
E21K	Killik River	63.04 339	P	P	19 46 03.5 0.0
EUNU	Eureka	63.05 2	P	P	19 46 03.7 +0.4
EUNU	Eureka	63.05 2	IAMB	IAMB	19 46 05.4
L16K	Owhat River	63.10 331	P	P	19 46 04.4 +0.5
F20K	Avaraart Lake	63.15 337	IAMB	IAMB	19 46 06.2
F20K	Avaraart Lake	63.15 337	P	P	19 46 04.8 +0.7
G19K	Purcell Moun	63.35 336	P	P	19 46 06.0 +0.5
J17K	VABM Dome	63.36 333	P	P	19 46 05.6 0.0
M15K	Kasigluk River	63.44 330	P	P	19 46 06.4 +0.2
H18K	Honhosa River	63.55 335	P	P	19 46 07.1 +0.3
C21K	Kniefblade Rid	63.59 340	P	P	19 46 07.0 0.0
B22K	Teshekpuk Lake	63.62 341	IAMB	IAMB	19 46 09.1

B22K	Teshekpuk Lake	63.62 341	P	P	19 46 07.3 +0.1
B21K	Ikpiuk River	63.71 340	P	P	19 46 08.1 +0.4
E20K	Nigret	63.74 339	P	P	19 46 08.4 +0.3
N14K	Kuskokwag Cree	63.76 329	P	P	19 46 08.5 +0.3
F19K	Shaleruukik Mo	63.83 337	IAMB	IAMB	19 46 10.5
F19K	Shaleruukik Mo	63.83 337	P	P	19 46 09.7 +1.1
E19K	Redstone River	63.84 338	P	P	19 46 09.4 +0.8
G18K	Tagagawik	63.89 336	P	P	19 46 10.4 +1.4
SUMC	Summit	63.93 16	iP	P	19 46 10.0 +0.3
J16K	Arvik River	64.00 333	P	P	19 46 10.7 +1.0
L15K	Ungalik Mounta	64.03 331	P	P	19 46 10.8 +0.8
D20K	Etiulik River	64.04 339	IAMB	IAMB	19 46 12.2
D20K	Etiulik River	64.04 339	P	P	19 46 11.2 +1.2
M14K	Bethel	64.06 330	P	P	19 46 10.8 +0.6
H17K	Grete Mounta	64.12 335	P	P	19 46 10.9 +0.3
K15K	Wolf Creek Mou	64.18 332	IAMB	IAMB	19 46 11.1 +0.1
K15K	Wolf Creek Mou	64.18 332	P	P	19 46 11.3 +0.3
A22K	Sinclair Lake	64.37 342	P	P	19 46 12.7 +0.7
F18K	Selawik	64.48 336	P	P	19 46 12.9 +0.1
D19K	Kuna River	64.49 339	P	P	19 46 12.8 -0.1
L14K	Kuka Creek	64.52 330	P	P	19 46 13.2 0.0
G17K	Kiwalik Mounta	64.57 335	P	P	19 46 14.1 +0.7
M13K	Dall Lake	64.67 329	P	P	19 46 14.7 +0.6
B20K	Meade River	64.68 340	IAMB	IAMB	19 46 16.3
B20K	Meade River	64.68 340	P	P	19 46 14.7 +0.7
H16K	Elim	65.02 334	P	P	19 46 16.9 +0.6
F17K	Baldwin Pennin	65.05 336	P	P	19 46 17.1 +0.6
E18K	Tukpalehric C	65.06 337	P	P	19 46 17.0 +0.4
C19K	Lookout Ridge	65.19 339	IAMB	IAMB	19 46 20.0
C19K	Lookout Ridge	65.19 339	P	P	19 46 18.4 +0.9
J14K	Nanvaranak Lak	65.19 332	P	P	19 46 18.4 +0.9
G16K	Koyuk River	65.24 335	P	P	19 46 18.5 +0.8
E17K	Hotham Inlet	65.44 337	P	P	19 46 19.8 +0.8
K13K	Kusliyak Mount	65.56 331	P	P	19 46 20.2 +0.3
UNV	Unalaska Valle	65.56 322	P	P	19 46 20.6 +0.6
C18K	Utukok River	65.61 338	P	P	19 46 20.8 +0.5
G15K	Niukuk	65.84 334	P	P	19 46 22.1 +0.4
A19K	Wainwright	66.01 340	P	P	19 46 23.0 +0.4
B18K	Kokolik River	66.02 339	P	P	19 46 22.7 0.0
D17K	Noatak River	66.06 337	P	P	19 46 23.3 +0.3
F17K	North Star Dit	66.23 335	P	P	19 46 24.7 +0.5
C15K	DeLong Mountai	66.28 338	P	P	19 46 24.3 -0.1
C16K	Lisborne Hills	67.01 338	P	P	19 46 28.9 -0.2
BORG	Borgarnes	67.55 26	LR	LR	20 16 26.5
SPIA	Saint Paul Is	67.89 325	P	P	19 46 35.0 +0.3
PMOZ	Porto Moniz, M	70.63 61	eP	P	19 46 52.7 +0.4
PCAS	Casimio, Conde	76.36 52	eP	P	19 47 25.6 +0.1
PCAB	Cabril	76.39 50	eP	P	19 47 26.1 +0.4
POLO	Lamas de Olo	76.63 51	eP	P	19 47 27.0 -0.1
PVIS	Viseu	76.68 51	eP	P	19 47 27.1 -0.3
PMI4	Sardao	76.70 52	eP	P	19 47 27.1 -0.2
PMTG	Montargil	76.75 53	eP	P	19 47 27.5 -0.3
PMTG	Montargil	76.75 53	IAMB	IAMB	19 47 57.8
EKA	Eskdaleimur Ar	76.97 36	P	P	19 47 28.1 -0.5
EKA	Eskdaleimur Ar	76.97 36	pP	pP	19 47 59.8 -1.5
MESJ	Messejana	77.00 54	eP	P	19 47 29.2 0.0
MTE	Manteigas	77.01 52	eP	P	19 47 29.1 -0.2
EVO	Evora	77.03 53	eP	P	19 47 29.4 +0.2
EVO	Evora	77.03 53	IAMB	IAMB	19 47 35.4
PCBR	Castelo Branco	77.17 52	eP	P	19 47 30.3 +0.3
MVO	Moncorvo	77.24 51	eP	P	19 47 30.4 +0.1
PBEJ	Beja	77.24 54	eP	P	19 47 31.1 +0.6
PBEJ	Beja	77.24 54	IAMB	IAMB	19 47 32.0
PESTR	Estremoz	77.28 53	eP	P	19 47 30.8 0.0
PMRV	Marvão	77.32 52	eP	P	19 47 30.4 0.5
PBRG	Braganca	77.32 50	eP	P	19 47 30.9 -0.1
SPITS	Spitsbergen Ar	77.53 11	P	P	19 47 31.4 0.0
SPITS	comp=2.0,7nm,0.4s,baz=343,slow=3.0,SNR=5.3		LR	LR	20 26 29.7
SPITS	comp=2.11nm,18.3s,baz=300,slow=39				
PBAR	Barrancos	77.85 54	eP	P	19 47 34.0 +0.1
PAB	San Pablo	79.59 52	P	P	19 47 42.8 -0.7
PAB	San Pablo	79.59 52	IAMB	IAMB	19 47 44.5
ESDC	Sonsec Array	79.85 52	P	P	19 47 45.1 +0.2
ESDC	Sonsec Array	79.85 52	P	P	19 47 44.9 0.0
ESDC	comp=2.6,2nm,0.9s,baz=294,slow=5.6,SNR=46				19 48 17.4 -0.4
ESDC	comp=2.2,1nm,1.1s,baz=284,slow=6.1,SNR=3.6				
ESBB	Sonsec Array	79.85 52	P	P	19 47 43.9 -0.9
ESBB	Sonsec Array	79.85 52	IAMB	IAMB	19 47 45.8
MDT	Midelt	81.02 58	LR	LR	20 19 52.7
NB2	NORSAR Subarra	82.64 28	P	P	19 47 59.6 +0.5
NOA	NORSAR Array B	82.64 28	P	P	19 47 59.8 +0.6
NOA	comp=2.3,2nm,0.8s,baz=294,slow=5.3,SNR=13		pP	pP	19 48 32.8 +0.6
NOA	comp=2.1,9nm,0.8s,baz=291,slow=5.2,SNR=4.6				20 27 01.0
NOA	comp=2.11nm,18.1s,baz=275,slow=37				
NOA	comp=2.3,2nm,0.8s				
ARCES	ARCESS Array B	83.97 18	P	P	19 48 09.4 -0.8
ARCES	comp=2.2,6nm,0.7s,baz=289,slow=3.7,SNR=15		pP	pP	19 48 39.6 +0.7
ARCES	comp=2.5,7nm,0.9s,baz=292,slow=3.8,SNR=5.7				
HFS	Hagfors	84.12 29	P	P	19 48 06.5 -0.2
HFS	comp=1.6nm,0.7s,baz=315,slow=0.4,SNR=4.9		pP	pP	19 48 39.2 -0.6
HFS	comp=2.1,4nm,0.9s,baz=246,slow=1.1,SNR=1.6		LR	LR	20 24 10.3
ESpz	Base Esperanza	85.50 164	P	P	19 48 12.8 -0.5
PETK	Petrovavlovsk-	86.55 325	P	P	19 48 18.8 -0.1
PETK	Petrovavlovsk-	86.55 325	P	P	19 48 20.1 +1.2
PETK	comp=2.6,6nm,1.2s,baz=80,slow=11,SNR=8.9		pP	pP	19 48 52.4 +0.2
TIXI	Tiksi	86.62 347	LR	LR	20 33 25.1

DAVA	Damuels	87.11 41	eP	pP	19 48 56.7 +1.3
RETA	Reutte	87.59 41	eP	pP	19 48 58.6 +1.0
FETA	Feiten	87.75 41	iP	pP	19 48 59.5 +1.0
MOTA	Moosalm	87.86 41	iP	pP	19 48 59.7 +0.7
DBIC	Dimbokro	87.87 84	P	P	19 48 27.1 +0.7
DBIC	Dimbokro	87.87 84			

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details for various radio stations.

JMA 23 19:58:31.4, 0.2, 23.9N, 0.9, 122.5E, 0.6, h15km, MV2.6/13, NV OFF ISHIGAKIJIMA IS

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, and other technical details for various radio stations.

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details for various radio stations.

RSPR 23 19:58:43.3, 18.58N, 68.96W, h125km, 1km, MD3.8/23 NEIC 23 19:58:44.1, 2.5, 18.56N, 0.09, 68.98W, 0.06

OSPL 23 19:58:44.6, 3.7, 18.52N, 68.97W, h138km, 22km, MD3.0 SDD 23 19:58:45.7, 3.9, 18.58N, 68.93W, h122km, 15km, MD4.7

ISC 23 19:58:43.8, 1.0, 18.58N, 0.05, 68.96W, 0.03, h121km, 8km, n116, r1928, 153, 26C, 32D, Mona Passage

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, and other technical details for various radio stations.

Table with columns: Call Sign, Frequency, Power, Mode, and other technical details for various radio stations.

Table with columns: ILLAM, BAUV, SDV, ROUC, BOVA, BOAV, etc. and values for various parameters like 8.62 115, 9.62 175, etc.

SJA 23 19:58:57.6:0.7, 29:29S:71.48W, h45km, 10km, ML3.3, MW3.6

GUC 23 19:58:59.5:0.8, 29:27S:71.32W, h52km, 3km, ML3.5

ISC 23 19:58:59.1:1.3, 29:29S:0.03:71.53W, 0.05, h50km, n38, s=1959/62, 1C, Near coast of central Chile

Main table for station data with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, etc. Includes stations like Las Campanas, Tololo Observa, Combarbal, etc.

YARS 23 20:10:21.8, 63:04N:137:10E, h11km, ML2.3/7

MOS 23 20:10:21.3:1.0, 63:10N:137:12E, h11km, mb4.0, Error ellipse: s-maj=19.4km s-min=10.6km az=98.4

ISC 23 20:10:21.7:0.7, 63:08N:137:10E, h0km, mb3.7/12, mbmp3.7/18, ML4.2/5, Error ellipse: s-maj=14.3km s-min=8.2km az=171.0

ISC 23 20:10:22.4:0.5, 63:10N:0.03:137:14E, 0.03, h10km, n45, s=248/88, mb3.6/14, 2C-D, Eastern Siberia

Table for station data with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, etc. Includes stations like Ust'-Nera, Yakutsk, etc.

Main table for station data with columns: YAK, YAK, YAK, etc. and values for various parameters like 3.62 256, 4.26 35, etc.

Table for station data with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, etc. Includes stations like Raoul Island, Stephens Creek, etc.

ISC 23 20:23:23.3:395.0, 11:70S:64:80E, h0km, Error ellipse: s-maj=215.2km s-min=137.5km az=17.0, South Indian Ocean

Table for station data with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, etc. Includes stations like DIEGO GARCIA I, NAIROBI INFRAS, etc.

STR 23 20:43:41.9:1.6, 42:1'N:181:3E, h10km, ML3.9/11, Error ellipse: s-maj=0.0km s-min=0.0km az=7.0, preliminary

NEIC 23 20:43:47.8:2.0, 41:86N:0.04:12:82E, 0.05, h10km, 2km, ML3.4/46, Error ellipse: s-maj=6.7km s-min=5.6km az=303.0

ISC 23 20:43:47.1:1.2, 41:96N:12:55E, h0km, mb3.7/7, mbmp3.5/16, ML3.2/8, MS2.9/9, Error ellipse: s-maj=20.1km s-min=14.5km az=73.0

ROM 23 20:43:47.7:0.0, 41:859N:0.002:12:76E, 0.004, h11km, ML3.7/16, Mw3.6, Error ellipse: s-maj=0.3km s-min=0.2km az=231.0, Moment Tensor Solution.

Moment tensor: Scale 10^14Nm; Mr=2.40; Ms=1.27; M0=1.14; M1=0.04; M2=1.72; M3=0.49; Fault plane solution: M2:71583x10^14 NP1:324.00000, 349.00000, lambda=76.00000, NP2:123.00000, 643.00000, lambda=106.00000

LDG 23 20:43:48.3:0.1, 41:87N:12:81E, h10km, ML3.1/18 Error ellipse: s-maj=2.0km s-min=1.4km az=8.0

PRU 23 20:43:51.6:42.02N:12:82E, h10km

BEO 23 20:43:59.0:0.7, 42:42N:13:66E, h0km, ML3.5/5

ISC 23 20:43:48.3:0.7, 41:86N:0.02:12:76E, 0.02, h14km, 4km, n367, s182/419, mb3.8/6, MS3.0/3, 17C-8D, Southern Italy

Table for station data with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, etc. Includes stations like Rome, Mte Porz, Rocca di Papa, etc.





SGG	comp=N,1795µm,1.0s	AML	AML						
SGG	comp=E,2005µm,1.4s	AML	AML						
SAP2	comp=E,1905µm,1.4s	1.32	21	P	Pg	20 44	13.0	-0.8	
SAP2	comp=N,1970µm,0.4s	AML	AML						
SAP2	comp=E,3425µm,0.5s	1.33	356	P	Pn	20 44	11.9	-0.5	
ATCC	AVT- Casa Cast	1.33	14	P	Pn	20 44	11.6	-0.9	
PF6	Pievefavera	1.33	6	P	Pn	20 44	12.1	-0.5	
FIU1	Fiuminata	1.33	6	P	Pn	20 44	11.6	-0.5	
MAON	Monte Argentar	1.33	296	P	Pn	20 44	11.6	-0.9	
MAON	comp=N,698µm,1.2s	AML	AML						
MAON	comp=N,698µm,0.8s	AML	AML						
MAON	comp=N,986µm,1.2s	1.34	93	P	Pn	20 44	12.1	-0.7	
TRIV	Trivento	1.34	93	P	Pn	20 44	12.1	-0.7	
TRIV	comp=E,1575µm,0.8s	AML	AML						
TRIV	comp=N,1540µm,0.9s	AML	AML						
TRIV	comp=N,1655µm,0.9s	AML	AML						
TRIV	comp=N,1655µm,1.1s	AML	AML						
TRIV	comp=E,1575µm,1.2s	AML	AML						
TRIV	comp=N,1540µm,1.1s	AML	AML						
TRIV	comp=N,1540µm,1.1s	AML	AML						
MDAR	Monte D'Aria	1.36	12	P	Pn	20 44	12.7	-0.3	
ATTE	AVT- Monte Tez	1.37	348	P	Pn	20 44	13.1	0.0	
ATTE	comp=E,1865µm,0.5s	AML	AML						
ATTE	comp=N,1770µm,1.0s	1.37	317	P	Pn	20 44	12.9	-0.2	
ARCI	Arcidosso	1.37	317	P	Pn	20 44	12.9	-0.2	
ARCI	comp=E,524µm,0.7s	AML	AML						
ARCI	comp=N,498µm,1.6s	AML	AML						
ARCI	comp=N,496µm,1.2s	AML	AML						
ARCI	comp=N,498µm,0.4s	AML	AML						
ARCI	comp=E,566µm,0.7s	1.38	22	P	Pb	20 44	13.4	-0.5	
MNTP	Montappone	1.40	9	P	Pg	20 44	14.1	-1.1	
GAG1	Gagliole	1.40	9	P	Pn	20 44	13.1	-0.4	
SNTG	Esanatoglia	1.40	6	P	Pn	20 44	13.1	-0.4	
SNTG	comp=E,2180µm,1.2s	AML	AML						
SNTG	comp=E,2170µm,1.2s	AML	AML						
SNTG	comp=N,2000µm,0.8s	AML	AML						
SNTG	comp=N,1840µm,0.9s	1.41	142	P	Pn	20 44	13.4	-0.2	
IOCA	Ischia Osserva	1.41	142	P	Pn	20 44	13.4	-0.2	
IOCA	comp=E,9655µm,0.5s	AML	AML						
IOCA	comp=N,8175µm,0.5s	1.41	353	Pn	Pn	20 44	13.7	+0.1	
MURB	Monte Urbino	1.41	353	P	Pn	20 44	13.7	+0.1	
MURB	comp=E,5860µm,0.4s	AML	AML						
MURB	comp=E,6195µm,0.4s	AML	AML						
MURB	comp=N,4785µm,1.1s	AML	AML						
MURB	comp=E,6195µm,1.6s	AML	AML						
MURB	comp=E,5860µm,1.6s	AML	AML						
MURB	comp=N,4700µm,1.0s	1.41	102	P	Pg	20 44	13.9	-1.5	
BSSO	Busso	1.41	102	P	Pg	20 44	13.9	-1.5	
BSSO	comp=E,708µm,1.1s	AML	AML						
BSSO	comp=N,657µm,1.0s	AML	AML						
BSSO	comp=N,657µm,1.0s	AML	AML						
IFOR	Ischia Forio P	1.42	144	P	Pn	20 44	13.0	-0.7	
IFOR	comp=N,3035µm,0.4s	AML	AML						
IFOR	comp=E,2125µm,1.0s	AML	AML						
IFOR	comp=N,3035µm,1.6s	1.42	143	P	Pn	20 44	13.1	-0.6	
IMTC	Ischia Forio M	1.42	143	P	Pn	20 44	13.1	-0.6	
IMTC	comp=N,4140µm,0.4s	AML	AML						
IMTC	comp=N,4140µm,0.4s	AML	AML						
PTRJ	Pietraraja	1.42	110	P	Pb	20 44	13.5	-1.1	
FOSV	Fossato di Vic	1.43	0	P	Pn	20 44	13.7	-0.3	
FOSV	comp=E,2380µm,0.8s	AML	AML						
FOSV	comp=N,1655µm,1.3s	AML	AML						
FOSV	comp=N,1655µm,0.7s	1.43	85	P	Pb	20 44	13.7	-1.1	
FRES	Fresagrandinar	1.43	85	P	Pb	20 44	13.7	-1.1	
FRES	comp=E,1300µm,0.9s	AML	AML						
FRES	comp=N,646µm,1.1s	AML	AML						
FRES	comp=E,1300µm,1.1s	AML	AML						
FRES	comp=N,646µm,0.9s	1.46	346	P	Pn	20 44	14.1	-0.2	
ATVA	AVT- Monte Val	1.46	346	P	Pn	20 44	14.1	-0.2	
CPOZ	Campi Flegrei,	1.46	135	P	Pn	20 44	13.6	-0.6	
CPOZ	comp=E,1020µm,1.1s	AML	AML						
CPOZ	comp=E,1020µm,0.9s	AML	AML						
CPOZ	comp=N,3220µm,0.5s	1.47	134	P	Pn	20 44	13.9	-0.4	
CSFT	Campi Flegrei,	1.47	134	P	Pn	20 44	13.9	-0.4	
CSFT	comp=E,6825µm,0.3s	AML	AML						
CSFT	comp=N,6770µm,0.3s	AML	AML						
CSFT	comp=E,6825µm,1.7s	1.48	350	P	Pn	20 44	14.3	-0.2	
ATLO	AVT- Montelove	1.48	350	P	Pn	20 44	14.3	-0.2	
COLB	Campi Flegrei	1.48	134	P	Pn	20 44	14.2	-0.3	
COLB	comp=E,4015µm,1.1s	AML	AML						
COLB	comp=N,2915µm,0.9s	AML	AML						
COLB	comp=E,4015µm,0.9s	AML	AML						
COLB	comp=N,2915µm,1.1s	AML	AML						
EL6	Elicito	1.49	10	P	Pn	20 44	14.7	-0.1	
EL6	comp=E,4320µm,0.9s	AML	AML						
EL6	comp=N,3905µm,0.5s	AML	AML						
EL6	comp=E,4320µm,1.1s	AML	AML						
EL6	comp=N,3905µm,1.5s	1.51	16	P	Pb	20 44	15.4	-0.7	
TRE1	Treia	1.51	16	P	Pb	20 44	15.4	-0.7	
ATFO	Monte Foce - G	1.51	355	P	Pn	20 44	15.1	0.0	
ATFO	comp=E,1545µm,0.7s	AML	AML						
ATFO	comp=N,1775µm,0.6s	AML	AML						
ATFO	comp=E,1545µm,1.3s	1.52	346	P	Pb	20 44	15.5	-0.7	
ATMI	Monte Migliano	1.52	346	P	Pb	20 44	15.5	-0.7	
ATMI	comp=E,3720µm,0.6s	AML	AML						
ATMI	comp=N,4370µm,0.5s	1.53	107	P	Pb	20 44	15.5	-1.1	
SACR	S. Croce Del S	1.53	107	P	Pb	20 44	15.5	-1.1	

SACR	comp=N,818µm,1.0s	AML	AML						
SACR	comp=N,814µm,0.8s	AML	AML						
SACR	comp=N,818µm,1.0s	AML	AML						
SACR	comp=E,1124µm,1.0s	AML	AML						
SACR	comp=N,814µm,1.2s	AML	AML						
SACR	comp=E,1155µm,1.0s	1.54	350	P	Pn	20 44	15.4	-0.1	
ATVO	AVT- Monte Val	1.54	350	P	Pn	20 44	15.4	-0.1	
ATVO	comp=E,1290µm,0.9s	AML	AML						
ATVO	comp=N,1505µm,0.7s	AML	AML						
ATVO	comp=E,1290µm,1.1s	1.55	12	P	Pb	20 44	16.0	-0.8	
CING	Cingoli	1.56	358	P	Pn	20 44	15.9	+0.2	
ATSC	Stegalia e Pas	1.56	358	P	Pn	20 44	15.9	+0.2	
VITU	Vitulano (BN)	1.56	115	P	Pn	20 44	15.2	-0.5	
VITU	comp=E,626µm,0.5s	AML	AML						
VITU	comp=N,1785µm,0.6s	AML	AML						
VITU	comp=N,1875µm,0.5s	AML	AML						
VITU	comp=E,1675µm,0.6s	1.57	1	P	Pn	20 44	16.0	+0.1	
SSFR	Montelago di S	1.57	1	P	Pn	20 44	16.0	+0.1	
SSFR	comp=N,1565µm,1.1s	AML	AML						
SSFR	comp=E,2415µm,0.2s	AML	AML						
SSFR	comp=N,1565µm,0.9s	AML	AML						
SSFR	comp=E,2380µm,0.3s	AML	AML						
CAFI	Monte Fiumicino	1.58	339	P	Pn	20 44	15.9	0.0	
CAFI	comp=N,2215µm,0.8s	1.58	339	P	Pn	20 44	15.9	0.0	
CAFI	comp=N,778µm,0.6s	AML	AML						
CAFI	comp=E,772µm,0.5s	1.59	6	P	Pb	20 44	16.9	-0.7	
MMUR	Monte Murano	1.59	121	Pn	Pn	20 44	15.5	-0.6	
PAOL	Paolisi	1.59	121	Pn	Pn	20 44	15.5	-0.6	
PAOL	comp=N,552nm,0.8s	AML	AML						
PAOL	comp=E,437nm,1.1s	1.59	121	P	Pn	20 44	15.6	-0.6	
PAOL	comp=N,1315µm,0.9s	AML	AML						
PAOL	comp=N,1385µm,0.9s	AML	AML						
PAOL	comp=N,1385µm,1.1s	AML	AML						
PAOL	comp=N,1315µm,1.1s	AML	AML						
PAOL	comp=E,1124µm,0.8s	AML	AML						
PAOL	comp=E,1134µm,0.8s	1.61	351	P	Pb	20 44	17.1	-0.7	
ATPI	Pietralunga -	1.61	351	P	Pb	20 44	17.1	-0.7	
ATPI	comp=N,1095µm,0.8s	AML	AML						
ATPI	comp=N,1105µm,0.8s	AML	AML						
ATPI	comp=E,1380µm,0.7s	1.61	129	P	Pn	20 44	16.5	+0.1	
OVO	Vesuviano	1.61	129	P	Pn	20 44	16.5	+0.1	
OVO	comp=N,3005µm,0.8s	AML	AML						
OVO	comp=N,3230µm,0.9s	1.62	355	P	Pb	20 44	17.3	-0.8	
ATBU	Serra Bufone	1.62	97	P	Pb	20 44	17.3	-0.8	
CIGN	Sant'Elia a Pi	1.62	97	P	Pb	20 44	17.3	-0.8	
CIGN	comp=E,615µm,1.1s	AML	AML						
CIGN	comp=N,453µm,0.5s	1.62	129	P	Pn	20 44	16.1	-0.4	
VVDG	Vesuvio Valle	1.62	129	P	Pn	20 44	16.2	-0.4	
VBKN	Vesuvio Bunker	1.63	129	P	Pn	20 44	16.2	-0.4	
CRTO	Cratere Ovest,	1.63	129	P	Pn	20 44	16.6	-0.3	
ATPC	Poggio Castell	1.63	352	P	Pn	20 44	16.6	-0.1	
VCRE	Vesuvio Crater	1.64	129	P	Pn	20 44	16.6	-0.2	
VCRE	comp=E,365µm,0.8s	AML	AML						
VCRE	comp=N,3860µm,0.6s	1.64	345	P	Pn	20 44	17.3	+0.6	
ATMC	Monte Cedrone	1.64	129	P	Pn	20 44	16.5	-0.2	
VTIR	Vesuvio Tiro	1.64	129	P	Pn	20 44	16.5	-0.2	
VTIR	comp=N,1033µm,0.7s	AML	AML						
VTIR	comp=N,1500µm,0.9s	1.64	5	P	Pb	20 44	17.5	-0.8	
ARVD	Arcevia	1.64	5	P	Pb	20 44	17.5	-0.8	
ARVD	comp=E,1405µm,1.1s	AML	AML						
ARVD	comp=N,1026µm,1.4s	AML	AML						
ARVD	comp=N,1026µm,0.6s	AML	AML						
ARVD	comp=E,1405µm,0.9s	1.64	22	P	Pb	20 44	17.3	-1.0	
PP3	Marolino	1.65	101	P	Pb	20 44	18.2	-1.7	
GATE	Gambatesa	1.65	101	P	Pb	20 44	17.5	-1.3	
PSB1	Pescosannita	1.67	112	P	Pb	20 44	16.8	-0.3	
R									

23d 20h

Table with columns for station name, frequency, power, and other technical details. Includes stations like MORSI, AGLI, ZCCA, DGI, etc.

2019 JUN

Table with columns for station name, frequency, power, and other technical details. Includes stations like CLUD, PRED, CALF, KOSI, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like MDVR, ZAGS, MODS, HINP, etc.

Additional information and notes at the bottom right, including coordinates and technical specifications.



23d 21h

Table with columns: BRTR, WRA, ASAR, ESDC, GSPA, SNAAL, Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Keskin Array B, Warramunga Arr, Alice Springs, Sonseca Array, South Pole Qui, Sanae.

WEL 23 21:19:07.1, 0.7, 31'S, 6.178'E, 11.1, h33km, M4.8/6, ML5.0/9, MLV4.8/6, Error ellipse: s-maj=15.8km s-min=3.5km az=118.0, confirmed, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Green Lake, Raoul Island, Waiteke Island, Pakihiroa, Raukumara Rang, Tauwhareparea, Urewera, Carnagh Statio, Takaraka, Rawiri, Murupara, Rimuhau, Shannon Statio, Paritu Road, Maungataniwha, Aarahi, Mahia Peninsul, Naumai, Kereru, Kahurangi, Puhenui, Takapari Road, Dannevirke, Mangatoinaka R.

NEIC 23 21:26:32.7, 1.2, 20.5S, 0.1x178.1W, 0.1, h54km, 8km, mb4.3/38, Error ellipse: s-maj=18.5km s-min=16.8km az=179.0

DC 23 21:26:34.2, 3.7, 20.49S, 178.28W, h559km, 41km, mb3.5/13, mbtmp4.4/13, Error ellipse: s-maj=17.7km s-min=14.9km az=90.0

ISC 23 21:26:31.5, 0.4, 20.47S, 10.1078.13W, 0.08, h534km, n147.1, s121/144, mb4.3/35, 18C-9D, Fiji Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Nonsavu, Pines Island, Mont Dzumac, Raratonga, Urewera, Quartz Range, Port Moresby, Alice Springs, Warramunga Arr, Vanda, South Pole Qui, Matushiro Arr, Petropavlovsk, Minna Array Bea, Fort Rock, Wickenburg, Pine Mountain, Patroch Range, Timber Creek, Wild Horse Val, Muroto, Ohwah River, Holitna River, Neilton Look, Neilton.

2019 JUN

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like K15K, L18K, L19K, CAST, VHRN, MNTX, BSUT, TX31, TXAR, L19K, M27K, ALPN, TROLL, H21K, MCMT, CCB, SNAAL, VNA3, ILAR, VNA2, K27K, J26L, PDAR, E19K, D19K, CMAR, D20K, C19K, E22K, G26K, D22K, MKAR, KURBB, BVAR, ARTI, AKTO, ARCES, FINES, NB2, NOA, HFS, BOM, HORB, ONAU, FABU, BLEU, AKASO, AKABB, KIEV, DEL, BJUU, LJUN, EKA, SORM, MILM, B131, BRTR, KIRS, TLCR, BURR, CFR, VRI, PLOR, HARR, MMAL, TURR, OSTC, CHVC, STEB, CLL, UPC, DPC, DOPR, MLR, KRLC, BRG, VOIR, PRU, ARR, WRAC, JYVC, KRUC, TREC, ZVC, GZB, KHC, BZS, GERES.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like GERES, HERR, CONA, RONA, MORH, MOA, BIOA, BOVS, WESA, WATA, RETA, WTTA, MOTA, MYKA, SQTA, ABTA, DAVA, FETA, CIMO, ESDC, KEST, RABL, RABL, I40PG, MANU, PMG, HNR, PATS, GUMO, FAKI, DZM, DZM, WB0, WR8, WRAB, WRA, WRA, KNRA, KNRA, ASAR, ASAR, ASAR, STKA, BATI, FITZ, KAPI, JOW, NIUE, URZE, RTZ, BKZ, MRNZ, THZ, TCW, TUWZ, FOF, LTZ, RPZ, GYZ, JNU, LBZ, LBZ, MJAR, KSRS, KLR, KLR, PEAOB, PEAOB, PETK, PETK, CMAR.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like Dumont d'Urville, Songo Array, Vanda, Bethel, etc.

NEIC 23 21:40:14.8 ± 1.2, 6.78S; 0.09; 154.81E ± 0.08, h10km, 1km, mb4.5/29, Error ellipse: s-maj=15.2km s-min=11.7km az=30.0

IDC 23 21:40:24.3 ± 2.1, 6.84S; 154.56E, h92km, 20km, mb3.7/14, mbtmp4.1/16, MS3.6/5, Error ellipse: s-maj=16.8km s-min=13.3km az=171.0

ISC 23 21:40:19.7 ± 0.5, 6.75S; 0.07; 154.78E ± 0.07, h56km, n59, s140/60, mb4.2/29, MS3.5/4, Bougainville-Solomon Islands region

Main station list table for the left column, including codes like RABL, CTAO, DZM, WB0, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like Eielson Array, South Pole Qui, Makanchi, etc.

UPP 23 22:04:07.0 ± 0.7, 18N; 20.64E, h0km, ML1.6, Unknown HEL 23 22:04:08.2 ± 0.4, 6.7; 16N; 20.62E, h0km, ML1.3, Explosion IDC 23 22:04:30.3 ± 1.0, 6.7; 18N; 20.93E, h0km, mbtmp2.5/4, ML1.7/4, Error ellipse: s-maj=15.8km s-min=8.1km az=117.0

ISC 23 22:04:06.8 ± 0.6, 6.7; 18N; 20.74E ± 0.03, h0km, n23, s189/34, Sweden

Main station list table for the middle column, including codes like DUNU, MASU, RATU, etc.

RSNC 23 12:04:59.0 ± 0.1, 11N ± 1.7, 74W ± 1.1, h11km ± 2km, M3.2, mb4.3, mb4.9, ML2.8, Mw(mb)4.2, Near north coast of Colombia

Main station list table for the bottom middle column, including codes like SMRC, CRUC, ARGC, etc.

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like La Rusia, Pablo de B, SPBC, etc.

IDC 23 22:26:58.7 ± 1.6, 10.51S × 113.69E, h0km, mb3.8/10, mbtmp3.9/12, ML3.8/2, MS2.9/2, Error ellipse: s-maj=53.0km s-min=17.7km az=44.0 NEIC 23 22:26:59.9 ± 1.8, 10.50S; 0.05; 113.66E ± 0.08, h10km, 1km, mb4.6/19, Error ellipse: s-maj=13.9km s-min=12.0km az=231.0

DJA 23 22:26:59.0 ± 0.5, 11.1S; 114.4E ± 1.1, h10km, M4.3/12, mb4.5/4, ML4.2/12

ISC 23 22:27:01.0 ± 0.5, 10.50S; 0.05; 113.70E ± 0.05, h23km, n58, s133/57, mb4.2/18, South of Java

Main station list table for the right column, including codes like JAGI, GMJI, SRBI, etc.

NEIC 23 22:39:08.3 ± 1.8, 40.30N; 0.01; 125.03W ± 0.04, h10km, 1km, Error ellipse: s-maj=5.7km s-min=2.9km az=82.0 NCEDC 23 22:39:10.8 ± 1.9, 40.32N; 0.22; 38.77W ± 0.04, h12km, 4km, Mw3.9, mb3.8/8(NEIC), ML3.6/9(NEIC), Error ellipse: s-maj=5.0km s-min=3.0km az=69.0

IDC 23 22:39:11.0 ± 1.5, 40.44N; 124.61W, h0km, mb3.3/5, mbtmp3.3/9, ML3.6/4, MS3.2/16, Error ellipse: s-maj=19.4km s-min=13.7km az=73.0

ISC 23 22:39:09.8 ± 1.8, 40.32N; 0.04; 124.83W ± 0.07, h6km ± 11km, n157, s113/138, mb3.7/5, MS3.2/12, Near coast of northern California

23d 23h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists various stations and their associated data points.

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists various stations and their associated data points.

1430

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists various stations and their associated data points.

IDC 23:22:43.41, 8t, 7.1, 31.825s, 179.59W, h160km, 54km, mb3.5/4, mbmp3.9/5, Error ellipse: s-maj=63.0km s-min=21.3km az=48.0

WEL 23:22:43.46, 1t, 1.2, 32.2s, 12.180E, 2.5, h33km, M4.5/6, mB4.7/3, ML4.8/6, MlnV4.5/6, Mw(m)B4.0/3, Error ellipse: s-maj=35.3km s-min=4.2km az=114.5, confirmed

ISC 23:22:45.30, 0.9, 31.925s, 0.09, 179.9W, 0.2, h200km, n27, r180/34, mb3.6/4, Kermadec Islands region

NEIC 23:22:45.28, 9, 1, 0, 25.65S, 0.1, 179.5E, 0.1, h500km, 8km, mb4.1/1.2, Error ellipse: s-maj=23.1km s-min=7.8km az=129.0

IDC 23:22:45.29, 7, 2, 1, 25.52S, 179.54E, h512km, 22km, mb3.1/8, mbmp4.0/10, Error ellipse: s-maj=23.1km s-min=16.8km az=93.0

ISC 23:22:45.29, 1, 0, 5, 25.60S, 179.6E, 0.1, h507km, n52, o594/47, mb3.6/15, 4d, South of Fiji Islands

CATAC 23:23:05.37, 7, 0, 9, 13.1N, 5.8W, h18km, 6km, M3.6/8, ML3.6/8, Error ellipse: s-maj=10.8km s-min=6.3km az=22.0, confirmed

NET 23:23:05.37, 9, 1, 0, 13.04N, 89.47W, h32km, 2km, ML3.3





B20K	Meade River	61.80	19	P	P	23 33 05.4 +0.8	baz=244
BPBW	Bear Paw Mtn.	61.94	26	I	Amb	23 33 07.3	comp=Z,14nm,1.0s
BPBW	Bear Paw Mtn.	61.94	26	P	P	23 33 06.2 +0.5	baz=254,SNR=15
F21K	Alatna River	61.95	23	P	P	23 33 06.3 +0.5	baz=250
TRF	Thorofore Moun	62.06	27	P	P	23 33 06.9 +0.2	baz=255
PMR	Palmer	62.12	29	I	Amb	23 33 06.8 -0.1	comp=Z,15nm,1.2s
PMR	Palmer	62.12	29	P	P	23 33 07.5	baz=257,SNR=6.5
C21K	Knifeblade Rid	62.21	20	P	P	23 33 06.2 +0.7	baz=247,SNR=5.6
E21K	Killik River	62.21	21	P	P	23 33 07.9 +0.4	baz=245,SNR=15
KDJ	Kajisay	62.26	308	P	P	23 33 08.8 +0.3	comp=Z,10nm,0.8s
GHO	Glory Hole Cre	62.26	29	I	Amb	23 33 08.8	comp=Z,8.0nm,0.7s
MLY	Manley	62.31	25	I	Amb	23 33 09.8	baz=253,SNR=15
MLY	Manley	62.31	25	P	P	23 33 08.7 +0.4	comp=Z,11nm,0.8s
H22K	Ishatitna Cre	62.31	24	P	P	23 33 09.5 +1.3	baz=257
PWL	Port Wells	62.34	30	P	P	23 33 09.1 +0.6	baz=258
PWL	Port Wells	62.34	30	P	P	23 33 09.4 +1.0	comp=Z,9.6nm,0.8s
KNK	Knik Glacier	62.40	30	P	P	23 33 09.7 +0.9	baz=260,SNR=10.0
BN1H	Ikpikpuk River	62.45	20	I	Amb	23 33 09.5	PNZH
B21K	Ikpikpuk River	62.45	20	P	P	23 33 09.8 +0.9	TSZ
SML	Sawmill	62.54	29	P	P	23 33 10.0 +0.1	NNZ
G22K	Bettles	62.58	23	P	P	23 33 11.0 +1.1	PRP
P23K	Montague Islan	62.62	31	P	P	23 33 11.4 +1.1	G25K
P23K	Montague Islan	62.62	31	P	P	23 33 10.8 +0.5	H25L
WAT1	Susitna Watana	62.67	28	P	P	23 33 10.5 -0.2	GLB
MCK	McKinley	62.72	27	P	P	23 33 11.5 +0.5	GLB
D22K	Aiyikay River	62.81	21	P	P	23 33 12.5 +1.0	GLB
M23K	Glacier View	62.82	29	P	P	23 33 11.8 +0.2	GLB
E22K	Anaktuvuk Pass	62.86	22	I	Amb	23 33 13.7	KAHZ
E22K	Anaktuvuk Pass	62.86	22	P	P	23 33 12.4 +0.6	VRDI
NEA2	Nenana	62.88	26	I	Amb	23 33 12.4	VRDI
NEA2	Nenana	62.88	26	P	P	23 33 12.7 +0.7	DVHZ
A22K	Sinclair Lake	62.88	18	P	P	23 33 12.2 +0.4	DOT
I23K	Minto, Yukon-K	62.90	25	I	Amb	23 33 13.9	DOT
I23K	Minto, Yukon-K	62.90	25	P	P	23 33 12.5 +0.4	THZ
GLI	Glacier Island	62.93	30	P	P	23 33 13.0 +0.6	THZ
GLI	Glacier Island	62.93	30	P	P	23 33 12.4 0.0	CRQE
WAT6	Susitna Watana	62.98	28	P	P	23 33 12.9 0.0	CRQE
H23K	Yukon River	63.01	25	I	Amb	23 33 14.7	TCW
H23K	Yukon River	63.01	25	P	P	23 33 14.1 +1.3	MRZ
SCM	Sheep Creek Mo	63.01	29	P	P	23 33 13.4 +0.4	FYU
Q23K	Middletown Isla	63.04	32	P	P	23 33 14.4 +1.4	FYU
G23K	Bananza Creek	63.08	24	P	P	23 33 14.5 +1.3	SCRK
B22K	Teshpekuk Lake	63.10	19	P	P	23 33 14.4 +1.1	SCRK
HIN	Hinchinbrook I	63.13	31	P	P	23 33 14.7 +1.0	SCRK
HIN	Hinchinbrook I	63.13	31	I	Amb	23 33 15.3	SCRK
COLD	Coldfoot	63.16	23	P	P	23 33 14.9 +1.1	SCRK
BOOM	Boomskeye usch	63.17	309	P	P	23 33 14.7 +0.2	SCRK
DHY	Denali Highway	63.25	28	P	P	23 33 15.7 +1.0	SCRK
WRH	Wood River Hill	63.26	26	P	P	23 33 14.2 -0.3	SCRK
D23K	Nanushuk River	63.52	21	I	Amb	23 33 18.5	SCRK
D23K	Nanushuk River	63.52	21	P	P	23 33 17.6 +1.5	SCRK
EYAK	Cordova Ski Ar	63.52	31	P	P	23 33 17.2 +1.0	SCRK
WTVZ	West Tongariro	63.58	155	P	P	23 33 17.4 +0.4	SCRK
M24K	Toisona, Glenn	63.60	29	P	P	23 33 18.3 +1.4	SCRK
M24K	Toisona, Glenn	63.60	29	P	P	23 33 18.1 +1.3	SCRK
NNVZ	North Ngauruho	63.60	155	P	P	23 33 17.6 +0.4	SCRK
KLU	Klutina	63.60	30	I	Amb	23 33 18.5	SCRK
KLU	Klutina	63.60	30	P	P	23 33 17.8 +0.9	SCRK
E23K	Chandalar	63.62	22	I	Amb	23 33 19.1	SCRK
E23K	Chandalar	63.62	22	P	P	23 33 18.0 +1.1	SCRK
NGZ	Ngauruhoe	63.63	155	P	P	23 33 17.4 +0.1	SCRK
OTVZ	Oturere	63.65	155	P	P	23 33 18.0 +0.5	SCRK
SNVZ	South Ngauruho	63.65	155	P	P	23 33 17.7 +0.1	SCRK
H24K	Noodor Dome	63.68	25	I	Amb	23 33 18.4	SCRK
H24K	Noodor Dome	63.68	25	P	P	23 33 18.0 +0.7	SCRK
FWVZ	Far West T-bar	63.68	155	P	P	23 33 17.8 0.0	SCRK
TRVZ	Turoa	63.72	155	P	P	23 33 18.1 0.0	SCRK
WHVZ	Whangaeahu Hut	63.72	155	P	P	23 33 18.2 +0.2	SCRK
HDA	Harding Lake	63.73	27	I	Amb	23 33 17.5	SCRK
HDA	Harding Lake	63.73	27	P	P	23 33 17.2 -0.4	SCRK
RTZ	Ruatatuna	63.74	153	P	P	23 33 16.9 -1.1	SCRK
RTZ	Ruatatuna	63.74	153	P	P	23 33 16.8 -1.2	SCRK
MWZ	Matawai	63.74	153	P	P	23 33 16.6 -1.3	SCRK
TOLK	Toolik Lake Re	63.81	22	I	Amb	23 33 19.9	SCRK
TOLK	Toolik Lake Re	63.81	22	P	P	23 33 19.2 +1.2	SCRK
C23K	Iklikik River	63.83	20	P	P	23 33 19.2 +1.2	SCRK
IL31	comp=Z,8.0nm,1.1s	63.83	26	I	Amb	23 33 18.2	SCRK
ILAR	Eielson Array	63.83	26	P	P	23 33 17.2 -1.0	SCRK
ILAR	Eielson Array	63.83	26	P	P	23 33 56.1 -0.4	SCRK
QRZ	Quartz Range	63.88	158	P	P	23 33 19.0 +0.2	SCRK
MOVZ	Moawhango	63.89	155	P	P	23 33 18.4 -0.6	SCRK
BKZ	Black Stump Fm	63.93	154	P	P	23 33 18.8 -0.8	SCRK
BKZ	Black Stump Fm	63.93	154	P	P	23 33 18.4 -1.2	SCRK
RAGM	Ragged Mountai	64.03	31	P	P	23 33 20.3 +0.7	SCRK
RAGM	Ragged Mountai	64.03	31	I	Amb	23 33 20.8	SCRK
E24K	Your Creek	64.03	22	I	Amb	23 33 21.4	SCRK
E24K	Your Creek	64.03	22	P	P	23 33 20.5 +1.0	SCRK
G24K	Hadweenzic Riv	64.05	24	I	Amb	23 33 21.5	SCRK
G24K	Hadweenzic Riv	64.05	24	P	P	23 33 20.4 +0.8	SCRK
NMHZ	Naumai	64.07	154	P	P	23 33 20.4 +0.3	SCRK
PAX	Paxson	64.08	28	I	Amb	23 33 21.2	SCRK
PAX	Paxson	64.08	28	P	P	23 33 20.5 +0.6	SCRK
KAIM	Kayak Island	64.08	32	P	P	23 33 21.1 +1.2	SCRK
KAIM	Kayak Island	64.08	32	P	P	23 33 20.9 +1.0	SCRK
F24K	Squaw Lake	64.10	23	I	Amb	23 33 22.1	SCRK
F24K	Squaw Lake	64.10	23	P	P	23 33 21.0 +1.0	SCRK
HARP	HAARP	64.12	29	P	P	23 33 21.0 +0.8	SCRK
BMRM	Bremner River	64.15	31	P	P	23 33 21.2 +0.7	SCRK
BMRM	Bremner River	64.15	31	I	Amb	23 33 22.8	SCRK
BMRM	Bremner River	64.15	31	P	P	23 33 21.1 +0.7	SCRK
D24K	Happy Valley	64.22	21	P	P	23 33 21.7 +1.1	SCRK
HMT	Hamilton	64.22	31	P	P	23 33 21.8 +1.0	SCRK
HMT	Hamilton	64.22	31	I	Amb	23 33 22.5	SCRK
N25K	Chitina, Valde	64.25	30	I	Amb	23 33 22.9	SCRK
N25K	Chitina, Valde	64.25	30	P	P	23 33 22.0 +0.9	SCRK
KRHZ	Kereru	64.34	154	P	P	23 33 20.6 -1.2	SCRK
DUWZ	D'Urville Isla	64.37	157	P	P	23 33 21.3 -0.7	SCRK
SUCK	Suckling Hills	64.42	32	P	P	23 33 23.5 +1.3	SCRK
J25K	Salcha River,	64.44	26	P	P	23 33 21.7 -0.6	SCRK
MRNZ	Matariki Terra	64.47	158	P	P	23 33 22.6 0.0	SCRK
RIDG	Independent Ri	64.50	27	I	Amb	23 33 22.9 +0.2	SCRK
RIDG	Independent Ri	64.50	27	P	P	23 33 23.7	SCRK
RIDG	Independent Ri	64.50	27	P	P	23 33 22.9 +0.2	SCRK
PNHZ	Takapari Road	64.50	155	P	P	23 33 21.4 -1.5	SCRK
TSZ	Takapari Road	64.53	155	P	P	23 33 21.9 -1.2	SCRK
NNZ	Nelson	64.53	157	P	P	23 33 22.2 -0.7	SCRK
PRP	Porcupine Dome	64.56	25	P	P	23 33 23.8 +0.7	SCRK
G25K	Bearman Lake	64.60	24	P	P	23 33 23.9 +0.7	SCRK
H25L	Birch Creek	64.60	25	P	P	23 33 24.1 +1.0	SCRK
GLB	Gilahina Butte	64.60	30	I	Amb	23 33 24.3 +1.0	SCRK
GLB	Gilahina Butte	64.60	30	P	P	23 33 25.5	SCRK
KAHZ	Kahuranki	64.68	154	P	P	23 33 23.4 -0.7	SCRK
VRDI	Vepe Repeater	64.74	30	I	Amb	23 33 25.8	SCRK
VRDI	Vepe Repeater	64.74	30	P	P	23 33 25.8	SCRK
DVHZ	Dannevirke	64.81	155	P	P	23 33 23.4 -1.5	SCRK
DOT	Dot Lake	64.83	28	I	Amb	23 33 25.7	SCRK
THZ	Tophouse	64.84	158	P	P	23 33 24.7 -0.3	SCRK
THZ	Tophouse	64.84	158	P	P	23 33 24.7 -0.3	SCRK
CRQE	Cirque	64.85	31	P	P	23 33 25.7 +0.6	SCRK
TCW	Tory Channel	64.86	157	P	P	23 33 24.4 -0.7	SCRK
MRZ	Mangatainokra	64.89	155	P	P	23 33 24.6 -0.7	SCRK
FYU	Fort Yukon	64.89	24	I	Amb	23 33 27.6	SCRK
SCRK	Sand Creek	64.92	27	I	Amb	23 33 26.5	SCRK
SCRK	Sand Creek	64.92	27	P	P	23 33 25.6 +0.1	SCRK
SCRK	Sand Creek	64.92	27	I	Amb	23 33 27.7	SCRK
F25K	Christian River	64.96	23	P	P	23 33 26.5 +0.9	SCRK
MCARA	McCarthy VSAT	64.97	30	P	P	23 33 26.4 +0.8	SCRK
L26K	Log Cabin Wild	65.05	28	P	P	23 33 26.9 +0.8	SCRK
H26K	Holdsword Sta	65.06	156	P	P	23 33 25.3 -1.2	SCRK
D25K	Kavik River	65.10	21	I	Amb	23 33 28.2	SCRK
D25K	Kavik River	65.10	21	P	P	23 33 26.6 +0.2	SCRK
E25K	Arctic Village	65.10	23	P	P	23 33 27.7 +1.2	SCRK
M26K	Nabesna, AK	65.12	29	P	P	23 33 27.3 +0.6	SCRK
J26L	Joseph Creek	65.19	27	I	Amb	23 34 07.3	SCRK
J26L	Joseph Creek	65.19	27	P	P	23 33 27.0 -0.1	SCRK
WVZ	Wattai Valley	65.27	16				



Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error. Includes stations like J14K, B20K, G17K, F18K, D19K, HFS, M13K, L14K, A22K, H17K, H17K, H17K, D20K, D20K, K15K, K15K, J16K, J16K, G18K, G18K, F19K, E19K, E19K, M14K, M14K, E20K, B21K, NB2, NOA, C21K, H18K, H18K, B22K, B22K, NC204, G19K, N14K, N14K, J17K, J17K, F20K, F20K, F20K, M15K, E21K, O14K, H19K, H19K, L16K, D22K, D22K, K17K, N15K, N15K, L17K, C23K, M16K, F21K, J18K, J18K, H20K, O15K, O15K, S12K, E22K, E22K, N16K, G21K, G21K, D23K, F22K, IMAR, J19K, J19K, M17K, M17K, L18K, L18K, L18K, C24K, TOLK, TOLK, TOLK, D24K.

Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error. Includes stations like D24K, D24K, G22K, H21K, H21K, O16K, O16K, J20K, J20K, N17K, N17K, E23K, CLL, P16K, COLD, SDPT, M18K, K20K, K20K, O17K, H22K, S14K, L19K, L19K, L19K, E24K, G23K, G23K, GERES, D25K, D25K, D25K, L20K, P17K, CNBA, F24K, F24K, Q16K, MLY, MLY, H23K, H23K, CAST, N19K, N19K, N19K, O18K, O18K, BPAW, BPAW, C27K, C27K, M20K, M20K, P18K, E25K, E25K, G24K, G24K, I23K, I23K, I23K, Q17K, F25K, F25K, H24K, NEA2, NEA2, NEA2, G25K, SKT, SKT, SKT, BMAR, F26K, F26K, EUNU, EUNU, H25L, CCB, O20K, Q19K, CUT, SUA, SUA, IL31, ILAR.

Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error. Includes stations like G26K, G26K, CHIR, E27K, E27K, PRP, PRP, WAT1, Q20K, E28M, E28M, RC01, PMR, PMR, CNPM, CNPM, DHY, DHY, OHAK, OHAK, J25K, J25K, WAT6, BRSE, KDAK, KDAK, G27K, G27K, SML, SML, K24K, F28M, F28M, M23K, I26K, I26K, E29M, E29M, H27K, H27K, SCM, SCM, SCM, PWL, PWL, RIDG, RIDG, J26L, J26L, PAX, PAX, SCRK, SCRK, I27K, M24K, M24K, GLJ, G29M, G29M, KLU, A36M, A36M, FID, FID, I28M, K27K, K27K, F30M, F30M, F30M, H29M, H29M, HIN, N25K, INK, G30M, G30M, G30M, EYAK, M26K, EPYK, L27K, BMRM, BCAR, Q23K, DAWY, G31M, M27K, MCARA, KAIM, BERG, I30M, BVCY.









Table with columns: Station ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like MDOK Medeo, AAA Alma-Ata, K20K Telida, etc.

Table with columns: Station ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like SUA Susitna One, MLY Manley, BTL BSLS, etc.

Table with columns: Station ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like H24K Noodor Dome, F24K Squaw Lake, COLA College, etc.







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Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes stations like RDMU Red Mountain, HUMR Humele, Q16A Castle Valley, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes stations like CLL White River, BLYC Blythe, O20A White River, etc.

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other details. Includes stations like ISCO Idaho Springs, NRS Narsarsuaq, PYZ Puyseg Point, etc.



Table with columns: Station Name, Frequency, Mode, Direction, Date/Time, and other details. Includes stations like DOUR, TRINIDAD, DUNE, DAVA, ANMO, SPUM, FLOREN, DAVOX, BGNE, 319A, TEOL, etc.

Table with columns: Station Name, Frequency, Mode, Direction, Date/Time, and other details. Includes stations like X34A, HDIL, TX31, TXAR, H49A, TUL3, WTF5, L46A, ABTX, HPIG, RLO, RLO, U38A, OZNA, P43A, SAND, HHAR, FW03, CCM, CCM, MGMO, Z35A, LMQ, FW06, FW07, N47A, Q44A, FVM, DELO, BRDY, JCT, FW13, FW14, DRIO, OLIL, N48A, WHTX, MNTQ, FCAR, S44A, SIUC, CGM3, MIAR, WHAR, ACSSO, WCI, WCI, KEST, KEST, T47A, R50A, WVT, WVT, O54A, T50A, S51A, PBRG, PGAV, PCAB, MVO, MVO, POLO, POLO, ESDC, ESDC, MTE, MTE.

Table with columns: Station Name, Frequency, Mode, Direction, Date/Time, and other details. Includes stations like MTE, COI, PMRV, PSBE, HODGE, PMOZ, MAW, TORD, KDWAN, GSPA, BOSA, SYO, SYO, DBIC, SDV, SDV, ROSC, OTAV, OTAV, ATAH, SNA, SNA, SNA, NNA, VNA2, VNA3, VNA1, ITTB, H03N2, H03N3, H03N1, LPAZ, LPAZ, LPAZ, BDFB, BDFB, TRQA, CPUP, SOME 24.00, SRNET 24.00, Central Kazakhstan.

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like YJA Yavi, SALTA SLA San Lorenzo, LOMAS DE OLMED, IPOC Station P, etc.

Table with columns: FETY, Fethiye, IZZE, Mula-Seydike, 1.78 59 P, Pg, 00 26 40.1 -1.4, etc.

Table with columns: HRFI, Mount Harif, 8.70 128 S, Sn, 00 29 47.7 -2.1, etc.

ISC 24 00:26:05.1s 1.0, 35:80N:27.18E, h0km, mb3.8/7, mbtmp3.7/13, ML3.4/7, Error ellipse: s-maj=21.9km

ISK 24 00:26:06.7s 35:77N:27.07E, h8km, ML3.5/31, s-min=14.9km, aza=179.0

ATH 24 00:26:06.1s 35:80N:27.20E, h8km, 2km, ML3.3/17, Manual Solution by M.Kolligri First location: 2019/06/24

AFAD 24 00:26:07.8s 35:87N:27.19E, h13km, 1km, MW3.7, THE 24 00:26:07.1s 36°N:27°E, h6km, 6km, M3.2/11, MLh3.2/11

GII 24 00:26:08.2s 0.0, 35:300N:0.003:27.279E:0.001, h1km, MWS3.5, confirmed

ISC 24 00:26:07.0s 35.73N:02.27:19E:0.02, h18km, 4km, n156, r125/192, mb3.6/7, Dodecanese Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like KARP Karpathos, ARG Arkhangelos, YAZI Mula-Daişa, ZKR Zakros, etc.

Table with columns: ELL, Elmal, APMY, Acipayam-Denis, GOLH, Golhisar, 2.42 64 Pn, Pb, 00 26 48.9 -1.4, etc.

ISC 24 00:30:29.0s 0.6, 6:80N:72.95W, h161km, 6km, mb3.6/9, mbtmp4.2/13, MS2.8/2, Error ellipse: s-maj=16.2km

RSNC 24 00:30:30.0s 0.0, 7°N:1°7'3"W, h154km, 1km, M4.2, mb4.9, mb4.7, ML3.9, MW(m)4.2

NEIC 24 00:30:41.4s 2.1, 8°N:0.1°7'3"W:0.1, h126km, 11km, mb4.4/49, Error ellipse: s-maj=20.1km s-min=17.6km aza=209.0

ISC 24 00:30:28.9s 0.5, 6:84N:0.03:73:07W:0.03, h156km, 4km, n110, r1910/137, mb4.3/30, Northern Colombia

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like BARC Barichara, PAMC Pamplona, BRJC Barrancabermej, etc.



h28km:pp-P,1807,0175/1599,m5.9/341,MS6.3/453, 72C-41D,Irian Jaya

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, and various station identifiers like SMPI, GEM, GEN, JAY, etc.

Table with columns: KAPI, Kapping, P, Pn, Pmax, and various station identifiers like KAPI, KAPPING, MRSI, BSI, etc.

Table with columns: LEM, Lembang, P, P, Pmax, and various station identifiers like LEM, BBJ, TPUB, etc.

JGN	Niukaw	38.79	358	P	P	01 12 49.9	-1.2
GLAD	Gladstone	38.99	169	P	P	01 12 54.3	+1.7
GULI	GulIn	39.09	317	P	P	01 12 55.8	+2.1
GULI				PP	Pn	01 14 26.9	+0.6
GULI				S	Pn	01 18 58.9	+7.1
GULI	comp=Z,100nm,1.8s			Pmax	Pmax		
GULI	comp=Z,6µm,18.8s			LR	LR		
GULI	comp=Z,12µm,19.2s			LR	LR		
GULI	comp=Z,15µm,19.9s			LR	LR		
MJAR	Matsushiro Arr	39.09	359	P	P	01 12 52.0	-1.5
MJAR	comp=Z,1.1nm,0.6s,baz=179,slow=8.2,SNR=17			P	P	01 15 03.9	+0.8
MJAR	comp=Z,5.2nm,0.7s,baz=162,slow=2.4,SNR=4.5			P	P	01 18 52.2	+0.7
MJAR	comp=Z,9.1nm,0.9s,baz=167,slow=3.6,SNR=5.2			P	P		
MJAR	Matsushiro Arr	39.09	359	LR	LR	01 27 19.7	
MAJO	Matsushiro	39.09	359	P	P	01 12 52.8	-0.8
MAJO	Matsushiro	39.09	359	P	P	01 12 54.0	+0.4
MAJO	Matsushiro	39.09	359	P	P	01 12 52.8	-0.8
MAJO	comp=Z,199nm,1.6s			Pmax	Pmax		
MAJO	Matsushiro	39.09	359	P	P	01 12 51.0	-2.6
MAJO	Matsushiro	39.09	359	P	P	01 12 52.0	-1.6
MAT	Matsushiro	39.09	359	P	P	01 12 52.6	-1.0
MNSI	Mandailing Nat	39.20	275	P	P	01 12 53.8	-1.0
CORO	Coronation Par	39.28	170	P	P	01 12 57.5	+2.5
NJ2	Nanjing	39.38	333	P	P	01 12 56.3	+0.3
NJ2				sP	sP	01 13 08.6	+0.9
NJ2				S	S	01 15 05.0	-0.9
NJ2	comp=Z,170nm,2.5s			Pmax	Pmax		
NJ2	comp=Z,5µm,5.8s			LR	LR		
NJ2	comp=Z,14µm,17.5s			LR	LR		
NJ2	comp=Z,14µm,17.5s			LR	LR		
NJ2	comp=Z,28µm,20.5s			LR	LR		
CNSH	ChangSha	39.45	323	P	P	01 12 57.6	+0.9
CNSH				S	S	01 19 00.8	+3.7
CNSH	comp=Z,230nm,2.0s			Pmax	Pmax		
CNSH	comp=Z,9µm,17.8s			LR	LR		
CNSH	comp=Z,15µm,20.0s			LR	LR		
CNSH	comp=Z,19µm,23.4s			LR	LR		
SISI	Saibi	39.54	271	P	P	01 12 56.5	-1.1
RPSI	Rantau Prapat	40.06	277	Iamb	Iamb	01 13 04.6	
PSI	Prapat	40.07	278	P	P	01 13 01.4	-0.8
PSI	comp=Z,152nm,1.1s,baz=110,slow=6.1,SNR=38			P	P		
PSI	comp=Z,152nm,1.1s			LR	LR	01 32 12.3	
PSI	Prapat	40.07	278	LR	LR	01 13 01.8	-0.4
PSI	comp=Z,6µm,19.6s,baz=118,slow=38			P	P	01 13 01.8	-0.4
MOO	Moorlands	40.25	170	P	P	01 13 05.7	+2.6
TJN	Taejon	40.32	346	P	P	01 13 04.3	+0.5
TJN	Taejon	40.32	346	P	P	01 13 03.3	-0.5
WHN	Wuhan	40.41	327	P	P	01 13 05.6	+1.0
WHN				PP	PP	01 14 44.4	+2.5
WHN				S	S	01 19 15.8	+4.4
WHN				sS	sS	01 19 23.3	+4.1
WHN	comp=Z,2µm,1.7s			Pmax	Pmax		
WHN	comp=Z,13µm,3.6s			LR	LR		
WHN	comp=Z,16µm,16.3s			LR	LR		
WHN	comp=Z,18µm,14.5s			LR	LR		
WHN	comp=Z,42µm,17.0s			LR	LR		
JMM	Marumori	40.46	3	P	P	01 13 04.4	-0.5
JMM	comp=Z,226nm,1.3s			Iamb	Iamb	01 13 25.6	
JMM	Marumori	40.46	3	P	P	01 13 05.0	+0.1
JMM	Marumori	40.46	3	P	P	01 13 04.9	0.0
JMM	Marumori	40.46	3	P	P	01 13 04.3	-0.5
SRIT	Nakonsritamara	40.51	287	P	P	01 13 06.1	+0.4
SRIT	Nakonsritamara	40.51	287	P	P	01 13 06.3	+0.6
TSI	Tuntingan	40.52	279	P	P	01 13 06.2	+0.4
JSD	Sado	40.59	360	Iamb	Iamb	01 13 10.2	
JSD	comp=Z,600nm,2.0s			P	P	01 13 06.0	+0.1
JSD	Sado	40.59	360	P	P	01 13 05.3	-0.6
JSD	Sado	40.59	360	P	P	01 13 05.0	-0.9
TAU	Tasmania Unive	40.73	170	P	P	01 13 07.4	+0.4
TAU	Tasmania Unive	40.73	170	P	P	01 13 08.7	+1.7
TAU	Tasmania Unive	40.73	170	P	P	01 13 07.4	+0.4
TAU	comp=Z,252nm,1.6s			Pmax	Pmax		
TAU	comp=Z,7µm,20.0s			LR	LR		
FUNA	Tasmania Unive	40.73	170	P	P	01 13 09.4	+2.4
FUNA	Funafuti	40.75	100	Iamb	Iamb	01 13 08.7	+1.0
FUNA	comp=Z,363nm,1.4s			P	P	01 13 09.3	+1.6
FUNA	Funafuti	40.75	100	P	P	01 13 11.2	+0.7
KSAR	Wonju Array Be	41.22	347	P	P	01 13 11.4	+0.3
KSAR	Wonju Array Be	41.22	347	P	P	01 13 11.4	+0.3
KSAR	Korea Array	41.22	347	P	P	01 13 10.4	-0.7
KSAR	comp=Z,23nm,0.9s,baz=166,slow=9.8,SNR=41			P	P	01 15 10.6	+0.7
KSAR	comp=Z,6.9nm,1.0s,baz=163,slow=4.4,SNR=59			LR	LR	01 29 54.6	
KSAR	comp=Z,9734µm,19.1s,baz=165,slow=36			LR	LR		
GSI	Gunungsitoli	41.24	275	P	P	01 13 11.0	-0.8
GSI	comp=Z,306nm,1.3s			Iamb	Iamb	01 13 13.4	
GSI	Gunungsitoli	41.24	275	P	P	01 13 11.1	-0.6
GSI	Gunungsitoli	41.24	275	P	P	01 13 10.0	-1.7
GSI	comp=Z,238nm,1.3s			P	P	01 13 10.0	-1.7
GSI	Gunungsitoli	41.24	275	P	P	01 13 11.0	-0.8
KS19	Wonju Array Si	41.28	347	P	P	01 13 11.9	+0.3
KS19	comp=Z,381nm,1.9s			Iamb	Iamb	01 13 15.4	
MSVF	Nonsavu	41.42	114	P	P	01 13 14.4	+1.2
MSVF	Nonsavu	41.42	114	P	P	01 13 15.6	+2.4
MSVF	Nonsavu	41.42	114	P	P	01 13 15.3	+2.1
MSVF	comp=Z,167nm,1.7s			Pmax	Pmax		
MSVF	comp=Z,10µm,15.0s			MLR	MLR		
MSVF	Nonsavu	41.42	114	P	P	01 13 14.9	+1.6
INCN	Inchon	41.55	346	P	P	01 13 14.7	+0.8
INCN	comp=Z,580nm,1.6s			Iamb	Iamb	01 13 19.1	
INCN	Inchon	41.55	346	IAMS_20	IAMS_20	01 30 08.1	
INCN	Inchon	41.55	346	P	P	01 13 11.7	-2.3
INCN	Inchon	41.55	346	P	P	01 13 11.7	-2.3
INCN	Inchon	41.55	346	P	P	01 13 15.1	+1.2
INCN	Inchon	41.55	346	P	P	01 13 14.7	+0.8
INCN	comp=Z,580nm,1.7s			Pmax	Pmax		
INCN	comp=Z,27µm,19.0s			MLR	MLR		
SLVN	Son La	41.57	307	P	P	01 13 14.3	-0.1
SLVN	comp=Z,357nm,1.9s			Iamb	Iamb	01 13 20.1	
SLVN	Son La	41.57	307	P	P	01 13 15.3	+0.9
HJU	Haaju	42.31	345	S	S	01 13 20.2	+0.1
HJU	comp=Z,5µm,2.9s			AMS	AMS	01 19 40.9	+1.5
LHMI	Lhok Sumawe	42.39	281	Iamb	Iamb	01 13 34.8	
LHMI	comp=Z,328nm,0.9s			P	P	01 13 22.6	+1.5
LHMI	Lhok Sumawe	42.39	281	P	P	01 13 21.2	+0.1

GYA	Guiyang	42.40	315	P	P	01 13 22.6	+1.5
GYA				S	S	01 19 43.1	+1.8
GYA	comp=Z,65nm,1.8s			Pmax	Pmax		
GYA	comp=Z,4µm,5.8s			LR	LR		
GYA	comp=Z,12µm,18.5s			LR	LR		
GYA	comp=Z,10µm,19.6s			LR	LR		
GYA	comp=Z,19µm,21.5s			LR	LR		
COCO	West Island	42.43	255	P	P	01 13 24.3	+2.9
COCO				S	S	01 19 50.3	+8.6
DGTI	Dogotuki	42.60	111	P	P	01 13 23.6	+0.8
TAVE	Taveuni	43.03	112	P	P	01 13 28.5	+2.2
ENH	Enshi	43.05	322	Iamb	Iamb	01 13 28.7	
ENH	Enshi	43.05	322	P	P	01 13 27.0	+0.8
ENH	Enshi	43.05	322	P	P	01 13 26.3	0.0
JTM	Temnabayashi	43.39	3	Iamb	Iamb	01 13 32.5	
JTM	comp=Z,197nm,1.2s			P	P	01 13 30.5	+1.7
JTM	Temnabayashi	43.39	3	P	P	01 13 29.4	+0.6
JTM	Temnabayashi	43.39	3	P	P	01 13 28.4	-0.4
TIA	Tai'an	43.66	335	P	P	01 13 30.3	-0.7
TIA				PP	PP	01 15 17.3	-0.8
TIA				S	S	01 19 58.8	-0.4
TIA	comp=Z,84nm,1.0s			Pmax	Pmax		
TIA	comp=Z,4µm,3.5s			Pmax	Pmax		
TIA	comp=Z,15µm,18.5s			LR	LR		
TIA	comp=Z,6µm,17.2s			LR	LR		
TIA	comp=Z,30µm,18.5s			LR	LR		
HHU	Hamhung	43.68	348	P	P	01 13 29.6	-1.5
HHU				S	S	01 20 01.2	+1.8
HHU	comp=Z,6µm,3.1s			AMS	AMS		
JOT	Ugata	43.98	3	P	P	01 13 33.8	+0.3
FUTU	Fogotoga	44.19	108	P	P	01 13 38.4	+2.7
DL2	Dalian	44.32	341	P	P	01 13 37.3	+1.0
DL2				Pmax	Pmax	01 20 12.8	+4.0
DL2	comp=Z,210nm,2.0s			Pmax	Pmax		
DL2	comp=Z,3µm,9.8s			LR	LR		
DL2	comp=Z,16µm,21.1s			LR	LR		
DL2	comp=Z,13µm,18.2s			LR	LR		
DL2	comp=Z,14µm,22.2s			LR	LR		
CM31	Chiang Mai Arr	44.39	300	P	P	01 13 38.0	+0.8
CM31	SNR=34			P	P	01 13 38.0	+0.8
CM31	SNR=34			S	S	01 20 12.7	+2.3
CM31	SNR=34			S	S	01 20 12.7	+2.3
CMAR	Chiang Mai Arr	44.39	300	P	P	01 13 36.5	-0.7
CMAR	Chiang Mai Arr	44.39	300	P	P	01 13 36.9	-0.4
CMAR	comp=Z,45nm,1.0s,baz=118,slow=6.5,SNR=62			P	P		
CMAR	Chiang Mai Arr	44.39	300	P	P	01 13 36.5	-0.7
LKBA	Tubou, Lakemba	44.43	113	P	P	01 13 38.3	+0.8
KMI	Kunming	44.49	311	P	P	01 13 38.4	+0.2
KMI				PP	PP	01 15 22.3	0.0
KMI				S	S	01 20 15.8	+3.7
KMI	comp=Z,58nm,1.6s			Pmax	Pmax		
KMI	comp=Z,2µm,6.0s			Pmax	Pmax		
KMI	comp=Z,9µm,20.1s			LR	LR		
KMI	comp=Z,11µm,20.9s			LR	LR		
KMI	comp=Z,18µm,22.0s			LR	LR		
KMI	Kunming	44.49	311	P	P	01 13 38.7	+0.5
LYN	LuoYang	44.52	329	P	P	01 13 38.3	+0.4
LYN				S	S	01 13 46.6	+0.2
LYN				sS	sS	01 20 14.1	+2.3
LYN				sS	sS	01 20 29.3	+5.6
LYN	comp=Z,270nm,2.0s			Pmax	Pmax		
LYN	comp=Z,6µm,5.6s			LR	LR		
LYN	comp=Z,8µm,14.8s			LR	LR		
LYN	comp=Z,8µm,17.2s			LR	LR		
CHTO	Chiang Mai	44.53	300	P	P	01 13 37.7	-0.7
CHTO	comp=Z,17µm,21.6s			Iamb	Iamb	01 13 43.9	
CHTO	comp=Z,419nm,2.0s			P	P	01 13 39.3	+1.0
CHTO	Chiang Mai	44.53	300	P	P	01 13 39.3	+1.0
CHTO	Chiang Mai	44.53	300	P	P	01 13 38.8	+0.4
CHTO	Chiang Mai	44.53	300	P	P	01 13 37.7	-0.7
CHTO	comp=Z,419nm,2.0s			Pmax	Pmax		

24d 1h

Table with columns for station code, name, frequency, and signal strength. Includes stations like Quartz Range, Vera Road, Denniston, etc.

2019 JUN

Table with columns for station code, name, frequency, and signal strength. Includes stations like Lanzhou, Lanzhou, Lanzhou, etc.

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Table with columns for station code, name, frequency, and signal strength. Includes stations like GOMU, GOMU, GOMU, etc.



Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, Azimuth Rate, Elevation Rate, and other parameters. Includes stations like Dehra Dun, Casey, Hanley, Lodi Road, etc.

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, Azimuth Rate, Elevation Rate, and other parameters. Includes stations like Papeete2, Zalesovo Beam, Zalesovo Beam, etc.

Table with columns: Station Name, Frequency, Mode, Power, Azimuth, Elevation, Azimuth Rate, Elevation Rate, and other parameters. Includes stations like M11K, M11K Mekoryuk, KK31 Karatay Array, etc.

24d 1h

SII	baz=247,SNR=9.5	79.94	31	IAMs_20	IAMs_20	01 51 23.8
SII	Sitkinak Islan	79.94	31	P	P	01 17 36.2 +1.1
SII	Sitkinak Islan	79.94	31	P	P	01 17 35.7 +0.7
ACHA	Angle Creek He	79.97	29	Iamb	Iamb	01 17 37.1
I17K	Unalakleet	80.00	23	Iamb	Iamb	01 17 42.0
I17K	Unalakleet	80.00	23	P	P	01 17 36.4 +1.2
N17K	Nushagak Hills	80.00	27	Iamb	Iamb	01 17 39.9
N17K	Nushagak Hills	80.00	27	P	P	01 17 36.1 +0.8
G16K	Koyuk River	80.10	21	Iamb	Iamb	01 17 38.7
G16K	Koyuk River	80.10	21	P	P	01 17 36.2 +0.6
R18K	Karluk	80.16	30	P	P	01 17 36.3 +0.1
L17K	Donlin	80.19	25	P	P	01 17 37.5 +1.3
M17K	Holifna River	80.25	26	Iamb	Iamb	01 17 42.3
M17K	Holifna River	80.25	26	P	P	01 17 37.7 +1.1
Q18K	Katmai Hardscr	80.29	29	P	P	01 17 35.9 -1.1
J17K	VABM Dome	80.42	24	IAMs_20	IAMs_20	01 48 12.9
J17K	VABM Dome	80.42	24	P	P	01 17 38.5 +1.1
K17K	Iditarod	80.44	25	Iamb	Iamb	01 17 43.1
K17K	Iditarod	80.44	25	P	P	01 17 38.4 +0.8
P18K	Big Mountain,	80.46	28	P	P	01 17 37.0 -0.8
C16K	Lisburne Hills	80.59	18	P	P	01 17 38.6 +0.4
OHAK	Old Harbor	80.63	31	Iamb	Iamb	01 17 44.7
OHAK	Old Harbor	80.63	31	P	P	01 17 38.8 +0.1
OHAK	Old Harbor	80.63	31	P	P	01 17 38.8 +0.1
O18K	Koktuh Hills	80.64	28	Iamb	Iamb	01 17 43.2
O18K	Koktuh Hills	80.64	28	P	P	01 47 30.2
O18K	Koktuh Hills	80.64	28	P	P	01 17 38.8 0.0
N18K	Kilae Creek	80.65	27	Iamb	Iamb	01 17 42.3
N18K	Kilae Creek	80.65	27	P	P	01 17 39.7 +0.9
G17K	Kwailik Mouta	80.77	22	P	P	01 17 40.1 +0.8
H17K	Granite Mouta	80.79	22	Iamb	Iamb	01 17 48.5
H17K	Granite Mouta	80.79	22	P	P	01 17 40.2 +0.8
L18K	Granite Mouta	80.91	25	Iamb	Iamb	01 17 44.6
L18K	Granite Mouta	80.91	25	P	P	01 17 41.0 +0.9
TAOE	Nuku Hiva Isla	80.91	98	ePKIKP	P	01 17 41.8 +0.5
TAOE	Nuku Hiva Isla	80.91	98	ePP	PP	01 20 36.9 -9.2
TAOE	Nuku Hiva Isla	80.91	98	eS	SS	01 27 46.2 -2.8
TAOE	Nuku Hiva Isla	80.91	98	eSS	SS	01 33 05.2 +1.7
TAOE	Nuku Hiva Isla	80.91	98	eLQ	LQ	01 39 32.0
TAOE	Nuku Hiva Isla	80.91	98	eLR	LR	01 43 01.5
M18K	Stony River	81.00	26	P	P	01 17 41.2 +0.6
F17K	Baldwin Pennin	81.01	21	P	P	01 17 41.0 +0.4
D17K	Noatak River	81.01	19	P	P	01 17 41.1 +0.6
Q19K	Cape Douglas,	81.05	29	Iamb	Iamb	01 17 48.9
Q19K	Cape Douglas,	81.05	29	P	P	01 17 40.4 -0.6
JLN	Jalan Bani Buh	81.06	293	P	P	01 17 42.5 +0.6
E17K	Hotham Inlet	81.12	20	P	P	01 17 41.9 +0.8
KDAK	Kodiak Island	81.18	30	P	P	01 17 41.1 -0.6
KDAK	Kodiak Island	81.18	30	iP	iP	01 17 45.3
KDAK	Kodiak Island	81.18	30	pmax	pmax	01 17 41.8 +0.2
KDAK	Kodiak Island	81.18	30	P	P	01 17 42.0 +0.4
O19K	Port Alsworth	81.19	28	IAMs_20	IAMs_20	01 49 05.5
O19K	Port Alsworth	81.19	28	P	P	01 17 41.1 -0.5
RDOG	Red Dog Mine	81.25	19	P	P	01 17 41.9 +0.1
N19K	Bonanza Creek	81.34	27	Iamb	Iamb	01 17 46.7
N19K	Bonanza Creek	81.34	27	P	P	01 17 42.9 +0.4
C17K	Delong Mountai	81.38	18	P	P	01 17 43.1 +0.6
J18K	Innoko River	81.41	24	Iamb	Iamb	01 17 45.6
J18K	Innoko River	81.41	24	P	P	01 17 42.8 0.0
H18K	Honhosa River	81.47	22	Iamb	Iamb	01 17 45.8
H18K	Honhosa River	81.47	22	P	P	01 17 43.3 +0.2
P19K	Oil Pt	81.50	28	Iamb	Iamb	01 17 46.3
P19K	Oil Pt	81.50	28	P	P	01 17 42.7 -0.7
Q20K	Shuyak Island	81.55	30	P	P	01 17 43.6 0.0
F18K	Selawik	81.65	21	P	P	01 17 43.9 0.0
ILSW	Iliamna Southw	81.66	28	Iamb	Iamb	01 17 46.6
L19K	White Mountain	81.69	26	Iamb	Iamb	01 17 48.9
L19K	White Mountain	81.69	26	P	P	01 17 45.0 +0.7
G18K	Tagagawik	81.69	22	P	P	01 17 44.6 +0.3
E18K	Tukpahleark C	81.70	20	Iamb	Iamb	01 17 48.7
E18K	Tukpahleark C	81.70	20	P	P	01 17 45.1 +0.8
M19K	Big River Lodg	81.78	26	IAMs_20	IAMs_20	01 49 46.2
M19K	Big River Lodg	81.78	26	P	P	01 17 45.3 +0.5
GCSA	Galena City Sc	81.87	23	P	P	01 17 45.4 +0.3
WSAR	Wadi Sarin	81.90	294	P	P	01 17 46.5 +0.2

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O20K	Slope Mountain	81.94	28	P	P	01 17 45.1 -0.7
RED	Redoubt Volcan	81.99	28	Iamb	Iamb	01 17 48.4
MAW	Mawson	82.06	202	P	P	01 17 45.8 -0.3
J19K	Poorman	82.07	24	Iamb	Iamb	01 17 49.4
J19K	Poorman	82.07	24	P	P	01 17 46.7 +0.5
C18K	Utukok River	82.09	19	P	P	01 17 46.4 +0.1
L20K	Farewell, AK	82.22	26	P	P	01 17 47.5 +0.4
B18K	Kokolik River	82.26	18	P	P	01 17 48.0 +0.8
HOM	Homér	82.26	29	IAMs_20	IAMs_20	01 50 44.0
HOM	Homér	82.26	29	P	P	01 17 47.1 -0.3
MHTO	MHTO	82.27	291	P	P	01 17 49.0 +0.8
MHTO	MHTO	82.27	291	P	P	01 17 48.9 +0.8
JMDO	Jabal Madar	82.29	293	P	P	01 17 48.9 +0.6
JMDO	Jabal Madar	82.29	293	P	P	01 17 48.9 +0.6
M20K	Styx River	82.33	26	Iamb	Iamb	01 17 51.8
M20K	Styx River	82.33	26	P	P	01 17 48.0 +0.2
H19K	Roundabout Mou	82.36	22	Iamb	Iamb	01 17 54.3
H19K	Roundabout Mou	82.36	22	P	P	01 50 15.1
H19K	Roundabout Mou	82.36	22	P	P	01 17 48.3 +0.6
G19K	Purcell Mouta	82.37	22	IAMs_20	IAMs_20	01 51 34.5
G19K	Purcell Mouta	82.37	22	P	P	01 17 48.0 +0.2
BIDO	Bidbid	82.39	294	P	P	01 17 49.9 +1.1
BIDO	Bidbid	82.39	294	P	P	01 17 49.9 +1.1
SMDO	Samad	82.42	294	P	P	01 17 50.3 +1.2
SMDO	Samad	82.42	294	P	P	01 17 50.3 +1.2
CNMP	China Poot	82.42	29	Iamb	Iamb	01 17 51.4
CNMP	China Poot	82.42	29	P	P	01 50 51.1
F19K	Shalerucik Mo	82.42	21	IAMs_20	IAMs_20	01 52 44.6
F19K	Shalerucik Mo	82.42	21	P	P	01 17 47.9 -0.1
K20K	Telida	82.46	25	Iamb	Iamb	01 17 52.5
K20K	Telida	82.46	25	P	P	01 52 51.0
K20K	Telida	82.46	25	P	P	01 17 49.0 +0.7
N20K	Mount Spurr	82.51	27	P	P	01 17 48.0 -0.7
N20K	Mount Spurr	82.51	27	P	P	01 17 47.8 -0.9
DQM	DQM	82.57	290	P	P	01 17 50.7 +0.9
BRLL	Bradley Lake	82.66	29	Iamb	Iamb	01 17 55.2
BRLL	Bradley Lake	82.66	29	P	P	01 48 44.2
BRSE	Bradley Lake S	82.72	29	P	P	01 17 49.4 -0.4
J20K	Nowinta River	82.73	24	Iamb	Iamb	01 17 53.9
J20K	Nowinta River	82.73	24	P	P	01 17 50.7 +1.0
STLK	Strandline Lak	82.78	27	P	P	01 17 49.1 -1.0
C19K	Lookout Ridge	82.83	19	Iamb	Iamb	01 17 54.6
C19K	Lookout Ridge	82.83	19	P	P	01 17 51.1 -1.0
I20K	Naaghedeneel	82.83	23	Iamb	Iamb	01 19 00.2
I20K	Naaghedeneel	82.83	23	P	P	01 17 50.6 +0.4
CAPN	Captain Cook N	82.86	28	IAMs_20	IAMs_20	01 49 55.6
CAPN	Captain Cook N	82.86	28	P	P	01 17 50.4 0.0
E19K	Redstone River	82.88	20	Iamb	Iamb	01 17 58.2
E19K	Redstone River	82.88	20	P	P	01 17 50.9 +0.5
A19K	Wainwright	82.89	17	P	P	01 17 51.6 +1.3
H20K	Anotleneega Mo	82.94	23	P	P	01 17 51.1 +0.3
MSEY	Mahe Island	82.96	266	P	P	01 17 54.3 +2.3
D19K	Kuna River	83.03	19	Iamb	Iamb	01 17 55.8
D19K	Kuna River	83.03	19	P	P	01 51 32.6
D19K	Kuna River	83.03	19	P	P	01 17 51.7 +0.5
SKT	Skwentna	83.08	27	IAMs_20	IAMs_20	01 50 38.4
SKT	Skwentna	83.08	27	P	P	01 17 50.3 -1.3
PPLA	Purkeypile	83.10	26	IAMs_20	IAMs_20	01 50 45.9
PPLA	Purkeypile	83.10	26	P	P	01 17 51.6 -0.2
HOQ	Hoqain	83.15	294	P	P	01 17 54.0 +1.2
HOQ	Hoqain	83.15	294	P	P	01 17 54.0 +1.2
BSY	BSY	83.16	293	P	P	01 17 53.1 +0.2
BSY	BSY	83.16	293	P	P	01 17 53.1 +0.2
SLKM	Skliak Lake	83.21	28	Iamb	Iamb	01 17 55.0
F20K	Avaraart Lake	83.24	21	Iamb	Iamb	01 17 55.7
F20K	Avaraart Lake	83.24	21	P	P	01 53 30.4
F20K	Avaraart Lake	83.24	21	P	P	01 17 52.9 +0.7
SUA	Susuna One	83.27	27	Iamb	Iamb	01 17 55.1
SUA	Susuna One	83.27	27	P	P	01 51 15.4
SUA	Susuna One	83.27	27	P	P	01 17 51.6 -1.1
CAST	Castle Rocks	83.32	25	Iamb	Iamb	01 17 55.0
CAST	Castle Rocks	83.32	25	P	P	01 53 26.7
CAST	Castle Rocks	83.32	25	P	P	01 17 52.8 0.0
CHUM	Lake Minchum	83.38	25	P	P	01 17 53.8 +0.7
O22K	Cooper Landing	83.44	28	IAMs_20	IAMs_20	01 53 30.0
O22K	Cooper Landing	83.44	28	P	P	01 17 53.4 0.0
SEW	Seward	83.45	29	Iamb	Iamb	01 17 57.1
SEW	Seward	83.45	29	P	P	01 17 53.1 -0.4
E20K	Nigu River	83.57	20	P	P	01 17 54.5 +0.4
RC01	Rabbit Creek A	83.61	28	Iamb	Iamb	01 17 57.5
RC01	Rabbit Creek A	83.61	28	P	P	01 17 53.8 -0.5
D20K	Etiuvik River	83.62	19	Iamb	Iamb	01 18 01.2
D20K	Etiuvik River	83.62	19	P	P	01 17 54.8 +0.6
M22K	Willow	83.64	27	IAMs_20	IAMs_20	01 53 58.3
M22K	Willow	83.64	27	P	P	01 17 53.5 -0.9
CUT	Ching	83.78	26	Iamb	Iamb	01 17 58.1
CUT	Ching	83.78	26	P	P	





Table with columns for station name, frequency, power, and other technical details. Includes stations like KRUC Moravsky, TRINIDAD, TIR, TREC, PVCC, GOPC, RONA, BRG, PRU, MNTX, PRA, CONA, OGNE, CLL, MVO, BNI, UNM, VSL, CLF, IVI, N41A, HKT, DSB, NATX, CCM, HDIL, KEST, P42A, Q44A, 441A, L46A, S44A, SCHQ, 143A, MAHO, P46A, COYC, T45A, OXF, Y45A, WVT, WVT, P48A, N49A, WCI, WCI, PLAL, Y48A, Z47A, N51A, ACSSO, U49A.

Table with columns for station name, frequency, power, and other technical details. Includes stations like ANGG, ISOG, L34M, ASPM, DAVA, FUORN, OK038, WIN, BTNL, MEM, ABTX, WMOK, BSTI, TUE, KSU1, N35A, SPFN, WLM, BCLA, JCT, BGES, MG01, UCC, UCC, MARD, OK029, X34A, BRDY, DOU, OK048, OK051, T35A, OK052, EKA, EKA, SENIN, SCIA, WHTX, N38A, TUL3, P38A, BNI, BNI, BNI, U56A, S39A, UNM, VSL, P40A, CLF, IVI, N41A, HKT, DSB, NATX, CCM, HDIL, KEST, P42A, Q44A, 441A, L46A, S44A, SCHQ, 143A, MAHO, P46A, COYC, T45A, OXF, Y45A, WVT, WVT, P48A, N49A, WCI, WCI, PLAL, Y48A, Z47A, N51A, ACSSO, U49A.

Table with columns for station name, frequency, power, and other technical details. Includes stations like X48A, ERPA, LRAL, O52A, J55A, BRAL, TZTN, X51A, UCM, J57A, PLCA, CART, K57A, S54A, Y52A, V53A, D62A, 451A, J59A, SSPA, ESCD, ESCD, 352A, Q56A, PBRG, PBRG, PAB, BLA, L59A, MVO, MVO, MVO, MVO, TRY, 154A, KMSC, 553A, PAYG, PGAV, PGAV, PGAV, PGAV, PCAB, POLO, POLO, PVRL, PVRL, I63A, PVIS, PVIS, MTE, MTE, MTE, MTE, WMEL, PCBR, PCBR, PMRV, PMRV, PMRV, PMRV, N62A, COI, COI, COI, EMJ, PCAS, PCAS, PSARD, PSARD, X58A, PESTR, PESTR, PESTR, PBAR, PBAR, PESTR, 557A, EMIN, W59A, ESPR, PMTG, PMTG, PSBE, PSBE, EVO, EVO, CNIL, PBEJ, Y60A, LIS, LIS, PVAO, PVAO, PVAO, MESJ, MESJ, MESJ, MESJ, PCVE, PCVE, PBDV.

24d 1h

Table with columns for station name, frequency, power, and various status indicators. Includes stations like Disney Wildern, Marneite, MORF, MORF, MORF, etc.

2019 JUN

Table with columns for station name, frequency, power, and various status indicators. Includes stations like PARB, VABE, PCMB, PCMB, SABA, etc.

1454

Table with columns for station name, frequency, power, and various status indicators. Includes stations like ASAR, Alice Springs, ILAR, Eielson Array, etc.





24d 1h

2019 JUN

1456

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy.

RAYN	Ar Rayn	53.08	279	P	P	01 32 32.5	-1.3
RAYN	Ar Rayn	53.08	279	P	P	01 32 36.9	
RAYN	Ar Rayn	53.08	279	P	P	01 32 32.5	-1.3
BILL	Bilibino	53.33	24	P	P	01 32 36.0	+1.1
BILL	Bilibino	53.33	24	P	P	01 32 36.2	+1.3
KLMR	Klimovskoe	53.60	326	eP	P	01 32 35.4	-1.6
BR131	Keskin Array S	58.61	301	P	P	01 33 13.7	+0.4
BR131	Keskin Array S	58.61	301	P	P	01 33 13.7	+0.4
BRTR	Keskin Array B	58.61	301	P	P	01 33 12.2	-1.1
BRTR	Keskin Array B	58.61	301	P	P	01 33 12.8	-0.6
BRTR	Keskin Array B	58.61	301	iP	P	01 33 14.3	+1.0
ASAR	Alice Springs	58.91	149	P	P	01 33 13.2	-2.2
AKASG	Malin Array Be	59.66	314	P	P	01 33 19.5	-0.7
AKASG	Malin Array Be	59.66	314	iP	P	01 33 22.7	+2.5
AKKB	Malin Array Si	59.66	314	P	P	01 33 18.6	-1.6
AKKB	Malin Array Si	59.66	314	P	P	01 33 18.6	-1.6
KIEV	Kiev	59.67	314	P	P	01 33 19.6	-0.7
KIEV	Kiev	59.67	314	P	P	01 33 19.6	-0.7
ARCES	ARCESS Array B	59.93	336	P	P	01 33 21.2	-0.6
ARCES	ARCESS Array B	59.93	336	P	P	01 33 21.2	-0.6
ARCES	ARCESS Array B	59.93	336	P	P	01 33 21.2	-0.6
ARCES	ARCESS Array B	59.93	336	P	P	01 33 21.2	-0.6
FINES	FINESS Array B	60.12	327	P	P	01 33 22.5	-0.7
FINES	FINESS Array B	60.12	327	P	P	01 33 22.6	-0.5
FINES	FINESS Array B	60.12	327	iP	P	01 33 23.6	+0.4
BORA	Eskshehir	60.96	302	P	P	01 33 28.4	-1.1
GAMB	Gambell	62.05	30	P	P	01 33 35.9	+0.3
BURAR	Bucovina Array	62.83	312	P	P	01 33 42.0	+0.1
BUR08	Bucovina Ar. S	62.84	312	P	P	01 33 41.1	-0.8
MLR	Muntele Rosu	62.84	309	P	P	01 33 41.1	-1.0
MLR	Muntele Rosu	62.84	309	P	P	01 33 41.1	-1.0
C16K	Lisburne Hills	63.86	25	P	P	01 33 47.2	-1.0
C16K	Lisburne Hills	63.86	25	P	P	01 33 48.5	+0.3
F14K	Arctic Creek	64.04	28	P	P	01 33 49.9	+0.5
C17K	DeLong Mountai	64.61	24	P	P	01 33 53.5	+0.3
D17K	Noatak River	64.82	25	P	P	01 33 55.0	+0.5
B18K	Kokolik River	64.88	23	P	P	01 33 55.7	+0.8
A19K	Wainwright	64.93	22	P	P	01 33 56.2	+1.1
M11K	Mekoryuk	65.24	33	P	P	01 33 56.3	-1.0
C18K	Utukok River	65.27	24	P	P	01 33 57.1	-0.4
C18K	Utukok River	65.27	24	P	P	01 33 58.2	+0.6
C17K	Hotham Inlet	65.44	25	P	P	01 33 58.5	-0.1
K13K	Kusilyuk Mount	65.58	31	P	P	01 33 60.0	+0.4
G16K	Koyuk River	65.67	27	P	P	01 34 00.1	0.0
C19K	Lookout Ridge	65.71	23	P	P	01 34 00.8	+0.4
E18K	Tukpahleark C	65.81	25	P	P	01 34 01.4	+0.5
F17K	Baldwin Pennin	65.83	26	P	P	01 34 01.4	+0.5
J14K	Nanvaranak Lak	65.86	30	P	P	01 34 01.8	+0.5
H16K	Elim	65.92	28	P	P	01 34 02.0	+0.3
B20K	Meade River	66.27	22	P	P	01 34 04.2	+0.4
HFS	Hagfors	66.32	327	P	P	01 34 03.5	-0.9
D19K	Kuna River	66.40	24	P	P	01 34 05.0	+0.2
M13K	Dall Lake	66.60	33	P	P	01 34 06.1	0.0
A22K	Sinclair Lake	66.65	21	P	P	01 34 06.4	+0.2
L14K	Kuka Creek	66.65	32	P	P	01 34 06.8	+0.5
L14K	Kuka Creek	66.65	32	P	P	01 34 07.5	+0.2
H17K	Granite Mounta	66.79	27	P	P	01 34 08.0	+0.3
D20K	Etiyuk River	66.86	23	P	P	01 34 08.3	+0.3
K15K	Wolf Creek Mou	66.89	30	P	P	01 34 08.3	+0.3
G18K	Tagagawik	67.00	26	P	P	01 34 08.6	-0.1
J16K	Anvik River	67.00	29	P	P	01 34 09.2	+0.5
F19K	Shaleruckik Mo	67.04	25	P	P	01 34 09.2	+0.3
E19K	Redstone River	67.04	24	P	P	01 34 09.3	+0.4
E20K	Nigu River	67.16	24	P	P	01 34 10.0	+0.4
M14K	Bethel	67.16	32	P	P	01 34 09.9	+0.3
B21K	Ikpkuk River	67.23	22	P	P	01 34 10.6	+0.6
NB2	NORSAR Subarra	67.23	328	P	P	01 34 09.0	-1.2
NOA	NORSAR Array B	67.23	328	P	P	01 34 09.2	-1.0
C21K	Knifeblade Rid	67.33	22	P	P	01 34 11.2	+0.5
H18K	Honhosa River	67.35	27	P	P	01 34 11.4	+0.5
B22K	Teshehpuk Lake	67.36	21	P	P	01 34 11.0	+0.3
J17K	VABM Dome	67.62	29	P	P	01 34 13.0	+0.4
F20K	Avaraart Lake	67.73	25	P	P	01 34 13.6	+0.5
M15K	Kasigluk River	67.77	32	P	P	01 34 14.3	+0.8
E21K	Killik River	67.86	23	I	Amb	01 34 17.6	
E21K	Killik River	67.86	23	P	P	01 34 14.8	+0.7
O14K	Tigykaiuvet M	67.95	34	P	P	01 34 14.7	0.0

H19K	Roundabout Mou	67.98	26	P	P	01 34 15.1	+0.3
L16K	Owhat River	68.00	31	P	P	01 34 15.7	+0.8
D22K	Aiykyak River	68.14	22	P	P	01 34 16.3	+0.5
K17K	Iditarod	68.18	30	P	P	01 34 16.6	+0.5
N15K	Kwethluk River	68.22	32	P	P	01 34 16.8	+0.4
L17K	Donlin	68.38	30	P	P	01 34 17.7	+0.4
C23K	Itkillik River	68.44	21	I	Amb	01 34 21.1	
C23K	Itkillik River	68.44	21	P	P	01 34 18.2	+0.6
M16K	Timbes Creek	68.46	31	P	P	01 34 18.4	+0.5
F21K	Alatina River	68.49	24	P	P	01 34 18.5	+0.5
J18K	Innokk River	68.60	28	P	P	01 34 19.1	+0.4
RONA	Rosalia, Austr	68.60	314	eP	P	01 34 18.4	-0.6
H20K	Anoteneega Mo	68.61	26	P	P	01 34 19.0	+0.3
O15K	Ungalikthiuk R	68.68	33	P	P	01 34 19.6	+0.4
E22K	Anaktuvuk Pass	68.72	23	I	Amb	01 34 22.7	
E22K	Anaktuvuk Pass	68.72	23	P	P	01 34 19.9	+0.5
N16K	Nishlik Lake	68.73	32	P	P	01 34 20.2	+0.6
G21K	Atakaket	68.75	25	P	P	01 34 20.2	+0.6
D23K	Nanushuk River	68.77	22	P	P	01 34 20.9	+1.2
D23K	Nanushuk River	68.77	22	P	P	01 34 20.5	+0.8
CONA	Conrad Observa	68.80	314	iP	P	01 34 20.8	+0.4
F22K	John River	68.84	24	P	P	01 34 20.4	+0.2
J19K	Poorman	68.86	28	P	P	01 34 20.8	+0.5
M17K	Holitna River	69.02	31	P	P	01 34 21.7	+0.4
L18K	Granite Mounta	69.06	30	P	P	01 34 21.5	-0.1
C24K	Franklin Bluff	69.10	21	P	P	01 34 22.0	+0.3
ARSA	Arzberg	69.25	313	iP	P	01 34 24.0	+0.9
TOLK	Toolik Lake Re	69.27	22	P	P	01 34 23.1	+0.2
D24K	Happy Valley	69.30	22	P	P	01 34 23.4	+0.4
G22K	Suitwa	69.32	24	P	P	01 34 23.6	+0.5
H21K	Melozitna Rive	69.34	26	P	P	01 34 23.7	+0.4
O16K	Kokwok River B	69.36	33	P	P	01 34 24.2	+0.7
J20K	Nowinta River	69.39	27	I	Amb	01 34 27.4	
J20K	Nowinta River	69.39	27	P	P	01 34 24.1	+0.5
N17K	Nushagak Hills	69.45	32	P	P	01 34 24.5	+0.5
E23K	Chandalar	69.51	23	I	Amb	01 34 27.7	
E23K	Chandalar	69.51	23	P	P	01 34 25.1	+0.7
COLD	Coldfoot	69.66	24	P	P	01 34 26.1	+0.9
SDPT	Sand Point	69.67	37	P	P	01 34 26.3	+0.9
M18K	Stony River	69.71	30	P	P	01 34 26.4	+0.8
K20K	Telda	69.74	28	P	P	01 34 26.5	+0.7
SOKA	Soboth	69.76	313	eP	P	01 34 26.5	+0.2
O17K	Kolliganek Bris	69.77	32	P	P	01 34 26.5	+0.5
H22K	Ishlatitna Cre	69.79	25	P	P	01 34 26.5	+0.5
S14K	Fog Glacier	69.82	316	P	P	01 34 26.1	-0.4
MOA	Mollin	69.84	314	eP	P	01 34 27.0	+0.3
GERES	GERESS Array B	69.85	315	P	P	01 34 26.3	-0.5
L19K	White Mountain	69.87	29	P	P	01 34 27.3	+0.7
E24K	Your Creek	69.88	23	I	Amb	01 34 28.9	
E24K	Your Creek	69.88	23	P	P	01 34 27.3	+0.7
G23K	Bananza Creek	69.94	24	P	P	01 34 27.8	+0.8
N18K	Kilae Creek	69.99	31	P	P	01 34 28.1	+0.7
D25K	Kavik River	70.01	21	P	P	01 34 27.6	+0.2
OBKA	Obi	70.13	313	eP	P	01 34 29.3	+0.7
L20K	Farewell, AK	70.17	29	P	P	01 34 28.7	+0.2
C26K	Camden Bay	70.18	20	P	P	01 34 28.3	0.0
M19K	Big River Lodg	70.18	30	P	P	01 34 29.2	+0.7
BIOA	Bad Ischl, Aus	70.29	314	eP	P	01 34 29.4	-0.1
P17K	Kvichak River	70.30	33	P	P	01 34 29.5	+0.3
CHNA	Chernabura Isl	70.33	38	P	P	01 34 29.3	-0.2
F24K	Squaw Lake	70.34	23	P	P	01 34 30.3	+0.9
MLY	Manley	70.39	26	P	P	01 34 29.9	+0.1
MLY	Manley	70.39	26	P	P	01 34 32.6	
MLY	Manley	70.39	26	P	P	01 34 30.6	+0.8
Q16K	King Salmon	70.39	33	P	P	01 34 30.8	+1.0
H23K	Yukon River	70.50	25	P	P	01 34 31.0	+0.6
H23K	Yukon River	70.50	25	P	P	01 34 31.0	+0.6
CAST	Castle Rocks	70.54	28	P	P	01 34 31.3	+0.6
N19K	Bonanza Creek	70.57	31	P	P	01 34 31.7	+0.7
O18K	Koktuh Hills	70.62	32	P	P	01 34 31.6	+0.3
MYKA	Terra Mystica	70.67	313	eP	P	01 34 31.4	-0.5
C27K	Jago River	70.69	20	P	P	01 34 31.7	+0.2
BPWA	Bear Paw Mtn.	70.69	27	P	P	01 34 31.6	0.0
BPWA	Bear Paw Mtn.	70.69	27	P	P	01 34 36.0	
BPWA	Bear Paw Mtn.	70.69	27	P	P	01 34 32.3	+0.7
PPLA	Purkypile	70.71	28	P	P	01 34 32.0	+0.1
M20K	Styx River	70.73	29	P	P	01 34 32.5	+0.5
P18K	Big Mountain,	70.79	32	P	P	01 34 32.3	0.0
E25K	Arctic Village	70.83	22	P	P	01 34 33.3	+0.8
G24K	Hadweenzic Riv	70.85	24	I	Amb	01 34 35.3	
G24K	Hadweenzic Riv	70.85	24	P	P	01 34 33.4	+0.8
I23K	Minto, Yukon-K	70.87	25	P	P	01 34 33.4	+0.8
KMBO	Kilima Mbogo	70.91	258	P	I	01 34 32.5	-1.6
KMBO	Kilima Mbogo	70.91	258	P	P	01 34 35.2	
KMBO	Kilima Mbogo	70.91	258	P	P	01 34 32.5	-1.6

Q17K	Contact Creek	70.92	33	P	P	01 34 33.9	+0.7
LESA	Schwarzleotal	71.00	314	eP	P	01 34 33.3	-0.6
F25K	Christian River	71.06	22	P	P	01 34 34.7	+0.8
H24K	Noodor Dome	71.11	25	P	P	01 34 33.7	-0.5
H24K	Noodor Dome	71.11	25	P	P	01 34 37.9	
H24K	Noodor Dome	71.11	25	P	P	01 34 34.8	+0.7
Q18K	Katmai Hardscr	71.19	33	P	P	01 34 34.3	-0.6
NEA2	Nenana	71.23	26	I	Amb	01 34 37.4	
NEA2	Nenana	71.23	26	P	P	01 34 35.6	+0.7
TRF							



CD2	Chengdu	47.10 318	P	P	01 37 09.8 +0.7
CD2	comp-Z,30nm,0.7s				
USA0B	Ussuriysk Arra	47.13 354	P	I/Amb	01 37 08.0 -0.9
USA0B	comp-Z,36nm,1.4s				01 37 10.3
USA0B	Ussuriysk Arra	47.13 354	eP	P	01 37 08.7 -0.2
USRK	Ussuriysk Ar.	47.13 354	P	P	01 37 07.8 -1.1
USRK	Ussuriysk Ar.	47.13 354	P	P	01 37 07.6 -1.3
USRK	comp-Z,6.8nm,1.0s,baz=164,slow=7.5,SNR=19				
USRK	Ussuriysk Ar.	47.13 354	P	P	01 37 07.8 -1.1
BJT	Baijiatouau	47.26 337	P	I/Amb	01 37 09.3 -0.7
BJT	comp-Z,58nm,1.5s				01 37 11.0
BJT	Baijiatouau	47.26 337	P	P	01 37 10.8 +0.7
BJT	Baijiatouau	47.26 337	P	P	01 37 09.3 -0.7
BJI	Beijing	47.28 337	P	P	01 37 10.0 -0.2
BJI	comp-Z,58nm,1.5s				
CN2	Changchun	47.83 347	eP	P	01 37 13.1 -1.3
CN2	comp-Z,12nm,1.4s				
MDJ	Mudanjiang	47.85 351	P	P	01 37 14.3 -0.2
MDJ	comp-Z,10.0nm,0.7s				
MDJ	Mudanjiang	47.85 351	P	P	01 37 14.3 -0.2
MDJ	comp-Z,24nm,1.3s				
MDJ	Mudanjiang	47.85 351	P	P	01 37 15.3 +0.8
YSS	Yuzhno-Sakhal	49.66 4	P	P	01 37 29.3 +1.0
YSS	Yuzhno-Sakhal	49.66 4	eP	P	01 37 27.1 -1.2
YSS	comp-Z,30nm,1.1s				
HHC	Hu-ho-hao-te	49.91 333	iP	P	01 37 31.3 +0.8
HHC	comp-Z,26nm,1.2s				
TUWZ	Tuamarina	49.92 145	P	P	01 37 31.1 +0.5
RPZ	Rata Peaks	49.93 149	P	P	01 37 31.6 +1.0
RPZ	Rata Peaks	49.93 149	P	P	01 37 32.9 +2.3
TOW	Tony Channel	49.97 145	P	P	01 37 31.8 +0.9
BTO	Baotou	50.42 332	eP	S	01 37 35.0 +0.6
BTO	comp-Z,26nm,1.3s				01 44 51.1 +5.4
BTO	comp-Z,3um,15.1s				
BTO	comp-Z,4um,17.0s				
BTO	comp-Z,6um,16.7s				
LZH	Lanzhou	50.42 323	eP	sP	01 37 36.1 +1.5
LZH	comp-Z,51nm,1.4s				01 37 45.0 -0.2
LZH	XiLinHaoTe	50.64 339	eP	pP	01 37 34.5 -1.5
XLT	Kul'dur	52.13 354	eP	P	01 37 39.0 -7.6
XLT	comp-Z,49nm,1.5s				01 37 45.9 -1.0
HEH	Heihe	53.68 351	eP	P	01 37 57.4 -0.9
HEH	comp-Z,35nm,1.4s				
HIA	Hailar	54.33 345	I/Amb	I/Amb	01 38 05.3
HIA	comp-Z,100nm,1.9s				
HIA	Hailar	54.33 345	P	P	01 38 04.2 +1.0
GTA	Goatai	55.01 324	eP	sP	01 38 09.5 +1.0
GTA	comp-Z,14nm,1.4s				01 38 16.8 -2.4
ZEA	Zeya	57.09 352	eP	P	01 38 22.7 -0.2
ZEA	comp-N,20nm,1.4s				
ZEA	comp-Z,30nm,1.4s				
ULN	Ulaanbaatar	57.45 335	P	I/Amb	01 38 25.6 -0.1
ULN	comp-Z,28nm,1.6s				01 38 27.5
ULN	Ulaanbaatar	57.45 335	P	P	01 38 25.6 -0.1
ULN	comp-Z,28nm,1.6s				
SOMN	Songino Array	57.70 335	P	P	01 38 27.6 +0.1
SOMN	comp-Z,2.9nm,0.8s				01 38 27.0 -0.5
SOMN	comp-Z,2.9nm,0.8s				
SOMN	Songino Array	57.70 335	P	P	01 38 27.6 +0.1
SOMN	comp-Z,13nm,1.3s				
PEA0B	Petrovavlovsk	57.96 14	P	P	01 38 28.6 -0.4
PEA0B	Petrovavlovsk	57.96 14	eP	P	01 38 28.9 -0.1
PETK	Petrovavlovsk	57.96 14	P	P	01 38 28.1 -1.0
PETK	Petrovavlovsk	57.96 14	P	P	01 38 28.5 -0.5
PETK	comp-Z,8.9nm,1.0s,baz=148,slow=5.2,SNR=19				
EVN	Everest	58.33 305	P	I/Amb	01 38 32.3 -0.5
EVN	comp-Z,32nm,1.3s				01 38 47.8
CIT	Chita	58.55 342	eP	P	01 38 33.8 +0.6
CIT	comp-Z,127nm,1.6s				01 48 26.2
CIT	comp-Z,127nm,1.6s				
ZAK	Zakamensk	60.97 335	eP	P	01 38 49.4 -0.6
ZAK	comp-Z,26nm,1.5s				
HYB	Hyderabad	62.42 291	eP	P	01 39 00.5 +0.2
MOY	Monday	62.89 335	eP	P	01 39 03.2 +0.3
MOY	comp-Z,49nm,1.6s				
MA2	Magadan	62.91 7	P	P	01 39 01.9 -0.8
MA2	Magadan	62.91 7	P	P	01 39 03.1 +0.4
MA2	Magadan	62.91 7	eP	P	01 39 02.4 -0.3
MA2	comp-Z,12nm,1.0s				
WMQ	Urumqi	64.94 322	eP	sP	01 39 18.3 +1.8
WMQ	comp-Z,31nm,1.3s				01 39 25.4 -1.9
WMQ	comp-Z,31nm,1.3s				
YAK	Yakutsk	64.98 355	eP	P	01 39 15.7 -0.5
YAK	Yakutsk	64.98 355	eP	P	01 39 16.3 +0.1
YAK	comp-Z,95nm,1.1s				
YAK	comp-N,52nm,1.3s				
YAK	comp-E,7.0nm,1.3s				
SEY	Seymchan	66.36 7	iP	P	01 39 25.2 0.0
SEY	comp-Z,40nm,1.7s				
MK31	Makanchi Array	69.73 322	P	P	01 39 46.3 -0.4
MK31	Makanchi Array	69.73 322	iP	P	01 39 47.0 +0.3
MKAR	Makanchi Array	69.73 322	P	P	01 39 46.8 +0.2
MKAR	Makanchi Array	69.73 322	P	P	01 39 46.2 -0.5
MKAR	comp-Z,12nm,1.0s				
MKAR	Makanchi Array	69.73 322	eP	P	01 39 47.0 +0.3
MKAR	comp-Z,11nm,0.9s				
MAKZ	Makanchi	69.92 322	P	I/Amb	01 39 47.6 -0.3
MAKZ	comp-Z,24nm,1.1s				
MAKZ	Makanchi	69.92 322	P	P	01 39 47.6 -0.3
MAKZ	comp-Z,24nm,1.2s				
PRZ	Przheval'sk	70.39 317	P	I/Amb	01 39 52.2 +1.2
PRZ	comp-Z,36nm,1.2s				01 39 56.7
PRZ	Przheval'sk	70.39 317	P	P	01 39 52.2 +1.2
PRZ	comp-Z,36nm,1.2s				
TARG	Taragay, Kyrgy	70.50 316	P	P	01 39 50.8 -1.2
TARG	Taragay, Kyrgy	70.50 316	P	P	01 39 50.8 -1.2
TARG	comp-Z,8.0nm,0.9s				
NIKH	Nikolski High	70.82 31	P	P	01 39 53.6 +0.5
NIKH	kash	70.82 31	P	P	01 39 56.6 +1.9
KSH	Kashi	70.99 313	P	sP	01 40 07.8 -1.9
KSH	comp-Z,12nm,1.2s				
NRN	Naryn	71.65 315	P	P	01 39 58.6 -0.3
NRN	Naryn	71.65 315	P	P	01 39 58.6 -0.3
NRN	comp-Z,11nm,1.2s				
ZAAO	Zalesovo Array	71.90 330	P	P	01 39 58.1 -1.6
ZALV	Zalesovo Beam	71.90 330	P	P	01 39 57.5 -2.2

ZALV	Zalesovo Beam	71.90 330	P	P	01 39 58.9 -0.8
ZALV	comp-Z,2.5nm,0.6s,baz=117,slow=5.2,SNR=8.7				
BOOM	Boomsboye usch	72.07 316	P	P	01 40 01.7 +0.5
BOOM	Boomsboye usch	72.07 316	P	P	01 40 01.7 +0.5
BOOM	comp-Z,19nm,1.2s				
UNV	Unalaska Valle	72.48 31	P	P	01 40 02.8 -0.3
UNV	Unalaska Valle	72.48 31	P	P	01 40 03.6 +0.5
PO8K	Saint George I	72.50 27	P	P	01 40 03.8 +0.6
PO8K	baz=236				
AAK	Ala-Archa	73.12 316	P	P	01 40 07.5 0.0
AAK	Ala-Archa	73.12 316	iP	P	01 40 08.3 +0.8
AAK	comp-Z,12nm,1.4s				
BILL	Bilibino	73.26 11	P	I/Amb	01 40 06.4 -1.1
BILL	comp-Z,32nm,1.4s				01 40 08.2
BILL	Bilibino	73.26 11	iP	P	01 40 06.9 -0.6
BILL	comp-Z,25nm,1.4s				
KURK	Kurchatov	73.66 325	P	I/Amb	01 40 09.6 -0.6
KURK	comp-Z,28nm,1.2s				01 40 19.1
KURK	Kurchatov	73.66 325	P	P	01 40 10.1 -0.1
KURB	Kurchatov Arra	73.67 325	P	P	01 40 10.1 -0.2
KURB	comp-Z,12nm,1.0s,baz=113,slow=5.5,SNR=28				
KURB	comp-Z,12nm,1.0s				
ARSB	Arslanbob	73.75 314	P	I/Amb	01 42 57.0 +2.1
ARSB	comp-Z,37nm,1.4s				
ARSB	Arslanbob	73.75 314	P	P	01 40 11.7 +0.5
ARSB	comp-Z,37nm,1.4s				
TIXI	Tiksi	74.55 357	P	I/Amb	01 40 13.0 -2.0
TIXI	comp-Z,44nm,1.7s				01 40 19.5
TIXI	Tiksi	74.55 357	eP	P	01 40 13.2 -1.8
TIXI	comp-Z,29nm,1.7s				
BTK	Batken	74.93 313	P	I/Amb	01 40 17.1 -0.9
BTK	comp-Z,54nm,1.9s				01 40 31.6
BTK	Batken	74.93 313	P	P	01 40 17.1 -0.9
BTK	comp-Z,55nm,1.9s				
S12K	Black Hills	75.64 30	P	P	01 40 21.1 -0.5
S12K	baz=243,SNR=11				
VNDA	Vanda	75.73 175	P	I/Amb	01 40 22.3 +0.6
VNDA	comp-Z,15nm,0.8s				01 40 24.0
VNDA	Vanda	75.73 175	P	P	01 40 22.6 +0.8
VNDA	comp-Z,12nm,0.7s,baz=327,slow=6.6,SNR=52				
VNDA	comp-Z,12nm,0.7s				
SIMJ	Simiganj	75.89 311	P	I/Amb	01 40 23.0 -0.6
SIMJ	comp-Z,29nm,1.5s				01 40 28.1
GAMB	Gambell	75.90 20	P	P	01 40 23.2 +0.3
GAMB	baz=232				
KK31	Karatay Array	76.05 316	P	P	01 40 23.9 -0.3
KK31	Karatay Array	76.05 316	P	P	01 40 23.9 -0.3
KK31	comp-Z,14nm,1.2s				
KKAR	Karatay Array	76.05 316	P	P	01 40 23.9 -0.4
KKAR	Karatay Array	76.05 316	P	P	01 40 23.8 -0.4
KKAR	Karatay Array	76.05 316	P	P	01 40 23.9 -0.4
KKAR	comp-Z,15nm,1.2s				
M11K	Mlekoyuk	76.06 25	P	P	01 40 23.7 -0.1
M11K	baz=238				
SDPT	Sand Point	76.28 31	P	P	01 40 24.7 -0.5
SDPT	baz=244				
SBA	Scott Base	76.50 174	P	I/Amb	01 40 26.9 +0.8
SBA	comp-Z,49nm,1.4s				01 40 56.1
SBA	Scott Base	76.50 174	P	P	01 40 27.0 +0.8
SBA	comp-Z,49nm,1.4s				
CHNA	Chernabura Is	76.52 32	P	P	01 40 26.4 -0.1
CHNA	baz=245				
S14K	Fog Glacier	77.16 30	P	P	01 40 30.2 -0.1
S14K	baz=245				
M13K	Dall Lake	77.29 26	P	P	01 40 31.0 +0.2
M13K	Dall Lake	77.29 26	P	P	01 40 31.5 +0.7
M13K	baz=240				
K13K	Kusilivak Mount	77.51 24	P	P	01 40 32.7 +0.7
K13K	baz=239				
O14K	Igtykuaiwet M	77.66 27	P	P	01 40 32.9 0.0
O14K	baz=243				
N14K	Kuskokwak Cree	77.78 26	P	P	01 40 33.6 +0.1
N14K	baz=242				
L14K	Kuka Creek	78.03 25	P	P	01 40 35.3 +0.4
L14K	baz=241,SNR=24				
M14K	Bethel	78.05 26	I/Amb	I/Amb	01 40 36.4
M14K	comp-Z,29nm,0.8s				
M14K	Bethel	78.05 26	P	P	01 40 35.3 +0.3
M14K	baz=242,SNR=12				
O15K	Ungalikthiuk R	78.28 28	P	P	01 40 36.4 0.0
O15K	baz=244				
J14K	Nanvaranak Lak	78.37 23	P	P	01 40 37.1 +0.3
J14K	baz=240				
M15K	Kasigluk River	78.58 26	P	P	01 40 38.0 0.0
M15K	baz=243,SNR=6.1				
N15K	Kwethluk River	78.60 27	I/Amb	I/Amb	01 40 39.5
N15K	comp-Z,33nm,1.1s				
N15K	Kwethluk River	78.60 27	P	P	01 40 38.3 +0.1
N15K	baz=244,SNR=7.2				
L15K	Ungalik Mounta	78.69 25	P	P	01 40 38.4 -0.1
L15K	baz=242,SNR=8.8				
F14K	Arcic Creek	78.78 20	P	P	01 40 39.2 +0.2
F14K	baz=237				
K15K	Wolf Creek Mou	78.97 24	P	P	01 40 40.1 0.0
K15K	comp-Z,37nm,1.2s				01 40 41.7
K15K	Wolf Creek Mou	78.97 24	P	P	01 40 40.6 +0.5
K15K	baz=242,SNR=11				
CHIR	Chirikof Islan	78.99 32	P	P	01 40 40.4 +0.1
CHIR	baz=248				
P16K	Nushagak River	79.08 28	P	P	01 40 40.8 +0.1
P16K	baz=246				</





JAY	214nm,0.4s	2.19	82	P	Pn	01 46 18.3	-0.9
SRPI	Jayapura	2.48	292	P	P	01 46 23.8	+0.6
BAKI	Seru, Papua	2.92	304	P	Pn	01 46 29.9	+0.7
RKPI	Biak	4.54	286	P	P	01 46 53.0	+1.3
FAKI	Ransiki, Papua	6.28	269	Pn	P	01 47 16.7	+1.3
FAKI	Fak Fak	6.28	269	P	Pn	01 47 16.7	+1.1
SWI	0.3nm46nm,1.1s	7.53	285	P	Pn	01 47 33.0	+0.3
COEN	Sorong	11.98	158	Pn	Pn	01 48 35.1	+1.3
MTN	Coen	12.37	216	Pn	Pn	01 48 40.3	+1.3
SOEI	Manton Dam	15.76	243	P	P	01 49 27.7	-0.9
SOEI	Soe	15.76	243	I Amb	I Amb	01 49 32.5	
SOEI	comp=Z,90nm,1.1s	15.76	243	P	P	01 49 27.6	-0.9
KNRA	Kununurra	16.00	216	Pn	Pn	01 49 28.0	+0.1
KNRA	Kununurra	16.00	216	I Amb	I Amb	01 49 37.1	
BATI	comp=Z,81nm,1.2s	16.49	243	Pn	Pn	01 49 34.6	+0.4
BATI	Baumata	16.49	243	Pn	Pn	01 49 34.6	+0.4
WB0	comp=Z,9.1nm,0.3s,baz=128,slow=0.9,SNR=6.3	16.49	243	Pn	Pn	01 49 34.6	+0.4
WRB	comp=Z,68nm,1.1s	17.33	193	Pn	Pn	01 49 44.4	-0.3
WRAB	Warramunga Arr	17.33	193	Pn	Pn	01 49 45.9	-0.7
WRAB	Tenna Creek	17.50	193	Pn	Pn	01 49 47.5	-0.1
WRA	Warramunga Arr	17.51	193	Pn	Pn	01 49 47.0	-0.1
WRA	Warramunga Arr	17.51	193	Pn	Pn	01 49 46.4	-0.4
WRA	comp=Z,1.1nm,0.3s,baz=16,slow=12,SNR=25	17.51	193	Pn	Pn	01 49 46.4	-0.4
FITZ	comp=Z,2.6nm,0.5s,baz=15,slow=23,SNR=3.3	19.76	219	P	Pn	01 50 14.8	+0.6
FITZ	Fitzy Crossi	19.76	219	P	Pn	01 50 13.4	-0.8
FITZ	Fitzy Crossi	19.76	219	P	Pn	01 50 13.4	-0.8
AS31	comp=Z,0.2nm,0.3s,baz=127,slow=13,SNR=3.0	21.21	192	P	P	01 50 28.9	+0.8
ASAR	Alice Springs	21.21	192	P	P	01 50 28.6	+0.4
ASAR	Alice Springs	21.21	192	P	P	01 50 29.1	+0.9
ASAR	comp=Z,15nm,0.8s,baz=20,slow=4,SNR=24	21.21	192	P	P	01 50 29.1	+0.9
MYLDM	comp=Z,4.0nm,0.8s,baz=15,slow=25,SNR=4.3	21.54	292	P	P	01 50 31.3	-0.4
MYLDM	Lahad Datu	21.54	292	I Amb	I Amb	01 50 40.4	
MYLDM	comp=Z,45nm,1.2s	21.54	292	I Amb	I Amb	01 50 40.4	
BBOO	Buckleboor	29.93	184	P	P	01 51 52.6	+2.5
MORW	Morawa	33.76	217	P	P	01 52 25.6	+1.8
NJ2	Nanjing	39.39	333	eP	eP	01 53 13.1	+1.3
TAU	comp=Z,9.0nm,1.6s	40.68	170	P	P	01 53 23.4	+1.0
TAU	Tasmania Unive	40.68	170	I Amb	I Amb	01 53 30.7	
KRSR	comp=Z,23nm,0.8s	41.26	347	P	P	01 53 25.2	-2.0
KRSR	Korea Array	41.26	347	P	P	01 53 25.2	-2.0
CMAR	comp=Z,0.7nm,0.5s,baz=166,slow=7.7,SNR=4.4	44.34	300	P	P	01 53 52.3	-0.2
CMAR	Chiang Mai Arr	44.34	300	P	P	01 53 52.3	-0.2
CMAR	comp=Z,0.7nm,0.3s,baz=127,slow=6.7,SNR=6.4	44.34	300	P	P	01 53 52.3	-0.2
LYN	LuoYang	44.52	329	P	P	01 54 01.8	+8.1
PZH	comp=Z,2.1nm,1.0s	45.97	312	P	P	01 54 07.3	+1.9
USRK	PanZhiHua	47.17	354	P	P	01 54 11.3	-3.1
USRK	Ussuriysk Ar.	47.17	354	P	P	01 54 07.3	+1.9
BNX	comp=Z,0.8nm,0.5s,baz=253,slow=5.8,SNR=4.6	49.34	350	P	P	01 54 30.3	-0.9
BNX	BinXian	49.34	350	P	P	01 54 35.4	-6.3
BNX	BinXian	49.34	350	P	P	01 54 35.4	-6.3
TCW	comp=Z,5.0nm,1.7s	49.93	145	P	P	01 54 38.1	+2.3
HHC	Tory Channel	49.93	145	eP	eP	01 54 37.8	+1.8
HHC	Hu-ho-hao-te	49.93	145	eP	eP	01 54 37.8	+1.8
RTZ	comp=Z,13nm,0.6s	49.97	140	P	P	01 54 37.5	+1.3
BKZ	Ruatahuna	49.97	140	P	P	01 54 37.5	+1.3
SONM	Black Stump Fm	49.97	140	P	P	01 54 37.5	+1.3
SONM	Songino Array	57.74	335	P	P	01 55 22.7	+0.2
SONM	Songino Array	57.74	335	P	P	01 55 31.2	-1.7
HMH	comp=Z,1.2nm,0.6s,baz=154,slow=6.8,SNR=6.5	68.47	68	P	P	01 56 45.1	+0.2
PUH	Humu'ula Sheep	68.47	68	P	P	01 56 44.4	-1.5
MKAR	Pauahi	68.67	68	P	P	01 56 51.3	-0.7
MKAR	Makanchi Array	69.77	322	P	P	01 56 50.5	-1.6
MKAR	Makanchi Array	69.77	322	P	P	01 56 50.5	-1.6
MAKZ	comp=Z,1.1nm,0.4s,baz=117,slow=6.9,SNR=12	69.96	322	P	P	01 56 52.8	-0.5
MAKZ	Makanchi	69.96	322	I Amb	I Amb	01 57 00.6	
KSH	comp=Z,2.2nm,0.5s	71.03	313	P	P	01 57 00.3	+0.2
KSH	Kashi	71.03	313	P	P	01 57 00.3	+0.2
ZALV	comp=Z,2.0nm,0.5s	71.94	330	P	P	01 57 04.5	-0.6
ZALV	Zalesovo Beam	71.94	330	P	P	01 57 02.9	-2.2
ZALV	Zalesovo Beam	71.94	330	P	P	01 57 02.9	-2.2
BOOM	comp=Z,1.1nm,0.6s,baz=119,slow=8.6,SNR=4.2	72.11	316	P	P	01 57 06.0	-0.6
KURBB	Boomskeye usch	72.11	316	P	P	01 57 06.0	-0.6
S12K	Kurchatov Arra	73.71	325	P	P	01 57 14.2	-1.5
S12K	Kurchatov Arra	73.71	325	P	P	01 57 14.2	-1.5
VNDA	comp=Z,1.0nm,0.5s	75.67	30	P	P	01 57 26.8	-0.1
VNDA	Black Hills	75.67	30	P	P	01 57 28.0	+1.1
VNDA	Black Hills	75.67	30	P	P	01 57 28.0	+1.1
VNDA	Vanda	75.69	175	P	P	01 57 27.8	+1.2
VNDA	Vanda	75.69	175	P	P	01 57 27.9	+1.2
CHNA	comp=Z,2.4nm,0.8s,baz=322,slow=6.9,SNR=11	76.55	32	P	P	01 57 33.2	+1.3
CHNA	Chernabura Isl	76.55	32	P	P	01 57 33.2	+1.3
K13K	comp=Z,2.2nm,0.5s	77.55	24	P	P	01 57 38.6	+1.3
K13K	Kusilvak Mount	77.55	24	P	P	01 57 38.6	+1.3
L14K	comp=Z,2.2nm,0.5s	78.06	25	P	P	01 57 40.7	+0.5
L14K	Kulka Creek	78.06	25	P	P	01 57 40.7	+0.5
M14K	comp=Z,2.2nm,0.5s	78.09	26	P	P	01 57 40.8	+0.4
M14K	Bethel	78.09	26	P	P	01 57 41.4	+1.0
J14K	comp=Z,2.2nm,0.5s	78.41	23	P	P	01 57 43.4	+1.3
J14K	Nanvaranak Lak	78.41	23	P	P	01 57 43.4	+1.3
M15K	comp=Z,2.2nm,0.5s	78.61	26	P	P	01 57 44.3	+1.0
M15K	Kasigluk River	78.61	26	P	P	01 57 44.3	+1.0
L15K	comp=Z,2.2nm,0.5s	78.73	25	P	P	01 57 44.9	+1.0
L15K	Ungalak Moutna	78.73	25	P	P	01 57 44.9	+1.0
F14K	comp=Z,2.2nm,0.5s	78.81	20	P	P	01 57 46.0	+1.6
F14K	Arctic Creek	78.81	20	P	P	01 57 46.0	+1.6
K15K	comp=Z,2.2nm,0.5s	79.00	24	P	P	01 57 45.6	+0.2
K15K	Wolf Creek Mou	79.00	24	I Amb	I Amb	01 57 56.8	
K15K	Wolf Creek Mou	79.00	24	P	P	01 57 46.8	+1.4
O16K	comp=Z,2.2nm,0.5s	79.30	28	P	P	01 57 47.8	+0.6
O16K	Kokwok River B	79.30	28	I Amb	I Amb	01 57 49.1	
O16K	Kokwok River B	79.30	28	P	P	01 57 48.2	+1.1
BVAR	comp=Z,2.2nm,0.6s,baz=112,slow=7.7,SNR=9.3	79.30	325	P	P	01 57 46.4	-0.9
BVAR	Borovoye Array	79.30	325	P	P	01 57 46.4	-0.9
N16K	comp=Z,2.2nm,0.6s	79.36	27	P	P	01 57 48.5	+1.0
N16K	Nishilik Lake	79.36	27	P	P	01 57 48.5	+1.0
M16K	comp=Z,1.1nm,1.1s	79.52	26	P	P	01 57 48.9	+0.5
M16K	Timber Creek	79.52	26	I Amb	I Amb	01 57 59.4	
M16K	Timber Creek	79.52	26	P	P	01 57 48.8	+0.5
L16K	comp=Z,2.2nm,0.6s	79.60	25	P	P	01 57 49.4	+0.7
L16K	Owhat River	79.60	25	P	P	01 57 49.4	+0.7
Q16K	comp=Z,2.2nm,0.6s	79.60	29	P	P	01 57 48.9	+0.2
Q16K	King Salmon	79.60	29	P	P	01 57 48.9	+0.2
Q17K	comp=Z,2.2nm,0.6s	79.81	29	P	P	01 57 49.9	-0.2
Q17K	Contact Creek	79.81	29	P	P	01 57 49.9	-0.2
O17K	comp=Z,2.2nm,0.6s	79.83	28	P	P	01 57 49.9	-0.1
O17K	Koliganek Bris	79.83	28	P	P	01 57 49.9	-0.1
J16K	comp=Z,2.2nm,0.6s	79.85	24	P	P	01 57 50.6	+0.6
J16K	Anvik River	79.85	24	P	P	01 57 50.6	+0.6
I17K	comp=Z,2.2nm,0.6s	80.09	23	P	P	01 57 52.0	+0.7
I17K	Unalakleet	80.09	23	P	P	01 57 52.0	+0.7
N17K	comp=Z,2.2nm,0.6s	80.10	27	P	P	01 57 52.4	+0.9
N17K	Nushagak Hills	80.10	27	I Amb	I Amb	01 58 38.9	
N17K	Nushagak Hills	80.10	27	P	P	01 57 52.0	+0.6
G16K	comp=Z,2.2nm,0.6s	80.19	21	P	P	01 57 52.1	+0.4
G16K	Koyuk River	80.19	21	P	P	01 57 52.1	+0.4
L17K	comp=Z,2.2nm,0.6s	80.28	25	P	P	01 57 53.2	+0.8
L17K	Donlin	80.28	25	P	P	01 57 53.2	+0.8
M17K	comp=Z,2.2nm,0.6s	80.34	26	P	P	01 57 53.9	+1.2
M17K	Holitna River	80.34	26	I Amb	I Amb	01 57 55.5	

M17K	comp=Z,6.8nm,0.8s	80.34	26	P	P	01 57 53.3	+0.6
M17K	Holitna River	80.34	26	P	P	01 57 53.3	+0.6
Q18K	comp=Z,2.2nm,0.6s	80.39	29	P	P	01 57 53.0	-0.1
Q18K	Katmal Hardscr	80.39	29	P	P	01 57 53.0	-0.1
J17K	comp=Z,2.2nm,0.6s	80.51	24	P	P	01 57 54.5	+1.0
J17K	VABM Dome	80.51	24	P	P	01 57 54.5	+1.0
K17K	comp=Z,2.2nm,0.6s	80.53	25	I Amb	I Amb	01 57 56.2	
K17K	Iditarod	80.53	25	I Amb	I Amb	01 57 56.2	
K17K	Iditarod	80.53	25	P	P	01 57 54.1	+0.4
OHAK	comp=Z,2.2nm,0.6s	80.73	31	P	P	01 57 54.5	-0.4
OHAK	Old Harbor	80.73	31	P	P	01 57 55.1	+0.3
OHAK	Old Harbor	80.73	31	P	P	01 57 55.1	+0.3
O18K	comp=Z,2.2nm,0.6s	80.74	28	P	P	01 57 55.9	+0.9
O18K	Koktuh Hills	80.74	28	P	P	01 57 55.9	+0.9
N18K	comp=Z,2.2nm,0.6s	80.75	27	P	P	01 57 55.4	+0.5
N18K	Kilae Creek	80.75	27	P	P	01 57 55.4	+0.5
G17K	comp=Z,2.2nm,0.6s	80.86	22	P	P	01 57 55.9	+0.4
G17K	Kiwalik Mouta	80.86	22	P	P	01 57 55.9	+0.4
H17K	comp=Z,2.2nm,0.6s	80.88	22	P	P	01 57 56.4	+0.9
H17K	Granite Mouta	80.88	22	P	P	01 57 56.4	+0.9
L18K	comp=Z,2.2nm,0.6s	81.00	25	P	P	01 57 56.8	+0.6
L18K	Granite Mouta	81.00	25	P	P	01 57 56.8	+0.6
M18K	comp=Z,2.2nm,0.6s	81.09	26	P	P	01 57 57.7	+1.0
M18K	Stony River	81.09	26	P	P	01 57 57.7	+1.0
F17K	comp=Z,2.2nm,0.6s	81.10	21	P	P	01 57 57.4	+0.8
F17K	Baldwin Pennin	81.10	21	P	P	01 57 57.4	+0.8
KDAK	comp=Z,2.2nm,0.6s	81.28	30	P	P	01 57 58.3	+0.5
KDAK	Kodiak Island	81.28	30	P	P	01 57 58.3	+0.5
N19K	comp=Z,2.2nm,0.6s	81.44	27	I Amb	I Amb	01 58 01.2	
N19K	Bonanza Creek	81.44	27	I Amb	I Amb	01 58 01.2	
N19K	Bonanza Creek	81.4					

24d 2h

2019 JUN

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like J30M Hart River, SKAG Skagway, EPYK Eagle Plains, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like BVAR Borovey Array, M16K Timber Creek, M16K Timber Creek, etc.

IDC 24 01:50:01.0 1.0 2.39S:138.64E, h0km, mb3.9/4, mntmp4.06, ML3.8/2, Error ellipse: s-maj=26.6km s-min=24.4km az=48.0

ISC 24 01:50:06.1 1.0 2.55S:138.67E:0.1, h35km, n8, c1f30/9, mb3.9/4, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 24 01:51:57.3 1.3 2.43S:138.44E, h0km, mb3.8/3, mntmp3.9/5, ML3.7/2, Error ellipse: s-maj=28.3km s-min=18.2km az=4.0

DJA 24 01:52:02.0 4.2 2.6S:13.9E, h10km, M3.9/6, MLv3.9/6, c1f12/8, mb3.8/3, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 01:58:56.3 1.4 2.54S:138.51E, h0km, mb3.5/3, mntmp3.6/5, ML3.6/2, Error ellipse: s-maj=28.8km s-min=18.0km az=173.0

DJA 24 01:59:02.0 9.2 2.8S:13.9E, h21km, M3.8/5, mb4.5/1, MLv3.5/5

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 02:02:21.5 1.4 2.51S:138.52E, h0km, mb3.7/3, mntmp3.7/5, ML4.0/1, Error ellipse: s-maj=34.9km s-min=27.0km az=107.0, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 24 02:03:08.9 0.6 2.65S:138.49E, h0km, mb4.2/14, mntmp4.2/18, ML4.5/4, MS4.4/1, Error ellipse: s-maj=14.9km s-min=13.6km az=71.0

NEIC 24 02:03:11.9 1.2 2.71S:138.60E:0.07, h14km, 4km, mb4.7/44, Error ellipse: s-maj=12.8km s-min=9.7km az=175.0

DJA 24 02:03:13.6 0.4 3.5S:13.9E, h10km, M4.6/6, mb4.5/1, MLv4.6/6

ISC 24 02:03:14.2 0.4 2.79S:138.64E:0.05, h35km, n261, c0f94/257, mb4.5/39, 1D, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 24 02:03:08.9 0.6 2.65S:138.49E, h0km, mb4.2/14, mntmp4.2/18, ML4.5/4, MS4.4/1, Error ellipse: s-maj=14.9km s-min=13.6km az=71.0

NEIC 24 02:03:11.9 1.2 2.71S:138.60E:0.07, h14km, 4km, mb4.7/44, Error ellipse: s-maj=12.8km s-min=9.7km az=175.0

DJA 24 02:03:13.6 0.4 3.5S:13.9E, h10km, M4.6/6, mb4.5/1, MLv4.6/6

ISC 24 02:03:14.2 0.4 2.79S:138.64E:0.05, h35km, n261, c0f94/257, mb4.5/39, 1D, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Rows include stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

Table with columns: Station Name, Time, Res, ISC, Code, Station Name, Time, Res, ISC. Includes stations like Q23K Middleton Isla, GLI Glacier Island, SCM Sheep Creek Mo, etc.

Table with columns: Station Name, Time, Res, ISC, Code, Station Name, Time, Res, ISC. Includes stations like G30M tAoh Zraii Nji, WHY Whitehorse, R32K Eaglecrest, etc.

Table with columns: Station Name, Time, Res, ISC, Code, Station Name, Time, Res, ISC. Includes stations like L14K Kuka Creek, M14K Bethel, K15K Wolf Creek Mou, etc.

Table with columns for station ID, name, elevation, date, time, and various data points. Includes stations like P5A00 Pilbara Seismi, STKA Stephens Creek, NJ2 Nanjing, etc.

Table with columns for station ID, name, elevation, date, time, and various data points. Includes stations like J16K Anvik River, H16K Elim, P17K Kiviuk River, etc.

Table with columns for station ID, name, elevation, date, time, and various data points. Includes stations like NEA2 Nenana, I23K Minto, Yukon-K, I23K Minto, Yukon-K, etc.







MHTO	MHTO	82.20	291	P	P	02 56 15.5	-0.9
HOM	Homer	82.22	29	P		02 56 16.1	+0.5
M20K	Styx River	82.28	26	Iamb	Iamb	02 56 17.8	
M20K	Styx River	82.28	26	P		02 56 16.6	+0.5
H19K	Roundabout Moun	82.30	22	P		02 56 16.7	+0.8
G91K	Purcell Mounta	82.32	22	Iamb	Iamb	02 56 19.6	
G19K	Purcell Mounta	82.32	22	P		02 56 16.7	+0.6
BIDO	Bidbid	82.32	294	P		02 56 16.8	-0.2
SMDO	Samad	82.34	294	P		02 56 16.5	-0.7
F19K	Shalercuk Mo	82.36	21	P		02 56 16.8	+0.6
RER	Riviere de l'E	82.37	249	P		02 56 17.3	-0.1
CNPM	China Pool	82.37	29	P		02 56 16.0	-0.5
CNPM	China Pool	82.37	29	Iamb	Iamb	02 56 25.5	
K20K	Telida	82.41	25	Iamb	Iamb	02 56 18.6	
K20K	Telida	82.41	25	P		02 56 17.3	+0.7
N20K	Mount Spurr	82.46	27	P		02 56 16.1	-0.9
SPCR	Spurr Chakacha	82.46	27	P		02 56 17.7	+0.7
DQM	DQM	82.50	290	P		02 56 17.0	-0.9
BRLK	Bradley Lake	82.61	29	Iamb	Iamb	02 56 20.8	
BRSE	Bradley Lake S	82.67	29	P		02 56 17.6	-0.4
J20K	Nowinta River	82.68	24	Iamb	Iamb	02 56 19.9	
J20K	Nowinta River	82.68	24	P		02 56 18.9	+1.0
C19K	Lookout Ridge	82.76	19	Iamb	Iamb	02 56 20.5	
C19K	Lookout Ridge	82.76	19	P		02 56 19.4	+1.0
I20K	Naaghdeneel	82.78	23	P		02 56 19.3	+0.9
E19K	Redstone River	82.82	20	Iamb	Iamb	02 56 21.5	
E19K	Redstone River	82.82	20	P		02 56 19.3	+0.7
A19K	Wainwright	82.83	17	P		02 56 19.7	+1.1
H20K	Anotleneega Mo	82.89	23	P		02 56 19.6	+0.6
D19K	Kuna River	82.97	19	Iamb	Iamb	02 56 20.9	
D19K	Kuna River	82.97	19	P		02 56 19.9	+0.4
SKT	Skwentna	83.03	27	P		02 56 18.7	-1.2
PPLA	Purkeypile	83.04	26	Iamb	Iamb	02 56 21.0	
PPLA	Purkeypile	83.04	26	P		02 56 19.9	-0.2
HOQ	Hogain	83.07	294	P		02 56 20.0	-1.0
BSY	BSY	83.09	283	P		02 56 20.4	-0.7
F20K	Avaraart Lake	83.18	21	Iamb	Iamb	02 56 23.5	
F20K	Avaraart Lake	83.18	21	P		02 56 21.5	+1.0
SUA	Susitna One	83.21	27	Iamb	Iamb	02 56 21.1	
SUA	Susitna One	83.21	27	P		02 56 20.1	-0.9
CAST	Castle Rocks	83.27	25	P		02 56 20.9	-0.2
CHUM	Lake Minchumin	83.33	25	P		02 56 21.9	+0.6
SEW	Seward	83.40	29	P		02 56 21.6	-0.2
IMAR	Indian Mountai	83.50	22	P		02 56 21.7	-0.5
E20K	Nigu River	83.51	20	P		02 56 22.9	+0.6
D20K	Etiuvik River	83.56	19	Iamb	Iamb	02 56 25.1	
D20K	Etiuvik River	83.56	19	P		02 56 22.9	+0.5
RC01	Rabbit Creek A	83.56	28	P		02 56 22.1	-0.5
M22K	Willow	83.59	27	P		02 56 22.2	-0.4
CUT	Chulitna	83.72	26	P		02 56 22.7	-0.7
H12K	Melozitna Rive	83.75	23	P		02 56 24.1	+0.6
ARQ	Aragi	83.77	294	P		02 56 23.8	-0.7
G21K	Allakakt	83.79	22	P		02 56 24.2	+0.6
KTH	Kantishna Hill	83.80	25	Iamb	Iamb	02 56 25.8	
B20K	Meade River	83.93	18	Iamb	Iamb	02 56 26.1	
B20K	Meade River	83.93	18	P		02 56 25.0	+0.7
BPAW	Bear Paw Mtn.	83.95	25	P		02 56 24.0	-0.6
BPAW	Bear Paw Mtn.	83.95	25	Iamb	Iamb	02 56 25.5	
BPAW	Bear Paw Mtn.	83.95	25	P		02 56 24.4	-0.2
PMR	Palmer	83.99	27	Iamb	Iamb	02 56 25.2	
PMR	Palmer	83.99	27	P		02 56 24.7	0.0
PMR	Palmer	83.99	27	P		02 56 24.2	-0.6
TRF	Thorofare Moun	84.04	25	P		02 56 24.4	-0.9
F21K	Alatna River	84.06	21	P		02 56 25.3	+0.3
GHO	Glory Hole Cre	84.14	27	Iamb	Iamb	02 56 26.3	
PWL	Port Wells	84.15	28	P		02 56 25.5	-0.1
KNK	Knik Glacier	84.25	28	P		02 56 26.1	-0.1
MASF	Masati	84.30	296	P		02 56 26.4	-0.8
ASHO	Ashtiyah	84.32	295	P		02 56 26.8	-0.5
E21K	Krinklii River	84.34	20	Iamb	Iamb	02 56 28.3	
E21K	Krinklii River	84.34	20	P		02 56 27.0	+0.5
C21K	Knifblade Rid	84.34	19	P		02 56 27.3	+0.9
MLY	Manley	84.35	24	Iamb	Iamb	02 56 29.2	
MLY	Manley	84.35	24	P		02 56 26.8	+0.2
P23K	Montague Islan	84.36	29	P		02 56 26.9	+0.2
SHME	Shamm	84.38	296	P		02 56 26.7	-0.8
H22K	Ishtalitna Cre	84.38	23	P		02 56 27.3	+0.6
SML	Sawmill	84.42	27	P		02 56 26.9	-0.1
ALNE	Alne	84.54	294	P		02 56 27.7	-0.7
B21K	Ikpikpu River	84.58	19	P		02 56 28.0	+0.5
WAT1	Susitna Watana	84.61	26	P		02 56 27.5	-0.5
ABKAR	Abdul arroy	84.61	320	P		02 56 27.1	-1.1
F22K	John Jerry	84.63	21	P		02 56 28.7	+0.7
A21K	Barrow	84.65	17	P		02 56 28.5	+0.6
G22K	Bettles	84.68	22	P		02 56 28.9	+0.7
M23K	Glacier View	84.69	27	P		02 56 28.2	-0.1
MCK	McKinley	84.70	25	Iamb	Iamb	02 56 28.7	
MCK	McKinley	84.70	25	P		02 56 27.6	-0.7
Q23K	Middleton Isla	84.73	30	P		02 56 28.7	+0.2
GLI	Glacier Island	84.74	28	P		02 56 28.5	-0.1
SCM	Sheep Creek Mo	84.88	27	P		02 56 29.3	-0.1
WAT6	Susitna Watana	84.90	26	P		02 56 29.3	-0.3

NEA2	Nenana	84.90	24	Iamb	Iamb	02 56 31.5	
NEA2	Nenana	84.90	24	P		02 56 29.7	+0.4
D22K	Ayikuk River	84.94	20	P		02 56 30.5	+1.0
I23K	Minto, Yukon-K	84.94	24	P		02 56 29.4	-0.1
I23K	Minto, Yukon-K	84.94	24	Iamb	Iamb	02 56 30.8	
I23K	Minto, Yukon-K	84.94	24	P		02 56 29.7	+0.2
UMZA	Um Al Zommo	84.96	293	P		02 56 29.8	-0.7
E22K	Anaktuvuk Pass	84.98	21	Iamb	Iamb	02 56 31.9	
E22K	Anaktuvuk Pass	84.98	21	P		02 56 30.5	+0.8
FID	Port Fidalgo	85.00	28	Iamb	Iamb	02 56 30.7	
A22K	Minto, Yukon-K	85.01	18	P		02 56 30.2	+0.5
H23K	Yukon River	85.08	23	P		02 56 30.6	+0.4
G23K	Banaza Creek	85.17	22	P		02 56 31.4	+0.8
DHY	Denali Highway	85.19	26	P		02 56 30.9	-0.2
B22K	Teshkepuk Lake	85.23	18	Iamb	Iamb	02 56 32.2	
B22K	Teshkepuk Lake	85.23	18	P		02 56 31.1	+0.3
COLD	Coldfoot	85.26	22	P		02 56 32.0	+0.9
WRH	Wood River Hill	85.27	25	Iamb	Iamb	02 56 31.9	
EYAK	Cordova Ski Ar	85.30	29	P		02 56 32.8	+1.4
EYAK	Cordova Ski Ar	85.30	29	P		02 56 31.3	0.0
CCB	Clear Creek Bu	85.44	24	Iamb	Iamb	02 56 32.4	
KLU	Klutina	85.44	28	Iamb	Iamb	02 56 33.5	
KLU	Klutina	85.44	28	P		02 56 32.4	+0.2
M24K	Tolsona, Glenn	85.48	27	P		02 56 32.7	+0.4
COLA	College	85.48	24	P		02 56 31.7	-0.5
COLA	College	85.48	24	Iamb	Iamb	02 56 33.1	
COLA	College	85.48	24	P		02 56 33.2	+1.0
COLA	College	85.48	24	P		02 56 31.0	-1.2
COLA	College	85.48	24	P		02 56 32.3	+0.2
DOK	Doka	85.59	289	P		02 56 33.0	-0.7
SVE	Sverdlovsk	85.64	327	P		02 56 32.4	-0.8
D23K	Nanushuk River	85.65	20	P		02 56 34.3	+1.3
HDA	Harding Lake	85.73	25	Iamb	Iamb	02 56 34.1	
HDA	Harding Lake	85.73	25	P		02 56 32.2	-1.3
E23K	Chandler	85.73	21	P		02 56 34.6	+1.1
H24K	Noodor Dome	85.74	23	Iamb	Iamb	02 56 36.1	
H24K	Noodor Dome	85.74	23	P		02 56 33.9	+0.3
RAGM	Ragged Moutai	85.78	29	Iamb	Iamb	02 56 35.2	
KAIM	Kayak Island	85.80	29	P		02 56 34.5	+0.5
IL31	Il-31	85.85	24	Iamb	Iamb	02 56 33.5	
ILAR	Eielson Array	85.85	24	P		02 56 32.5	-1.6
WHFO	Whitstone	85.88	288	P		02 56 34.4	-0.9
TOLK	Took Lake Re	85.93	20	P		02 56 35.2	+0.7
BMRM	Bremner River	85.94	28	Iamb	Iamb	02 56 35.8	
BMRM	Bremner River	85.94	28	P		02 56 34.8	+0.1
C23K	Itkilik River	85.96	19	P		02 56 35.1	+0.6
HMT	Hamilton	85.97	29	Iamb	Iamb	02 56 36.0	
PAX	Paxson	86.01	26	P		02 56 34.9	-0.1
HARP	HAARP	86.01	27	P		02 56 35.1	+0.1
K24K	Donnelly Dome	86.07	26	Iamb	Iamb	02 56 36.5	
K24K	Donnelly Dome	86.07	26	P		02 56 35.0	-0.3
N25K	Chitina, Valde	86.09	28	Iamb	Iamb	02 56 36.8	
N25K	Chitina, Valde	86.09	28	P		02 56 35.8	+0.4
G24K	Hadweenczi Riv	86.13	23	Iamb	Iamb	02 56 38.2	
G24K	Hadweenczi Riv	86.13	23	P		02 56 36.2	+0.8
E24K	Your Creek	86.14	21	P		02 56 36.1	+0.6
F24K	Squaw Lake	86.20	22	Iamb	Iamb	02 56 38.0	
F24K	Squaw Lake	86.20	22	P		02 56 36.8	+0.9
D24K	Happy Valley	86.24	20	P		02 56 37.5	+1.1
GLB	Gilahina Butte	86.42	28	Iamb	Iamb	02 56 38.1	
J25K	Salcha River	86.44	25	Iamb	Iamb	02 56 38.5	
J25K	Salcha River	86.44	25	P		02 56 36.3	-0.8
RIDG	Independent Riv	86.46	26	Iamb	Iamb	02 56 37.9	
RIDG	Independent Riv	86.46	26	P		02 56 37.0	-0.2
MZR	Muzera	86.53	293	P		02 56 37.4	-0.9
C24K	Franklin Bluff	86.56	19	Iamb	Iamb	02 56 39.2	
C24K	Franklin Bluff	86.56	19	P		02 56 38.1	+0.7
CRQE	Chitina, Valde	86.62	29	P		02 56 38.4	+0.3
H25L	Birch Creek	86.66	23	P		02 56 38.8	+0.8
G25K	Beaman Lake	86.68	23	P		02 56 39.9	+0.9
WAX	Waxell Ridge	86.68	29	Iamb	Iamb	02 56 39.8	
TGL	Tana Glacier	86.75	29	Iamb	Iamb	02 56 40.0	
MCARA	McCarthy VSAT	86.78	28	P		02 56 39.2	+0.4
MENT	Mentasta	86.78	27	Iamb	Iamb	02 56 40.0	
MENT	Mentasta	86.78	27	P		02 56 39.3	+0.6
ARTI	Arti	86.78	327	P		02 56 36.6	-2.2
ARTI	Arti	86.78	327	P		02 56 37.0	-1.8
ARTI	Arti	86.78	327	P		03 07 01.4	-1.9
SCRK	Sand Creek	86.88	26	P		02 56 39.1	-0.2
L26K	Log Cabin Wild	86.96	27	Iamb	Iamb	02 56 41.0	
L26K	Log Cabin Wild	86.96	27	P		02 56 39.9	+0.3
M26K	Nabesna, AK	87.00	27	P		02 56 40.1	+0.3
F25K	Christian Riv	87.06	22	Iamb	Iamb	02 56 42.2	
F25K	Christian Riv	87.06	22	P		02 56 41.1	+1.1
MESA	M						



Table with columns: Station Name, Frequency, Power, Class, and other technical details. Includes stations like ULN, SONM, PEAOB, etc.

Table with columns: Station Name, Frequency, Power, Class, and other technical details. Includes stations like M16K, F15K, L16K, etc.

Table with columns: Station Name, Frequency, Power, Class, and other technical details. Includes stations like PPLA, F20K, F20K, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Kayak Island, Elison Array, Toolik Lake, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Dawson, Dawson, Outpost Mounta, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Mm-0.76, Mm-0.43, Mm-0.47, etc.







BNX		sS	sS	03 10 55.6 +0.5	
BNX		pmax	pmax		
BNX	comp=Z,1µm,1.9s	LR	LR		
BNX	comp=Z,40µm,21.8s	LR	LR		
BNX	comp=Z,38µm,22.0s	LR	LR		
BNX	comp=Z,91µm,19.4s	LR	LR		
LKBA	Tubou, Lakemba	51.92 108	P	P	03 02 27.7 +1.1
NEZ	North Egmont	51.93 136	P	P	03 02 28.7 +2.3
KREI	Durham Road	51.96 136	P	P	03 02 28.9 +2.3
DNZT	KHUNTI	51.99 306	eP	P	03 02 27.4 +0.4
KNTI			Iamb	Iamb	03 02 33.1
EAZ	Earnsclough	51.99 145	P	P	03 02 27.1 +0.4
KUZ	Kuatoonu	52.00 132	P	P	03 02 28.3 +1.4
KUZ	Kuatoonu	52.00 132	P	P	03 02 28.8 +1.9
PREZ	Palmer Road	52.00 136	P	P	03 02 28.9 +2.9
LBZ	Lake Benmore	52.02 143	P	P	03 02 28.0 +1.1
HIZ	Hauiti	52.12 135	P	P	03 02 28.9 +1.1
HIZ	Hauiti	52.12 135	P	P	03 02 29.5 +1.8
HIZ	Hauiti	52.12 135	P	P	03 02 30.0 +2.3
RPZ	Rata Peaks	52.17 142	P	P	03 02 29.1 +1.1
RPZ	Rata Peaks	52.17 142	P	P	03 02 29.7 +1.7
APZ	The Paps	52.22 147	P	P	03 02 29.6 +1.2
LREZ	Lake Rotokare	52.23 136	P	P	03 02 31.5 +3.0
TOZ	Tahuroa Road	52.25 134	P	P	03 02 31.0 +2.3
FUTU	Fugatoga	52.27 103	Iamb	Iamb	03 02 37.2
FUTU	Fugatoga	52.27 103	P	P	03 02 30.8 +1.6
FUTU	Fugatoga	52.27 103	P	P	03 02 32.0 +2.8
THZ	Tophouse	52.32 139	Iamb	Iamb	03 02 42.1
THZ	Tophouse	52.32 139	P	P	03 02 30.1 +1.0
YZ	Vera Road	52.32 135	P	P	03 02 31.3 +2.1
NNZ	Nelson	52.36 138	P	P	03 02 30.0 +0.6
NNZ	Nelson	52.36 138	P	P	03 02 30.9 +1.0
MDRS	Chennai	52.37 292	eP	P	03 02 36.8
MDRS			Iamb	Iamb	
YUK	Yuzh-Kuril'sk	52.39 15	eP	P	03 02 29.6 +0.1
YUK			i*PP	pwP	03 03 19.9 -3.1
YUK			i	S	03 09 36.3 -1.5
YUK					03 11 55.3
YUK	comp=Z,6µm,1.1s		pmax	pmax	
YUK	comp=N,777nm,0.9s		pmax	pmax	
YUK	comp=E,2µm,1.2s		pmax	pmax	
YUK	comp=Z,10µm,2.0s		pmax	pmax	
LTZ	Lake Taylor	52.43 141	P	P	03 02 31.2 +1.2
TMZ	Timaru	52.51 143	P	P	03 02 31.5 +1.0
TLZ	Tolky Road	52.52 144	P	P	03 02 31.6 +0.7
OXZ	Oxford	52.57 141	P	P	03 02 31.6 +0.7
MYRZ	Mayor Island	52.60 133	P	P	03 02 33.6 +2.4
TUZ	Tuapeka	52.60 145	P	P	03 02 32.1 +1.0
KMRZ	Kaimai	52.61 134	P	P	03 02 33.1 +1.7
ODZ	Otauhu Downs	52.66 144	P	P	03 02 31.5 -0.1
ODZ	Otauhu Downs	52.66 144	P	P	03 02 32.5 +0.9
ODZ	Otauhu Downs	52.66 144	↑P	P	03 02 32.0 +0.4
SYZ	Scrubby Hill	52.67 146	P	P	03 02 32.8 +1.2
SYZ	Scrubby Hill	52.67 146	P	P	03 02 32.4 +0.8
JWKZ	Keihoku	52.71 11	P	P	03 02 32.4 +0.6
WAZ	Wanganui	52.76 136	P	P	03 02 34.4 +2.0
TWVZ	Taurewa	52.77 135	P	P	03 02 32.7 +0.1
TGRZ	Tauranga	52.80 133	P	P	03 02 34.7 +2.0
KUTZ	Kaahu Road	52.80 134	P	P	03 02 35.1 +2.4
PKVZ	Pokaka	52.80 135	P	P	03 02 34.3 +1.5
WATZ	Wairara	52.83 135	P	P	03 02 35.4 +2.4
TUWZ	Tuamarina	52.83 136	P	P	03 02 32.7 +0.1
AMCZ	Amberley	52.92 135	P	P	03 02 33.3 +0.1
WTVZ	West Tongariro	52.90 135	P	P	03 02 35.6 +2.0
KARZ	Kaharoa	52.90 134	P	P	03 02 35.7 +2.3
COVZ	Chateau Observ	52.90 135	P	P	03 02 35.5 +1.9
KATZ	Kakarama	52.91 135	P	P	03 02 35.9 +2.2
RAIZ	Rangitukia	52.92 135	P	P	03 02 35.2 +2.3
NNVZ	North Ngauruhoe	52.92 135	P	P	03 02 35.9 +2.1
KRVZ	Karewarewa	52.93 135	P	P	03 02 35.9 +2.1
UTU	Utuhina	52.93 134	P	P	03 02 36.5 +2.8
MTVZ	Mangateitei	52.93 135	P	P	03 02 35.9 +2.1
NGVZ	Ngauruhoe	52.93 135	P	P	03 02 35.9 +2.1
GRRZ	Galiatos Road	52.94 134	P	P	03 02 36.1 +2.3
TRVZ	Turoa	52.95 135	P	P	03 02 35.8 +1.8
TCW	Tory Channel	52.95 138	P	P	03 02 33.4 -0.4
NTVZ	North Tongariro	52.95 135	P	P	03 02 35.6 +1.6
SNVZ	South Ngauruhoe	52.97 135	P	P	03 02 36.1 +2.0
WHTZ	Whakarewa	52.97 135	P	P	03 02 36.3 +0.9
WHVZ	Whangape Hut	52.97 135	P	P	03 02 36.4 +2.2
OTVZ	Oturere	52.97 135	P	P	03 02 36.3 +2.1
TMVZ	Te Maari	52.98 135	P	P	03 02 36.4 +2.2
ETVZ	East Tongariro	52.99 135	P	P	03 02 36.4 +2.1
WNVZ	Whianoho	53.00 135	P	P	03 02 35.7 +1.4
GVZ	Greta Valley S	53.01 141	P	P	03 02 35.9 +0.9
GVZ			Iamb	Iamb	03 02 41.3
GVZ	Greta Valley S	53.01 141	P	P	03 02 35.5 +1.3
TUVZ	Tukino	53.01 135	P	P	03 02 36.5 +2.1
HISZ	Hossock Road	53.02 137	P	P	03 02 36.7 +2.2
OMRZ	Omania	53.03 134	P	P	03 02 36.6 +2.2
RITZ	Rihia Road	53.03 135	P	P	03 02 36.9 +2.5
KHZ	Kahutara	53.05 140	Iamb	Iamb	03 02 39.6
KHZ	Kahutara	53.05 140	P	P	03 02 35.7 +1.3
KHZ	Kahutara	53.05 140	P	P	03 02 35.3 +0.9
KHZ	Kahutara	53.05 140	↑P	P	03 02 34.6 +0.2
WPRZ	Whakapapatarin	53.05 134	P	P	03 02 36.7 +2.1
OPRZ	Ohinepanea	53.05 133	P	P	03 02 36.1 +1.6
HLRZ	Highlands Stat	53.08 134	P	P	03 02 37.4 +2.6
GTA	Gaotai	53.18 296	↑P	P	03 02 37.9 +1.4
GTA			pP	pP	03 03 21.8 -0.5
GTA			ScP	ScP	03 07 17.8 +1.3
GTA			S	S	03 09 45.4 -2.4
GTA			sS	sS	03 11 13.8 +2.1
GTA			ScS	ScS	03 12 01.3 -0.4
GTA			pmax	pmax	
GTA	comp=Z,1µm,1.4s		pmax	pmax	
GTA	comp=Z,42µm,10.8s		LR	LR	
GTA	comp=Z,148µm,21.9s		LR	LR	
GTA	comp=Z,137µm,19.9s		LR	LR	
GTA	comp=Z,125µm,23.1s		LR	LR	
HRRZ	Handcock Road	53.08 134	P	P	03 02 37.3 +2.5
MKRZ	Makatiti	53.11 134	P	P	03 02 37.5 +2.4
HVZ	Highcliff Hill	53.11 145	P	P	03 02 37.0 +2.1
MOZ	Moawhango	53.14 135	P	P	03 02 36.3 +1.0
MQZ	McQueen's Vall	53.15 141	Iamb	Iamb	03 02 38.3
MQZ	McQueen's Vall	53.15 141	P	P	03 02 36.5 +1.4
HATZ	Hinemaia	53.16 134	P	P	03 02 37.2 +1.9
TARZ	Mouti Tarawera	53.18 135	P	P	03 02 38.2 +2.6
WJD	Waiyawa	53.18 296	↑P	P	03 02 37.9 +1.4
OHVZ	Ohakea	53.19 136	P	P	03 02 37.9 +2.5
ALRZ	Allen Road	53.20 134	P	P	03 02 38.1 +2.4
MARZ	Manawahe	53.20 133	P	P	03 02 38.4 +2.7
GOMU	GeErMu	53.27 325	P	P	03 02 37.4 +0.8
GOMU			PcP	PcP	03 03 43.8 +2.5
GOMU			S	S	03 03 42.8 -8.1
GOMU			pmax	pmax	
GOMU	comp=Z,380nm,1.7s		LR	LR	
GOMU	comp=Z,120µm,21.2s		LR	LR	
GOMU	comp=Z,69µm,21.6s		LR	LR	
GOMU	comp=Z,24µm,17.5s		LR	LR	
SNZO	South Karori	53.28 138	P	P	03 02 35.6 -0.5
SNZO			Iamb	Iamb	03 02 40.5
SNZO	comp=Z,2µm,1.1s				
SNZO	South Karori	53.28 138	P	P	03 02 36.7 +0.6
SNZO	South Karori	53.28 138	P	P	03 02 36.0 -0.1
SNZO	South Karori	53.28 138	↑P	P	03 02 35.9 -0.4
EDRZ	Edgcombe	53.29 134	P	P	03 02 38.9 +2.5
MNZS	Menzies Bay Ba	53.31 141	P	P	03 02 38.1 +1.7
WEL	Wellington	53.31 138	P	P	03 02 36.7 +0.3
MRHZ	Matea Rd	53.36 134	P	P	03 02 38.1 +1.2
WHRZ	Whale Island	53.36 133	P	P	03 02 39.2 +2.3

WIZ	White Island	53.39 133	P	P	03 02 38.6 +1.6
BHW	Baring Head	53.44 138	P	P	03 02 37.3 0.0
MUGZ	Murupara	53.47 134	P	P	03 02 38.9 +1.3
BKZ	Black Stump Fm	53.55 135	Iamb	Iamb	03 02 43.6
BKZ	Black Stump Fm	53.55 135	P	P	03 02 39.0 +0.7
BKZ	Black Stump Fm	53.55 135	P	P	03 02 39.2 +0.9
TSZ	Takapari Road	53.57 136	P	P	03 02 38.9 +0.5
MRZ	Mangatainoko R	53.57 137	Iamb	Iamb	03 02 42.6
MRZ	Mangatainoko R	53.57 137	P	P	03 02 38.7 +0.4
POWZ	Post Office Ro	53.58 136	P	P	03 02 38.9 +0.6
KWHZ	Kaweka Forest	53.62 135	P	P	03 02 39.7 +1.0
URZ	Urewera	53.62 134	P	P	03 02 39.4 +0.7
URZ	Urewera	53.62 134	P	P	03 02 38.8 +0.1
URZ	Urewera	53.62 134	↑P	P	03 02 38.7 +0.1
HOWZ	Holdsforth Sta	53.63 137	P	P	03 02 38.8 +0.1
PNHZ	Pukenui	53.67 136	P	P	03 02 39.4 +0.3
KRHZ	Kereru	53.67 135	P	P	03 02 40.0 +0.9
RTZ	Ruatuhuna	53.67 134	Iamb	Iamb	03 02 47.5
RTZ	Ruatuhuna	53.67 134	P	P	03 02 40.1 +1.0
NMHZ	Naumai	53.75 135	P	P	03 02 41.5 +1.8
PRWZ	Port Road	53.79 137	P	P	03 02 40.4 +0.5
DVHZ	Dannevirke	53.81 136	P	P	03 02 40.6 +0.5
THWZ	Timock	53.83 137	P	P	03 02 41.8 +0.3
WPHZ	Waipukurau	53.90 136	P	P	03 02 41.6 +0.9
HAZ	Te Kaha	53.91 133	P	P	03 02 41.2 +0.4
RUGZ	Raukumara Rang	53.92 133	P	P	03 02 41.1 +0.1
ARHZ	Aropanoani	53.95 135	P	P	03 02 42.5 +1.4
MWZ	Matawai	53.95 133	P	P	03 02 42.0 +0.8
KUR	Kuril'sk	54.03 162	↑P	P	03 03 47.4 -1.0
KUR			e	S	03 04 44.0
KUR			i	S	03 09 58.2 -1.8
KUR			S	S	03 12 07.8
KUR			SS	SS	03 13 47.2 +2.1
KUR			eSS	pmax	03 15 54.4
KUR	comp=Z,66µm,9.0s		pmax	pmax	
KUR	comp=Z,6µm,1.3s		MLR	MLR	
KUR	comp=N,26µm,18.0s		MLR	MLR	
KUR	comp=E,54µm,18.0s		MLR	MLR	
KUR	comp=Z,73µm,18.0s		MLR	MLR	
BFZ	Birch Farm	54.04 137	P	P	03 02 42.6 +0.9
BFZ	Birch Farm	54.04 137	P	P	03 02 41.9 +0.3
CPWZ	Castlepoint	54.11 137	P	P	03 02 43.8 +1.7
PRHZ	Porangahau	54.12 136	P	P	03 02 43.0 +0.7
BLSP	Bilaspar	54.15 303	eP	P	03 02 42.3 -0.5
KOD	Kodaikanal	54.15 287	eP	P	03 02 43.9 +0.6
KOD			Iamb	Iamb	03 02 52.2
PWZ	Pawanui	54.18 136	P	P	03 02 44.3 +1.6
PXZ	Papakura	54.18 136	P	P	03 02 44.3 +0.6
MXZ	Matakoao Point	54.22 132	P	P	03 02 44.5 +1.5
MXZ	Matakoao Point	54.22 132	P	P	03 02 44.3 +1.3
KNZ	Kokohu	54.33 134	P	P	03 02 44.2 +0.4
PUZ	Puketiti	54.38 133	P	P	03 02 44.8 +0.6
YSS	Yuzhno-Sakhali	54.45 11	Iamb	Iamb	03 02 44.3 -0.1
YSS					03 02 52.2
YSS	comp=Z,2µm,1.2s				
YSS	Yuzhno-Sakhali	54.45 11	↑P	P	03 02 45.8 +1.4
YSS	Yuzhno-Sakhali	54.45 11	i	P	03 02 44.8 +0.3
YSS			e*PP	pP	03 03 32.6 +0.6
YSS			e	sP	03 03 37.3
YSS			e	S	03 04 52.9
YSS			ePPP	PPP	03 06 08.7
YSS			eS	S	03 10 03.7 -1.8
YSS			eSS	SS	03 12 03.9 -5.9
YSS			e	S	03 12 09.9
YSS			eSS	SS	03 13 48.3 -3.2
YSS			eSSS	SSS	0



PPT2	comp=Z,85um,30.8s	eS	S	03 15 05.7	-2.6	TNA	comp=Z,2um,1.2s	84.93	22	P	P	03 05 50.9	+1.2	J17K	baz=251,SNR=500	S	S	03 16 27.1	+2.0		
PPT2	comp=Z,24um,25.5s	eSS	SS	03 20 19.7	-2.6	TNA	baz=243,SNR=64			S	S	03 16 01.7	+2.5	D17K	baz=251,SNR=570	87.60	21	P	P	03 06 03.4	+0.7
PPT2	comp=Z,217um,29.8s	eLQ	LQ	03 27 06.5		S14K	baz=243	85.02	32	P	S	03 05 51.3	+0.8	D17K	baz=247,SNR=570			S	S	03 16 25.6	+0.8
PPT2	comp=Z,36um,26.8s	eLR	LR	03 30 29.6		S14K	baz=251,SNR=141			S	S	03 16 01.8	+1.1	G17K	baz=247	87.67	23	P	P	03 06 03.6	+0.5
PPT	comp=Z,38um,22.5s	eLR	LR	03 30 41.6		O14K	baz=251	85.18	29	Iamb	Iamb	03 05 58.7		G17K	baz=249,SNR=394			S	S	03 16 27.2	+1.5
PPT	Papeete	79.71	107	P	P	03 05 23.8	0.0							M17K	baz=249	87.69	27	P	P	03 06 04.5	+1.2
PPTF	comp=Z,170nm,0.8s,slow=9.0,SNR=19													M17K	baz=252,SNR=139			S	S	03 16 29.7	+3.7
SPIA	Pamatai	79.72	107	P	P	03 05 27.6	+3.6							K17K	baz=249	87.71	26	Iamb	Iamb	03 06 10.3	
SPIA	Saint Paul Isl	79.99	29	P	P	03 05 25.4	+1.0							K17K	comp=Z,2um,1.1s	87.71	26	P	P	03 06 04.2	+0.9
SPIA	baz=241			S	S	03 15 11.9	+2.4							K17K	baz=252,SNR=638			S	S	03 16 28.6	+2.4
TVO	Taravao	80.01	107	eP	P	03 05 28.9	+4.4							ATD	baz=252	87.75	282	P	P	03 06 07.6	+3.0
TVO	comp=Z,743nm,1.4s			eP	P	03 05 28.9	+4.4							H17K	comp=Z,1um,1.3s	87.77	24	Iamb	Iamb	03 06 10.8	
TVO	Taravao	80.01	107	eP	P	03 05 28.9	+4.4							H17K	comp=Z,1um,1.3s	87.77	24	P	P	03 06 04.0	+0.4
TVO	comp=Z,743nm,1.4s			eP	P	03 06 11.1	-6.0							H17K	baz=250,SNR=311			S	S	03 16 27.9	+1.2
TVO	comp=Z,500nm,1.4s			eP	P	03 15 06.1	-5.3							F17K	baz=250	87.78	22	P	P	03 06 04.2	+0.7
TVO	comp=Z,12um,28.9s			eS	S	03 20 21.9	-4.8							F17K	baz=249	87.78	22	P	P	03 16 27.7	+1.1
TVO	comp=Z,4um,23.0s			eLQ	LQ	03 27 15.1								ACHA	comp=Z,4um,1.7s	87.79	31	Iamb	Iamb	03 06 09.7	
TVO	comp=Z,8um,26.3s			eLR	LR	03 30 38.2								RDOG	comp=Z,1um,1.5s	87.80	20	P	P	03 06 04.5	+0.8
TVO	comp=Z,8um,21.9s			eLR	LR	03 30 38.2								RDOG	comp=Z,1um,1.5s	87.80	20	P	P	03 16 25.6	-1.2
P08K	Saint George I	80.06	29	P	P	03 05 26.1	+1.3							E17K	comp=Z,2um,1.1s	87.81	21	P	P	03 06 04.5	+0.9
P08K	baz=242			S	S	03 15 12.2	+2.0							E17K	baz=248,SNR=80			S	S	03 16 27.8	+0.9
P08K	baz=242			S	S	03 15 12.2	+2.0							AKT	baz=248	87.87	312	eP	eP	03 06 02.2	-2.5
FOMA	Nahampoana Res	80.34	246	Iamb	Iamb	03 05 33.8								AKT	comp=Z,3um,1.6s			pmax	pmax	03 06 56.1	-1.0
FOMA	Unalaska Valle	80.40	33	P	P	03 05 27.7	+1.1							AKT	comp=N,975nm,0.8s			pmax	pmax	03 07 19.2	-0.4
UNV	Unalaska Valle	80.40	33	P	P	03 05 27.4	+0.8							AKT	comp=E,1um,1.1s			smax	smax	03 09 33.2	
UNV	baz=245,SNR=166			S	S	03 15 15.7	+1.8							AKT	comp=N,25um,4.1s			smax	smax	03 16 08.0	-4.0
ABPO	Abomohpanom	80.42	252	P	P	03 05 27.9	+0.1							AKT	comp=Z,7um,1.7s			pmax	pmax	03 06 02.2	-2.5
ABPO	comp=Z,2um,1.7s			Iamb	Iamb	03 05 34.2								AKT	comp=Z,3um,1.6s			pmax	pmax	03 07 19.2	-0.4
ABPO	Abomohpanom	80.42	252	P	P	03 05 27.9	+0.1							AKT	comp=E,1um,1.1s			smax	smax	03 09 33.2	
ABPO	comp=Z,2um,1.7s			pmax	pmax	03 05 27.9	+0.1							AKT	comp=N,25um,4.1s			smax	smax	03 16 08.0	-4.0
JRN	Garnin Island	80.45	297	P	P	03 05 28.8	+1.2							AKT	comp=Z,7um,1.7s			pmax	pmax	03 06 04.2	+0.2
JRN	SNR=139			P	P	03 05 29.0	+1.4							C17K	baz=247,SNR=410	87.87	20	P	P	03 16 26.7	-0.9
VOI	Vohitsoka	80.67	249	Iamb	Iamb	03 05 35.3								SII	baz=247	87.95	33	Iamb	Iamb	03 06 13.7	
VOI	comp=Z,3um,1.4s			P	P	03 05 30.9	+1.9							SII	comp=Z,1um,1.0s	87.95	33	P	P	03 06 06.0	+1.4
AKUT	Vohitsoka	80.67	249	P	P	03 05 30.4	+1.0							SII	baz=255,SNR=50	87.95	33	P	P	03 06 25.1	+0.5
AKUT	AKutan	80.91	33	P	P	03 05 30.4	+1.0							SII	comp=Z,2um,1.1s	87.95	33	P	P	03 16 09.5	+0.7
SLWR	Sila	81.32	295	P	P	03 05 34.0	+1.8							Q18K	baz=255	88.07	30	P	P	03 06 05.5	+0.3
PMOR	Pomario Rio	81.50	104	eP	P	03 05 37.6	+4.3							Q18K	baz=254	88.07	32	P	P	03 06 05.3	+0.3
PMOR	comp=Z,2um,1.1s			eP	P	03 05 36.0	+2.7							R18K	baz=255	88.07	32	P	P	03 16 29.0	-0.6
PMOR	comp=Z,855nm,1.1s			eP	P	03 06 22.4	-2.6							P18K	baz=254,SNR=71	88.16	30	P	P	03 16 29.2	-1.4
PMOR	comp=Z,63um,25.3s			eS	S	03 15 25.9	-0.8							N18K	baz=254	88.19	28	P	P	03 06 06.4	+0.7
PMOR	comp=Z,15um,24.2s			eLQ	LQ	03 27 43.4								N18K	baz=254,SNR=192	88.19	28	P	P	03 16 33.0	+2.2
PMOR	comp=Z,29um,25.8s			eLR	LR	03 31 17.2								L18K	comp=Z,2um,1.3s	88.27	27	P	P	03 06 06.8	+0.8
PMOR	comp=Z,41um,22.7s			Iamb	Iamb	03 05 40.7								L18K	baz=253,SNR=396	88.27	27	P	P	03 16 32.4	+1.0
AB31	Akbulak array	81.57	322	Iamb	Iamb	03 05 32.9	-0.1							O18K	baz=253	88.29	29	P	P	03 06 07.0	+0.9
AB31	comp=Z,1um,0.9s			iP	P	03 05 32.4	-0.6							O18K	baz=254	88.30	313	d	iP	03 06 04.9	-1.6
ABKAR	Akbulak array	81.57	322	P	P	03 05 32.4	-0.6							MAK	comp=Z,2um,5.5s	88.38	21	P	P	03 06 06.6	+0.2
ABKAR	comp=Z,1um,0.9s			Iamb	Iamb	03 05 40.7								MAK	baz=249,SNR=308			S	S	03 16 32.4	+0.2
VAH	Vaihoa	81.74	104	eP	P	03 05 38.6	+4.1							F18K	baz=249	88.44	22	P	P	03 06 07.4	+0.8
VAH	comp=Z,2um,1.4s			eP	P	03 05 36.8	+2.3							F18K	baz=250,SNR=52	88.44	22	P	P	03 16 32.7	-0.1
VAH	comp=Z,739nm,1.2s			eP	P	03 06 22.9	-3.4							M18K	baz=250	88.45	28	P	P	03 06 07.4	+0.6
VAH	comp=Z,50um,24.5s			eS	S	03 15 22.6	-6.6							M18K	baz=254	88.46	24	P	P	03 16 35.2	+2.0
VAH	comp=Z,15um,24.1s			eLQ	LQ	03 27 43.1								H18K	baz=251,SNR=301	88.46	24	P	P	03 06 06.7	-0.1
VAH	comp=Z,13um,23.1s			eLR	LR	03 31 23.1								G18K	baz=251	88.59	23	P	P	03 06 34.3	+1.1
VAH	comp=Z,25um,22.7s			Iamb	Iamb	03 05 36.6	+1.6							G18K	baz=251,SNR=195	88.59	23	P	P	03 06 07.2	-0.3
TRNA	Turayna	81.87	296	P	P	03 05 38.0	+1.1							O18K	comp=Z,2um,1.3s			pmax	pmax	03 16 34.4	+0.1
SMRA	Abu-Samra	82.22	296	P	P	03 05 38.7	+1.4							OHAK	baz=251	88.59	32	Iamb	Iamb	03 06 14.8	
SHMA	Al-Sheemyia	82.31	297	P	P	03 05 38.7	+1.4							OHAK	comp=Z,1um,1.2s	88.59	32	P	P	03 06 08.2	+0.9
FALS	False Pass	82.46	33	Iamb	Iamb	03 05 43.8								OHAK	baz=256,SNR=167	88.59	32	P	P	03 06 08.4	+0.6
FALS	comp=Z,2um,0.7s			P	P	03 05 38.4	+1.0							OHAK	baz=256	88.61	20	P	P	03 16 33.9	-0.7
FALS	False Pass	82.46	33	P	P	03 05 38.7	+1.3							C18K	comp=Z,2um,1.3s			pmax	pmax	03 16 37.5	-1.0
FALS	False Pass	82.46	33	P	P	03 05 38.7	+1.3							C18K	baz=249,SNR=229	88.61	20	P	P	03 06 07.4	-0.1
FALS	baz=248,SNR=87			S	S	03 15 35.6	+0.7							C18K	baz=256	88.61	20	P	P	03 16 33.5	-1.0
GAMB	Gambell	82.64	23	Iamb	Iamb	03 05 46.4								J18K	baz=249	88.62	26	Iamb	Iamb	03 06 14.6	
GAMB	comp=Z,3um,1.4s			P	P	03 05 39.7	+1.6														

24d 2h

KDAK	Kodiak Island	89.09	32	P	Iamb	P	03 06 10.2 +0.3
KDAK	Kodiak Island	89.09	32	P	Pmax	Pmax	03 06 10.2 +0.3
KDAK	Kodiak Island	89.09	32	P	P	P	03 06 10.4 +0.5
KDAK	Kodiak Island	89.09	32	P	S	S	03 06 39.4 +0.1
P19K	Oil Pt	89.21	30	P	P	P	03 06 10.5 0.0
P19K	Oil Pt	89.21	30	P	S	S	03 06 38.0 -2.4
A19K	Wainwright	89.22	19	P	P	P	03 06 10.9 +0.7
A19K	Wainwright	89.22	19	P	S	S	03 06 39.0 -0.9
F19K	Shalercukik Mo	89.22	22	P	P	P	03 06 10.5 +0.2
F19K	Shalercukik Mo	89.22	22	P	S	S	03 06 38.6 -1.6
M19K	Big River Lodg	89.22	27	P	P	P	03 06 11.3 +0.8
M19K	Big River Lodg	89.22	27	P	S	S	03 06 41.2 +0.8
J19K	Poornin	89.24	25	P	P	P	03 06 10.9 +0.4
J19K	Poornin	89.24	25	P	S	S	03 06 40.9 +0.4
G19K	Purcell Moun	89.27	23	Iamb	Iamb	Iamb	03 06 17.7
G19K	Purcell Moun	89.27	23	P	P	P	03 06 10.8 +0.2
G19K	Purcell Moun	89.27	23	P	S	S	03 06 40.3 -0.4
C19K	Lookout Ridge	89.32	20	P	P	P	03 06 11.4 +0.6
C19K	Lookout Ridge	89.32	20	P	S	S	03 06 40.0 -1.1
H19K	Roundabout Mou	89.34	24	Iamb	Iamb	Iamb	03 06 18.1
H19K	Roundabout Mou	89.34	24	P	P	P	03 06 11.2 +0.3
H19K	Roundabout Mou	89.34	24	P	S	S	03 06 40.6 -0.7
Q20K	Shuyak Island	89.38	31	P	P	P	03 06 12.2 +1.0
Q20K	Shuyak Island	89.38	31	P	S	S	03 06 40.5 -1.4
L20K	Farewell, AK	89.60	27	P	P	P	03 06 12.8 +0.6
L20K	Farewell, AK	89.60	27	P	S	S	03 06 44.2 +0.3
O20K	Slope Mountain	89.61	29	P	P	P	03 06 12.5 +0.1
O20K	Slope Mountain	89.61	29	P	S	S	03 06 41.6 -2.6
E19K	Redstone River	89.62	22	Iamb	Iamb	Iamb	03 06 18.5
E19K	Redstone River	89.62	22	P	P	P	03 06 13.3 +1.1
E19K	Redstone River	89.62	22	P	S	S	03 06 42.6 -1.3
D19K	Kuna River	89.62	21	Iamb	Iamb	Iamb	03 06 19.0
D19K	Kuna River	89.62	21	P	P	P	03 06 12.3 0.0
D19K	Kuna River	89.62	21	P	S	S	03 06 42.1 -1.8
TAOE	Nuku Hiva Isla	89.62	99	I/P	P	P	03 06 18.3 +4.8
TAOE	Nuku Hiva Isla	89.62	99	eP	P	P	03 06 16.5 +3.0
TAOE	Nuku Hiva Isla	89.62	99	eS	S	S	03 06 37.7 -8.5
TAOE	Nuku Hiva Isla	89.62	99	eSS	SS	SS	03 22 36.1 -12
TAOE	Nuku Hiva Isla	89.62	99	eLQ	LQ	LQ	03 31 15.8
TAOE	Nuku Hiva Isla	89.62	99	eLR	LR	LR	03 35 00.5
TAOE	Nuku Hiva Isla	89.62	99	P	P	P	03 06 14.3 +0.8
K20K	Telida	89.74	26	P	P	P	03 06 13.5 +0.6
K20K	Telida	89.74	26	P	S	S	03 06 46.1 +0.9
M20K	Styx River	89.79	28	P	P	P	03 06 13.6 +0.3
M20K	Styx River	89.79	28	P	S	S	03 06 46.3 +0.5
GNI	Garni	89.89	310	P	P	P	03 06 15.3 +1.0
GNI	Garni	89.89	310	P	P	P	03 06 16.3 +2.0
GNI	Garni	89.89	310	P	P	P	03 06 15.3 +1.0
GNI	Garni	89.89	310	P	Pmax	Pmax	03 06 15.1 +0.8
GNI	Garni	89.89	310	P	P	P	03 06 15.5 +1.2
J20K	Nowinta River	89.92	25	P	P	P	03 06 14.3 +0.7
J20K	Nowinta River	89.92	25	P	S	S	03 06 46.4 -0.3
BELG	Belogomoye	89.92	323d	I/P	Pmax	Pmax	03 06 12.0 -1.9
I20K	Naaghedeneel	89.94	25	Iamb	Iamb	Iamb	03 06 23.2
I20K	Naaghedeneel	89.94	25	P	P	P	03 06 14.5 +0.8
I20K	Naaghedeneel	89.94	25	P	S	S	03 06 47.2 +0.4
H20K	Anotleneega Mo	89.96	24	P	P	P	03 06 13.7 -0.1
H20K	Anotleneega Mo	89.96	24	P	S	S	03 06 47.3 +0.3
HOM	Homer	90.00	30	P	P	P	03 06 14.0 -0.1
HOM	Homer	90.00	30	P	S	S	03 06 46.7 -0.8
F20K	Avaraart Lake	90.06	22	P	P	P	03 06 14.5 +0.3
F20K	Avaraart Lake	90.06	22	P	S	S	03 06 46.8 -1.0
N20K	Mount Spurr	90.06	28	P	P	P	03 06 13.8 -0.7
N20K	Mount Spurr	90.06	28	P	S	S	03 06 46.3 -2.0
SPCR	Spurr Chakacha	90.06	28	P	P	P	03 06 14.6 +0.1
SPCR	Spurr Chakacha	90.06	28	P	S	S	03 06 45.9 -2.5
KIRV	Kirov	90.13	329d	I/P	P	P	03 06 13.0 -1.7
CNPM	China Poot	90.17	30	Iamb	Iamb	Iamb	03 06 17.9
D20K	Etiulik River	90.21	21	Iamb	Iamb	Iamb	03 06 21.8
D20K	Etiulik River	90.21	21	P	P	P	03 06 15.0 +0.1
D20K	Etiulik River	90.21	21	P	S	S	03 06 47.3 -2.0
E20K	Nigu River	90.23	21	P	P	P	03 06 15.3 +0.2
E20K	Nigu River	90.23	21	P	S	S	03 06 47.1 -2.5
B20K	Meade River	90.42	19	Iamb	Iamb	Iamb	03 06 22.7
B20K	Meade River	90.42	19	P	P	P	03 06 16.1 +0.3
B20K	Meade River	90.42	19	P	S	S	03 06 48.9 -2.0
BRSE	Bradley Lake S	90.46	30	P	P	P	03 06 16.3 0.0
BRSE	Bradley Lake S	90.46	30	P	S	S	03 06 49.1 -2.7
PPLA	Purkypile	90.46	27	P	P	P	03 06 16.3 -0.1
PPLA	Purkypile	90.46	27	P	S	S	03 06 49.1 -2.9
CAPN	Captain Cook N	90.47	29	P	P	P	03 06 16.5 +0.3
CAPN	Captain Cook N	90.47	29	P	S	S	03 06 51.9 +0.1
IMAR	Indian Mountai	90.54	24	P	P	P	03 06 15.8 -0.7
SKT	Skwentna	90.55	28	P	P	P	03 06 15.5 -1.2
SKT	Skwentna	90.55	28	P	S	S	03 06 50.1 -2.6

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CAST	Castle Rocks	90.62	26	P	P	P	03 06 16.5 -0.5
CAST	Castle Rocks	90.62	26	P	S	S	03 06 51.8 -1.4
CHUM	Lake Minchumin	90.63	26	P	P	P	03 06 17.0 +0.1
CHUM	Lake Minchumin	90.63	26	P	S	S	03 06 52.1 -1.0
G21K	Allakaket	90.77	23	P	P	P	03 06 17.4 -0.1
G21K	Allakaket	90.77	23	P	S	S	03 06 52.3 -2.1
SUA	Susitna One	90.81	28	P	P	P	03 06 17.6 -0.4
SUA	Susitna One	90.81	28	P	S	S	03 06 52.0 -3.2
H21K	Melozitna Rive	90.84	24	P	P	P	03 06 18.0 +0.1
H21K	Melozitna Rive	90.84	24	P	S	S	03 06 53.8 -1.3
GEVA	Gevas	90.93	308	Iamb	Iamb	Iamb	03 06 25.9
KIBK	Kibwezi	90.94	268	P	P	P	03 06 20.9 +1.3
KIBK	Kibwezi	90.94	268	P	P	P	03 06 21.3 +1.7
F21K	Alatna River	90.95	22	P	P	P	03 06 18.8 +0.4
F21K	Alatna River	90.95	22	P	S	S	03 06 54.8 -1.2
C21K	Knifeblade Rid	90.97	20	P	P	P	03 06 19.1 +0.6
C21K	Knifeblade Rid	90.97	20	P	S	S	03 06 53.9 -2.2
A21K	Barrow	90.98	18	P	P	P	03 06 18.7 +0.3
A21K	Barrow	90.98	18	P	S	S	03 06 54.0 -2.1
E21K	Killik River	91.07	21	P	P	P	03 06 19.0 0.0
E21K	Killik River	91.07	21	P	S	S	03 06 54.4 -2.8
O22K	Cooper Landing	91.11	29	P	P	P	03 06 18.8 -0.4
O22K	Cooper Landing	91.11	29	P	S	S	03 06 54.5 -3.0
B21K	Ikpik River	91.15	20	Iamb	Iamb	Iamb	03 06 26.2
B21K	Ikpik River	91.15	20	P	P	P	03 06 19.6 +0.4
B21K	Ikpik River	91.15	20	P	S	S	03 06 55.2 -2.4
M22K	Willow	91.16	28	P	P	P	03 06 19.1 -0.3
M22K	Willow	91.16	28	P	S	S	03 06 54.3 -3.7
SEW	Seward	91.17	30	P	P	P	03 06 19.4 -0.1
SEW	Seward	91.17	30	P	S	S	03 06 54.1 -4.0
NCK	Nalchik	91.20	313d	I/P	Pmax	Pmax	03 06 20.1 0.0
RC01	Rabbit Creek A	91.22	29	P	P	P	03 06 19.5 -0.2
RC01	Rabbit Creek A	91.22	29	P	S	S	03 06 54.3 -4.3
CUT	Chukya	91.22	27	Iamb	Iamb	Iamb	03 06 25.5
CUT	Chukya	91.22	27	P	P	P	03 06 19.3 -0.4
CUT	Chukya	91.22	27	P	S	S	03 06 54.6 -4.0
BPaw	Bear Paw Mtn.	91.25	26	P	P	P	03 06 19.5 -0.3
BPaw	Bear Paw Mtn.	91.25	26	P	S	S	03 06 54.0 -4.9
A22K	Sinclair Lake	91.40	19	P	P	P	03 06 20.7 +0.3
A22K	Sinclair Lake	91.40	19	P	S	S	03 06 55.4 -4.4
TRF	Thorefare Moun	91.42	26	P	P	P	03 06 20.1 -0.8
TRF	Thorefare Moun	91.42	26	P	S	S	03 06 57.7 -3.0
H22K	Ishitina Cre	91.46	24	P	P	P	03 06 21.1 +0.3
H22K	Ishitina Cre	91.46	24	P	S	S	03 06 59.3 -1.4
F22K	John River	91.51	22	P	P	P	03 06 21.1 +0.2
F22K	John River	91.51	22	P	S	S	03 06 57.8 -3.2
MLY	Manley	91.54	25	Iamb	Iamb	Iamb	03 06 29.0
MLY	Manley	91.54	25	P	P	P	03 06 21.1 -0.1
MLY	Manley	91.54	25	P	S	S	03 06 58.0 -3.5
PMR	Palmer	91.59	28	P	P	P	03 06 21.1 -0.4
PMR	Palmer	91.59	28	P	P	P	03 06 21.0 -0.4
PMR	Palmer	91.59	28	P	S	S	03 06 59.0 -2.9
G22K	Bettles	91.63	23	P	P	P	03 06 21.4 -0.1
G22K	Bettles	91.63	23	P	S	S	03 06 58.2 -3.9
D22K	Ayikyak River	91.64	21	Iamb	Iamb	Iamb	03 06 22.0
D22K	Ayikyak River	91.64	21	P	P	P	03 06 22.0 +0.5
D22K	Ayikyak River	91.64	21	P	S	S	03 06 58.4 -3.7
B22K	Teshhepuk Lake	91.73	19	Iamb	Iamb	Iamb	03 06 28.6
B22K	Teshhepuk Lake	91.73	19	P	P	P	03 06 21.6 -0.3
B22K	Teshhepuk Lake	91.73	19	P	S	S	03 06 59.4 -3.5
KBZ	Khabaz	91.73	314	P	P	P	03 06 23.1 +0.6
KBZ	Khabaz	91.73	314	P	PP	PP	03 10 06.9 +2.4
KBZ	Khabaz	91.73	314	P	S	S	03 06 31.1 -2.9
KBZ	Khabaz	91.73	314	P	PKK	PKK	03 23 42.4 +0.4
KBZ	Khabaz	91.73	314	P	PKPP	PKPP	03 31 53.4 +2.2
GURO	Guroymak-BITLI	91.76	308	Iamb	Iamb	Iamb	03 06 30.4
E22K	Anaktuvuk Pass	91.78	22	Iamb	Iamb	Iamb	03 06 30.2
E22K	Anaktuvuk Pass	91.78	22	P	P	P	03 06 22.2 -0.1
E22K	Anaktuvuk Pass	91.78	22	P	S	S	03 06 59.6 -4.0
GOF	Golitskoye	91.80	315d	I/P	P	P	03 06 23.2 +0.4
GOF	Golitskoye	91.80	315d	eS	S	S	03 06 30.2 -4.2
PWL	Port Wells	91.85	29	P	P	P	03 06 22.4 -0.2
PWL	Port Wells	91.85	29	P	S	S	03 06 51.6 -2.7
KMBO	Kilima Mbogo	91.86	269	P	P	P	03 06 24.7 +0.6
KMBO	Kilima Mbogo	91.86	269	P	Iamb	Iamb	03 06 31.0
KMBO	Kilima Mbogo	91.86	269	P	P	P	03 06 26.0 +1.9
KMBO	Kilima Mbogo	91.86	269	P	Pmax	Pmax	03 06 24.7 +0.6
KMBO	Kilima Mbogo	91.86	269	I/P	P	P	03 06 24.6 +0.6
KNK	Knik Glacier	91.88	28	P	P	P	03 06 23.0 +0.1
KNK	Knik Glacier	91.88	28	P	S	S	03 06 52.2 -2.4
SHA1	Shalchamz	91.91	314d	I/P	P	P	03 06 23.8 +0.1
KIV	Kislovodsk	91.91	314	P	P	P	03 06 23.2 -0.2
KIV	Kislovodsk	91.91	314	P	P	P	03 06 25.1 +1.6
KIV	Kislovodsk	91.91	314	I/P	P	P	03 06 24.3 +0.8
KIV	Kislovodsk	91.91	314	eP	P	P	03 06 22.6 -0.9









Table with columns: Station, Frequency, Mode, and Signal. Includes stations like CHValec, HCy Herceg Novi, UPC Upice, etc.

Table with columns: Station, Frequency, Mode, and Signal. Includes stations like BRG baz=74,slow=7.1, BRG Berggiesshubel, etc.

Table with columns: Station, Frequency, Mode, and Signal. Includes stations like GERES comp=Z,106nm,0.6s, PKIKP, etc.

NEUB	baz=74,slow=7.1	eX	03 19 12.0
NEUB	baz=74,slow=7.1	eSdiff	Sdif 03 19 53.7 -1.0
NEUB	baz=70,slow=8.2	eSP	SP 03 21 43.1 -2.3
MYKA	baz=66,slow=9.6	ePKIKP	PKIKP 03 11 50.4 +1.2
MYKA	comp=Z,40nm,0.6s	ePKKP	PKKPbc 03 22 44.0 +1.0
MYKA	comp=Z,23nm,0.5s,SNR=7.3	eP	PKKPbc 03 22 44.0 +1.0
MYKA	Terra Mystica 112.09 318	eP	
SKDS	Skadanscina 112.11 317	iP	PKIKP 03 11 50.3 +1.1
MANZ	Manzenberg 112.15 322	ePdiff	Pdif 03 07 54.3 +0.4
MANZ	baz=74,slow=1.9	ePKIKP	PKIKP 03 11 50.6 +1.4
MANZ	baz=74,slow=4.0	eSKS	SKSac 03 18 11.5 +0.5
MANZ	baz=74,slow=7.1	eX	03 19 14.3
MANZ	baz=70,slow=8.2	eSdiff	Sdif 03 19 56.5 +0.2
MANZ	baz=70,slow=8.2	eSP	SP 03 21 48.0 +0.9
ROTZ	Rotzenmühle 112.16 321	ePdiff	Pdif 03 07 54.3 +0.4
ROTZ	baz=74,slow=4.0	eSKS	SKSac 03 18 12.0 +1.1
ROTZ	baz=74,slow=7.1	eX	03 19 13.6
ROTZ	baz=70,slow=8.2	eSdiff	Sdif 03 19 56.6 +0.3
MOX	Moxa 112.25 322	ePdiff	Pdif 03 07 54.9 +0.6
MOX	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 50.0 +0.6
MOX	baz=74,slow=4.0	eSKS	SKSac 03 18 10.6 -0.7
MOX	baz=74,slow=7.1	eX	03 19 13.6
MOX	baz=70,slow=8.2	eSdiff	Sdif 03 19 57.3 +0.2
ASSE	Asse, Remlinge 112.34 324	ePdiff	Pdif 03 07 55.3 +0.7
ASSE	baz=74,slow=1.9	ePKIKP	PKIKP 03 11 50.1 +0.8
ASSE	baz=74,slow=4.0	eSKS	SKSac 03 18 11.9 +0.5
ASSE	baz=74,slow=7.1	eX	03 19 14.8
ASSE	baz=70,slow=8.2	eSdiff	Sdif 03 19 55.2 -2.3
ASSE	baz=70,slow=8.2	eSP	SP 03 21 45.7 -2.8
RJOB	Jochberg 112.36 319	ePdiff	Pdif 03 07 54.9 0.0
RJOB	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 50.2 +0.5
RJOB	baz=74,slow=1.9	eSKS	SKSac 03 18 09.3 -2.7
RJOB	baz=74,slow=4.0	eX	03 19 12.1
RJOB	baz=74,slow=7.1	eSdiff	Sdif 03 19 56.9 -1.3
RJOB	baz=70,slow=8.2	eSP	SP 03 21 51.0 +1.9
KMY	Karmoy 112.38 333	ePdif	Pdif 03 07 54.8 +0.1
KMY	baz=66,slow=9.6	ePP	PP 03 12 41.1 +3.0
KMY	baz=66,slow=9.6	eSKS	SKSac 03 18 13.1 +1.7
KMY	baz=66,slow=9.6	eSP	SP 03 21 48.0 +0.4
KMY	baz=66,slow=9.6	eS	03 23 42.2
KMY	baz=66,slow=9.6	eSS	03 23 33.1
KMY	baz=66,slow=9.6	eSS	03 28 02.2 +2.6
KMY	baz=66,slow=9.6	eIVMs_BB	IVMs_BB 04 02 10.2
LESA	Schwarzleotol 112.52 319	iPdiff	Pdif 03 07 57.1 +1.4
LESA	comp=Z,12nm,1.3s	iPKIKP	PKIKP 03 11 51.2 +1.2
LESA	comp=Z,63nm,0.6s,SNR=7.2	ePKKP	PKKPbc 03 22 41.6 0.0
NRDL	Niedersach Rie 112.54 325	ePdiff	Pdif 03 07 56.7 +1.2
NRDL	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 51.7 +2.0
NRDL	baz=74,slow=1.9	eSKS	SKSac 03 18 13.0 +0.8
NRDL	baz=74,slow=4.0	eX	03 19 17.1
NRDL	baz=74,slow=7.1	eSdiff	Sdif 03 19 59.7 +0.5
NRDL	baz=70,slow=8.2	eSP	SP 03 21 48.2 -2.1
CLZ	Clausthal 112.61 324	ePdiff	Pdif 03 07 56.6 +0.7
CLZ	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 51.9 +1.9
CLZ	baz=74,slow=1.9	eSKS	SKSac 03 18 12.7 -0.1
CLZ	baz=74,slow=4.0	eX	03 19 16.8
CLZ	baz=74,slow=7.1	eSdiff	Sdif 03 19 59.4 -0.7
CLZ	baz=70,slow=8.2	eSP	SP 03 21 48.6 -2.6
GRF	Grafenberg Arr 112.79 322	ePdiff	Pdif 03 07 57.7 +0.9
GRF	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 53.5 +3.1
GRF	baz=74,slow=1.9	ePP	PP 03 12 46.5 +5.0
GRF	baz=63,slow=6.5	eSKPdf	SKPpdf 03 15 04.4 -0.4
GRF	baz=63,slow=6.5	eSKSac	SKSac 03 18 13.3 -0.2
GRF	baz=74,slow=4.0	eX	03 19 18.7
GRF	baz=74,slow=7.1	eSP	SP 03 21 53.2 +0.2
GRF	baz=66,slow=9.6	ePKKP	PKKPbc 03 22 50.9 +3.3
ABTA	Abfalterbach 112.81 318	iPdiff	Pdif 03 07 57.7 +0.7
ABTA	comp=Z,8.9nm,1.7s	iPKIKP	PKIKP 03 11 51.8 +1.1
ABTA	comp=Z,183nm,0.8s,SNR=14	ePKKP	PKKPbc 03 22 40.9 +0.3
RETH	Rethem/Aller 112.89 325	ePdiff	Pdif 03 07 58.1 +1.1
RETH	baz=72,slow=4.4	eSP	SP 03 21 49.8 -3.7
RETH	baz=66,slow=9.6	eSdiff	Sdif 03 07 58.1 +0.7
GTTG	Gottingen 112.95 324	ePdiff	Pdif 03 11 52.6 +2.0
GTTG	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 52.6 +2.0
GTTG	baz=74,slow=1.9	eSKS	SKSac 03 18 13.7 -0.3
GTTG	baz=74,slow=4.0	eX	03 19 19.1
GTTG	baz=74,slow=7.1	eSdiff	Sdif 03 20 01.6 -1.2
GTTG	baz=70,slow=8.2	eSP	SP 03 21 49.9 -4.3
HLG	Helgoland 113.17 327	eSKS	SKSac 03 18 15.1 +0.4
HLG	baz=74,slow=4.0	eX	03 19 21.3
HLG	baz=74,slow=7.1	eSP	SP 03 21 53.5 -2.5
UBBA	Unterbreizbach 113.17 323	ePdiff	Pdif 03 07 58.5 +0.2
UBBA	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 52.7 +1.8
UBBA	baz=74,slow=1.9	eSKS	SKSac 03 18 14.6 -0.1
UBBA	baz=74,slow=4.0	eX	03 19 20.0
UBBA	baz=74,slow=7.1	eSdiff	Sdif 03 20 02.1 -2.4
UBBA	baz=70,slow=8.2	eSP	SP 03 21 53.3 -2.9
FUR	Furstenfeld 113.22 320	ePKIKP	PKIKP 03 11 52.6 +1.3
FUR	baz=66,slow=9.6	eSKS	SKSac 03 18 14.7 -0.6
FUR	baz=74,slow=1.9	eSdiff	Sdif 03 20 05.3 +0.1

FUR	baz=70,slow=8.2	eSP	SP 03 21 58.3 +1.3
WTTA	Wattenberg 113.25 319	iPdiff	Pdif 03 07 59.8 +0.7
WTTA	comp=Z,13nm,1.0s,SNR=11	iPKIKP	PKIKP 03 11 52.6 +1.0
WTTA	comp=Z,453nm,0.6s,SNR=32	iPKKP	PKKPbc 03 22 41.4 +2.1
WTTA	comp=Z,75nm,0.9s,SNR=5.2	iPKKP	PKKPbc 03 22 41.4 +2.1
WATA	Walderalm 113.26 319	ePdiff	Pdif 03 07 59.8 +0.7
WATA	comp=Z,135nm,0.5s,SNR=7.4	iPKIKP	PKIKP 03 11 52.6 +1.1
WATA	comp=Z,64nm,1.2s,SNR=6.6	iPKKP	PKKPbc 03 22 40.4 +1.3
AQU	L'Aquila 113.29 313	P	Pdif 03 08 00.1 +0.9
SCO	Scoresbysund 113.38 350	P	Pdif 03 07 59.2 +0.3
SUMG	Summit 113.45 356	P	Pdif 03 08 01.2 +1.4
SUMG	Summit 113.45 356	P	Pdif 03 08 00.3 +0.6
SUMG	Summit 113.45 356	P	Pdif 03 08 00.3 +0.6
SUMG	Summit 113.45 356	P	Pdif 03 08 01.1 +1.4
SQTA	Sankt Quirin 113.54 319	iPdiff	Pdif 03 08 01.7 +1.3
SQTA	comp=Z,14nm,1.2s,SNR=8.6	iPKIKP	PKIKP 03 11 53.1 +1.1
SQTA	comp=Z,85nm,0.6s,SNR=6.7	ePKKP	PKKPbc 03 22 39.0 +0.8
MOTA	Moosalm 113.57 319	iPdiff	Pdif 03 08 01.7 +1.2
MOTA	comp=Z,12nm,1.2s,SNR=9.1	iPKP	PKIKP 03 11 53.2 +1.1
MOTA	comp=Z,132nm,0.6s,SNR=13	iPKKP	PKKPbc 03 22 39.1 +0.9
MOTV	Motz 113.59 2	iP	Pdif 03 08 00.5 +0.7
UPERN	Upenovik 113.75 319	iPdiff	Pdif 03 08 00.6 -0.6
RETA	Reutte 113.75 319	iPdiff	Pdif 03 08 00.6 -0.6
RETA	comp=Z,76nm,0.7s,SNR=6.6	ePKP	PKIKP 03 11 53.5 +1.2
RETA	comp=Z,34nm,1.2s	iPKKP	PKKPbc 03 22 38.5 +1.0
ILON	Igloolik, Nuna 113.89 12	Pdif	Pdif 03 08 01.7 +0.5
FETA	Feichten 113.91 319	iPdiff	Pdif 03 08 02.7 +0.7
FETA	comp=Z,14nm,2.1s,SNR=10	iPKP	PKIKP 03 11 53.8 +1.0
FETA	comp=Z,83nm,0.6s,SNR=10.0	iPKKP	PKKPbc 03 22 38.8 +1.8
IBBN	Ibbuburen 113.95 325	ePdiff	Pdif 03 08 02.6 +0.7
IBBN	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 54.0 +1.6
IBBN	baz=74,slow=1.9	eSKS	SKSac 03 18 17.5 -0.4
IBBN	baz=74,slow=4.0	eX	03 19 27.3
IBBN	baz=74,slow=7.1	eSdiff	Sdif 03 20 09.2 -1.9
IBBN	baz=70,slow=8.2	eSP	SP 03 22 01.1 -2.2
IBBN	baz=66,slow=9.6	ePdiff	Pdif 03 08 02.6 +0.5
KASTN	Kahler Asten 113.98 324	ePKIKP	PKIKP 03 11 54.1 +1.5
KASTN	baz=72,slow=4.4	eSKS	SKSac 03 18 18.2 +0.1
KASTN	baz=74,slow=1.9	eX	03 19 27.9
KASTN	baz=74,slow=4.0	eSdiff	Sdif 03 20 09.9 -1.6
KASTN	baz=70,slow=8.2	eSP	SP 03 22 02.2 -1.5
UBR	Ueberruh 114.11 320	ePdiff	Pdif 03 08 03.0 +0.2
UBR	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 53.8 +0.8
UBR	baz=74,slow=1.9	ePP	PP 03 12 51.7 +0.7
UBR	baz=63,slow=6.5	eSKS	SKSac 03 18 17.3 -1.6
UBR	baz=74,slow=4.0	eX	03 19 27.6
UBR	baz=74,slow=7.1	eSdiff	Sdif 03 20 10.1 -2.7
UBR	baz=70,slow=8.2	eSP	SP 03 22 06.7 +1.5
TNS	Tanus Mts 114.31 323	ePdiff	Pdif 03 08 03.8 +0.2
TNS	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 54.8 +1.5
TNS	baz=74,slow=1.9	eSKS	SKSac 03 18 20.0 +0.5
TNS	baz=74,slow=4.0	eX	03 19 30.2
TNS	baz=74,slow=7.1	eSdiff	Sdif 03 20 12.8 -1.6
TNS	baz=70,slow=8.2	eSP	SP 03 22 05.2 -1.6
STU	Stuttgart 114.34 321	ePdiff	Pdif 03 08 04.2 +0.6
STU	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 55.2 +1.8
STU	baz=74,slow=1.9	ePP	PP 03 12 53.8 +1.3
STU	baz=63,slow=6.5	eSKS	SKSac 03 18 17.7 -1.9
STU	baz=74,slow=4.0	eX	03 19 27.5
STU	baz=74,slow=7.1	eSdiff	Sdif 03 20 12.7 -1.9
STU	baz=70,slow=8.2	eSP	SP 03 22 07.6 +0.4
DAVA	Damuels 114.38 319	iPdiff	Pdif 03 08 03.0 -1.1
DAVA	comp=Z,13nm,1.9s	iPKP	PKIKP 03 11 54.7 +1.0
DAVA	comp=Z,333nm,0.8s,SNR=24	iPKKP	PKKPbc 03 22 37.1 +1.7
DAVA	comp=Z,56nm,1.1s	iPKKP	PKKPbc 03 22 34.1 -0.8
DAVOS	Davos/Dischmat 114.54 319	iPKKPbc	PKKPbc 03 22 34.1 -0.8
BUG	Bochum-Univer 114.56 324	ePdiff	Pdif 03 08 04.4 -0.1
BUG	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 56.8 +3.1
BUG	baz=74,slow=1.9	eSKS	SKSac 03 18 20.0 -0.2
BUG	baz=74,slow=4.0	eX	03 19 29.0
BUG	baz=74,slow=7.1	eSdiff	Sdif 03 20 15.7 -0.5
BUG	baz=70,slow=8.2	eSP	SP 03 22 07.7 -1.2
BUG	baz=66,slow=9.6	ePKKP	PKKPbc 03 11 54.8 +1.0
LRW	Lerwick 114.72 335	ePdiff	Pdif 03 11 54.8 +1.0
LRW	comp=Z,46nm,20.6s	iAMS_20	IAMS_20 04 03 53.2
NUUG	Nuugaatsiaq 114.91 1	iP	Pdif 03 08 06.4 +0.8
BFO	Naug Forest 115.03 321	ePdiff	Pdif 03 08 06.6 -0.3
BFO	baz=72,slow=4.4	ePKIKP	PKIKP 03 11 57.4 +2.6
BFO	baz=74,slow=1.9	eSKS	SKSac 03 18 21.1 -1.2
BFO	baz=74,slow=4.0	eX	03 19 27.5
BFO	baz=66,slow=9.6	eSdiff	Sdif 03 22 13.7 +0.2
BTNL	Ternell 115.55 324	ePdiff	Pdif 03 08 10.2 +1.2
BTNL	comp=Z,63nm,0.7s,SNR=278	ePKP	PKIKP 03 11 57.0 +1.3
MEM	Membach 115.61 324	ePdiff	Pdif 03 08 10.2 +0.9
MEM	comp=Z,56nm,1.1s	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03 08 10.7 +0.9
MEM	MEM	ePKP	PKIKP 03 08 58.0
MEM	MEM	ePKP	PKIKP 03 11 57.0 +1.3
MEM	MEM	ePKP	PKIKP 03 08 10.2 +1.2
MEM	MEM	ePKP	PKIKP 03



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like BSCB Bom Sucesso, PCMB Pacaembu, RCC Rio Carpintero, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like TMAB Tom-Au, PA, Br, MALB Monte Alegre, MDP Montagnes des, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ISC 24 03:21:10.6, 2.4, 36.0N, 02.69, 8E, 0.2, h35km, n8, etc.





SOME 24 03:41:37.9, 42°53'N, 68°47'E
NCC 24 03:41:40.2, 4.8, 42°48'N-68°57'E, h2km, 20km, mb4.0,
mpv3.6, 1C-1D, Error ellipse: s-maj=30.8km
s-min=22.2km az=74.0, Suspected Mining explosion.,
Central Kazakhstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include BRLS Borolday, IUG luzhnyay, IUG Karatay Array, etc.

IDC 24 03:42:27.1, 2.0, 2°67'S, 138°52'E, h0km, mb3.9/2,
s-min=18.8km az=158.0,
DJA 24 03:42:31.4, 0.8, 3°S, 6°13'9E, h13km, 8km, M4, 0/6,
MLv4, 0/6

ISC 24 03:42:31.6, 1.0, 2°64'S, 0°10', 138°63'E, 0.06, h32km, n10,
c#170/10, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include SMPI Sarmi, GENI Ganyem, JAY Jayapura, etc.

SOME 24 03:45:05.9, 42°48'N, 68°32'E
NCC 24 03:45:06.5, 3.5, 42°48'N-68°36'E, h0km, mb4.2, mpv4.2,
Error ellipse: s-maj=23.0km s-min=20.8km az=120.0,
Suspected Mining explosion.

IDC 24 03:45:12.0, 1.5, 42°56'N-68°83'E, h0km, mb3.7/3,
mbmp3.4/6, ML2, 8/3, Error ellipse: s-maj=32.6km
s-min=11.4km az=7.0

ISC 24 03:45:12.2, 1.0, 42°69'N, 0°08', 68°89'E, 0.07, h0km, n10,
c#91/13, mb3.7/4, Central Kazakhstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include BRLS Borolday, IUG luzhnyay, MRKS Merke, etc.

IDC 24 03:45:47.6, 9.99, 0, 45°10'N-64°32'E, h0km, Error ellipse:
s-maj=1147.0km s-min=138.4km az=141.0, Western
Kazakhstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include I31KZ AKTYUBINSK INF, I43RU DUBNA INFRA30.0, etc.

IDC 24 03:45:54.9, 1.1, 2°59'S, 138°55'E, h0km, mb3.8/5,
mbmp3.8/7, ML3.9/2, Error ellipse: s-maj=25.2km
s-min=16.7km az=1.0

NEIC 24 03:45:56.8, 1.3, 2°66'S, 0°09', 138°60'E, 0.07, h10km, 1km,
mb4, 1/7, Error ellipse: s-maj=15.3km s-min=11.3km
az=329.0

DJA 24 03:45:58.0, 4.0, 3°S, 5°13'9E, h10km, M4, 0/7, MLv4, 0/7
ISC 24 03:45:59.4, 0.8, 2°63'S, 0°08', 138°60'E, 0.07, h32km, n25,
c#181/25, mb3.8/7, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include SMPI Sarmi, GENI Ganyem, JAY Jayapura, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include KURBB Kurchatov Arr, BVAR Borovoye Array, E19K Redstone River, etc.

SOME 24 03:56:26.3, 42°52'N, 68°62'E
NCC 24 03:56:26.8, 0.8, 42°40'N-68°60'E, h5km, 3km, mb4.0,
mpv3.8, 4C, Error ellipse: s-maj=5.1km s-min=3.6km
az=77.0, Suspected Mining explosion., Central
Kazakhstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include IUG luzhnyay, IUG 82nm, 0.4s, BRLS Borolday, etc.

GCG 24 04:09:41.5, 0.6, 14°38'N, 92°93'W, h32km, 25km, MD4.3,
ML2.7, MWV3.4

MEX 24 04:09:41.4, 0.8, 14°37'N, 93°00'W, h9km, 20km, MD4.0,
ISC 24 04:09:37.1, 2.0, 14°31'N, 0°09', 93°04'W, 0.05, h8km, n12km,
n17, c#210/25, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include SMCA Catarina, PATR EI Naranjo, PATR PAVE, etc.

GCG 24 04:15:38.6, 0.3, 15°46'N, 92°15'W, h134km, 5km, MD3.6,
ML2.4, Mexico-Guatemala border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include SMCA Catarina, HUEH Huehuetenango, CGIC Comitán, etc.

NEIC 24 04:26:59.2, 2.5, 6°50'S, 0°09', 129°3E, 0.1, h239km, 10km,
mb4, 1/5, Error ellipse: s-maj=17.1km s-min=8.3km
az=127.0

DJA 24 04:26:59.0, 0.5, 7°S, 4°12'9E, h25km, 11km, M4, 7/13,
MLv3, 6/2, mb4, 4/7, MLv4, 7/13, MWv1, mb5, 1/2

IDC 24 04:27:00.2, 4.7, 6°66'S, 128°93'E, h224km, 44km, mb3.3/3,
mbmp4.4/6, Error ellipse: s-maj=62.7km s-min=17.0km
az=69.0

ISC 24 04:27:00.1, 0.6, 6°61'S, 0°06', 129°15'E, 0.07, h250km, n36,
c#197/39, mb3.6/4, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include BNDI Bandanaira, SAUI Saumlaki, MSAI Masohi, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include WR8 Warramunga Arr, COEN Coen, MBWA Marble Bar, etc.

7.9nm, 0.8s, baz=334, slow=21, SNR=12

comp=Z, 2.0nm, 0.9s, baz=101, slow=4.8, SNR=2.7

comp=Z, 1.2nm, 1.1s

comp=Z, 5.4nm, 0.9s

comp=Z, 2.9nm, 0.7s, baz=346, slow=20, SNR=8.4

comp=Z, 0.9nm, 0.6s, baz=132, slow=5.1, SNR=7.3

comp=Z, 0.5nm, 0.4s, baz=164, slow=5.3, SNR=2.5

comp=Z, 0.4nm, 0.4s

comp=Z, 0.4nm, 0.3s, baz=124, slow=7.7, SNR=7.6

comp=Z, 0.9nm, 0.6s

comp=Z, 2.6nm, 1.1s

IDC 24 04:35:17.9, 1.0, 2°79'S, 138°61'E, h0km, mb3.8/5,
mbmp3.9/7, ML3.7/2, Error ellipse: s-maj=25.5km
s-min=16.9km az=167.0

DJA 24 04:35:20.4, 0.4, 3°S, 5°13'9E, h10km, M3.7/6, MLv3, 7/6
ISC 24 04:35:22.6, 0.9, 2°61'S, 0°10', 138°60'E, 0.06, h35km, n12,
c#177/12, mb3.9/5, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include SMPI Sarmi, GENI Ganyem, JAY Jayapura, etc.

IDC 24 04:37:03.1, 9.99, 0, 43°62'N-66°27'E, h0km, Error ellipse:
s-maj=325.8km s-min=168.2km az=144.0, Central
Kazakhstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include I31KZ AKTYUBINSK INF, I43RU DUBNA INFRA30.0, etc.

JMA 24 04:41:02.0, 0.2, 35°8'N, 0°5'140'1E, 0.07, h63km, 1km,
MW3, 2/37, NORTHERN CHIBA PREF

JMA Feil J1 at NORTHERN CHIBA PREF

IDC 24 04:41:03.5, 3.2, 35°65'N, 140°02'E, h85km, 24km, mb3.3/8,
mbmp3.7/8, Error ellipse: s-maj=36.3km s-min=23.4km
az=73.0

ISC 24 04:41:02.1, 0.8, 35°75'N, 0°04'140'1E, 0.04, h68km, 6km,
n3, c#99/37, mb3.8/8, Near east coast of eastern
Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Rows include TOK Tokyo, TOK Sammumatsuo, JSMT JSMT, etc.





Table with columns for station call letters, frequency, and other identifiers. Includes stations like MRZ, TMZ, GWZ, KHZ, PLWZ, etc.

Table with columns for station call letters, frequency, and other identifiers. Includes stations like MKAR, MAKZ, SHLS, SHLS, etc.

Table with columns for station call letters, frequency, and other identifiers. Includes stations like CHM, CNBA, CHNA, BRLS, etc.



Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like F28M Old Crow, L29M L29M, HYT Haines Junctio, etc.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like OBN Obninsk, YKA Yellowknife Ar, TROLL Troll, etc.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like USIN University of, WWT Waverly, WWT Waverly, etc.

IDC 24 04:54:21.1,0.9,2.67S; 138.61E, h0km, mb4, 1/6, mbmp4, 2/8, ML3, 8/2, Error ellipse: s-maj=30.3km s-min=23.9km az=82.0

NEIC 24 04:54:23.4,1.2,2.75S;0.2,138.60E,0.03,h0km,1km, mb4, 7/13, Error ellipse: s-maj=31.1km s-min=4.9km

ISC 24 04:54:26.1,0.7,2.75S;0.1,138.62E,0.08,h32km,n27, az=71.0

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Mode, and other parameters. Includes stations like JAY Jayapura, FAKI Fak Fak, WRA Warramunga Arr, etc.

IDC 24 04:56:59.3,0.7,2.64S; 138.62E, h0km, mb4, 0/8, mbmp4, 2/11, ML4, 7/7, Error ellipse: s-maj=19.5km s-min=15.7km az=179.0

DJA 24 04:57:00.9,1.1,3.5S;7.7,131.9E, h21km,12km, M4,3/6, ML4,3/6

NEIC 24 04:57:01.2,2.2,2.64S;0.06,138.73E,0.07,h10km,1km, mb4,6/8, Error ellipse: s-maj=13.6km s-min=7.8km az=46.0

ISC 24 04:57:03.6,0.6,2.61S;0.07,138.66E,0.06,h32km,n35, az=143/33,mb4,1/9,Irian Jaya



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 05:03.4:1.1, 2.70S, 138.55E, h0km, mb3.8/5, mbmp3.9/7, ML3.0/2, Error ellipse: s-maj=25.0km s-min=17.6km az=173.0

DJA 24 04:59:07.4:0.9, 3.5S, 139.9E, h11km, mb3.8/5, MLV3.8/5

ISC 24 04:59:07.8:0.8, 2.63S, 138.61E, 0:07, h32km, n11, a=154/11, mb3.8/3, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 05:00:24.9:2.2, 2.44S, 138.22E, h0km, mb3.5/2, mbtmp3.6/4, ML3.4/2, Error ellipse: s-maj=53.8km s-min=31.3km az=121.0, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

IDC 24 05:12:11.4:1.6, 2.62S, 138.59E, h0km, mb3.9/3, mbtmp3.9/5, ML3.6/2, Error ellipse: s-maj=34.2km s-min=18.0km az=158.0

DJA 24 05:12:15.3:0.4, 3.5S, 139.9E, h10km, M4.0/6, MLV4.0/6

ISC 24 05:12:16.0:0.9, 2.61S, 138.68E, 0:10, h32km, n11, a=145/11, mb3.8/3, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 05:15:46.1:0.4, 2.71S, 138.54E, h0km, mb4.9/17, mbtmp4.9/23, ML4.6/3, MS4.7/3, Error ellipse: s-maj=12.9km s-min=11.1km az=67.0

MOS 24 05:15:46.3:0.8, 2.69S, 138.48E, h11km, mb5.3/45, Error ellipse: s-maj=8.5km s-min=5.1km az=113.2

BUI 24 05:15:47.0:2.7, 2.70S, 138.50E, h10km, mb5.6/5, mb4.9/75, MS5.4/12, MS7.5/3/12

NEIC 24 05:15:48.7:1.2, 2.65S, 138.52E, 0:06, h10km, 1km, mb5.3/259, Error ellipse: s-maj=12.1km s-min=9.6km az=180.0

DJA 24 05:15:49.1:0.6, 3.5S, 139.9E, h16km, M4.0/6, MLV4.0/6

ISC 24 05:15:51.4:0.2, 2.75S, 138.55E, 0:04, h32km, n862, a=1320/851, mb5.2/206, MS5.2/9, 13C-7D, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 05:15:49.1:0.6, 3.5S, 139.9E, h16km, M4.0/6, MLV4.0/6

ISC 24 05:15:51.4:0.2, 2.75S, 138.55E, 0:04, h32km, n862, a=1320/851, mb5.2/206, MS5.2/9, 13C-7D, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

IDC 24 05:15:49.1:0.6, 3.5S, 139.9E, h16km, M4.0/6, MLV4.0/6

ISC 24 05:15:51.4:0.2, 2.75S, 138.55E, 0:04, h32km, n862, a=1320/851, mb5.2/206, MS5.2/9, 13C-7D, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FITZ Fitzroy Cross, WBSI Wakabak, AS01 Alice Springs, etc.

24d 5h

Table with columns for station code, name, frequency, and signal strength. Includes stations like MSVF Nonsavu, SLVN Son La, DGTI Dogoluki, DL2 Dalian, etc.

2019 JUN

Table with columns for station code, name, frequency, and signal strength. Includes stations like LSA Lhasa, GOMU GeErMu, ZEA Zeya, ULN Ulanbatar, etc.

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Table with columns for station code, name, frequency, and signal strength. Includes stations like NIL Nilore, TDK Taldygorghan, MDOK Medeo, BOOM Boomsokoye usch, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like G15K Niukluk, BRVK Borovoye, M16K Timber Creek, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like HOM Homer, M20K Styx River, H19K Roundabout Mou, etc.

Table with columns: ID, Name, Date, Time, Location, Status, etc. Includes entries like GLI Glacier Island, SCM Sheep Creek Mo, WAT6 Susitna Watana, etc.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Power, Mode, and other parameters. Includes stations like MCARA, MENT, SCRK, FYU, F25K, etc.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Power, Mode, and other parameters. Includes stations like N31M, J30M, SKAG, EPYK, I30M, etc.

Table with columns: Call Sign, Name, Azimuth, Elevation, Frequency, Power, Mode, and other parameters. Includes stations like TXAR, TXAR, BRDY, U38A, etc.

IDC 24 05:22:38.9, 0.2, 56'S; 138°53'E, h0km, mb3.9/7, mbmp4.0/9, ML3.9/2, Error ellipse: s-maj=21.9km s-min=16.1km az=10.0

DJA 24 05:22:42.2, 0.3, 2°S; 139°19'E, h10km, M4.3/7, mb4.5/1, v14.2/7

ISC 24 05:22:43.4, 0.7, 2.52S; 0°13'N; 138°62'E; 0.05, h32km, n17, c1514/17, mb4.0/7, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Power, Mode, and other parameters. Includes stations like SMPI, GENI, JAY, etc.

ATH 24 05:31:56.5, 4.0, 48°2N; 20°86'E, h6km, ML2.7/8, Manual Solution by K.Orfanogiannaki First location: 2019/06/24

SKO 24 05:31:58.2, 4.0, 64°N; 20°88'E, h38km, ML2.6, THE 24 05:29:5.0, 4.0, N3°-2°1'E, h6km, 2km, M2.5/10, ML2.5/10

ISC 24 05:51:30.3, 0.9, 40°53'N; 0°02'20"E; 0.02, h8km, 6km, n40, c126/64, Greece-Albania border region

Table with columns: Code, Station Name, Azimuth, Elevation, Frequency, Power, Mode, and other parameters. Includes stations like KBN, KBN, NEST, etc.



24d 6h

Table with columns: FITZ, ASAR, ASAR, SONM, KURBB, Vnda, BVAR, ILAR, QSPA, CPUP, LPaz. Includes station names, coordinates, and various parameters.

ISK 24 05:56:52.9, 37.64N, 27.04E, h3km, ML2.9/32
THE 24 05:56:53.9, 38.1N, 1.27E, h3km, 1km, M2.9/14, MLh2.9/14

AFAD 24 05:56:53.5, 37.62N, 27.04E, h7km, 2km, ML2.8
ATH 24 05:56:53.4, 37.64N, 27.08E, h7km, 1km, ML3.0/6, Manual
Solution by K.Orfanogianni First location: 2019/06/24
05:58:10, This location: 2020/10/04 19:11:11 ML

Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 1 km

ISC 24 05:56:53.9, 0.8, 37.63N, 0.01, 27.04E, 0.02, h11km, 6km, n75, c058/108, Turkey

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists numerous stations and their associated data.

2019 JUN

Table with columns: SIGR, SIGRI, THR6, THR9, FETY, FETH, CAME, KARP, KARF, KARX, KARV, KARU, KARZ, LIA. Lists stations and their coordinates.

ASRS 24 05:59:49.0, 0.8, 53.95N, 86.60E, h0km, M2.4, The
earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p +
CD-ROM, 2021.
IDC 24 05:59:35.0, 3.0, 54.21N, 86.36E, h0km, mbmp2.8/2,
ML2.3/2, Error ellipse: s-maj=22.8km s-min=13.7km
az=57.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like I46RU, ZALV, ZALV, KURBB, MKAR.

IDC 24 06:05:29.7, 0.7, 2.64S, 138.52E, h0km, mb4.0/10,
mbmp4.0/13, ML4.0/3, Error ellipse: s-maj=17.1km
s-min=15.1km az=19.0,
NEIC 24 06:05:30.7, 1.9, 2.65S, 0.1, 138.36E, 0.04, h10km, 1km,
az=173.0, Error ellipse: s-maj=17.6km s-min=7.3km

DJA 24 06:05:34.0, 4.2, 3.3, 13.9E, h10km, M4.2/7, MLv4.2/7
ISC 24 06:05:33.4, 0.5, 2.66S, 0.05, 138.44E, 0.06, h32km, n41,
c174/44, mb4.1/16, Irian Jaya

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists numerous stations and their associated data.

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Main table with columns: SMPI, GENI, JAY, JAY, BAKI, RKPI, FAKI, SOEI, KNRA, WB0, WR0, WRAB, TOLJ, FITZ, AS31, ASAR, ASAR, EIDS, EIDS, JNU, NJ2, NJ2, KRSR, HNS, XAN, XAN, XAN, BNX, BNX, HHC, HHC, LZH, LZH, LZH, KLR, GTA, GTA, GTA, SONM, PEAOB, PEAOB, PETK, PETK, MKAR, MKAR, MKAR, NIKH, ZAAO, ZAAO, ZALV, ZALV, UNV, KURBB, TXI, TXI, S12K, Vnda, Vnda, SIMJ, KIRAT, GAMB, SDPT, SDPT, K13K, K13K, K13K, N14K, L14K, L14K, M14K, M14K, J14K, M15K, N15K, N15K, ANM, L15K, K15K, K15K, BVAO, BVAO, BVAO, BRVK, O16K, G15K, N16K, F15K. Lists numerous stations and their associated data.



M16K	comp-Z,3.3nm,1.3s	79.53	26	I	Amb	P	06 39 16.8	-0.8
M16K	comp-Z,10nm,1.1s						06 39 19.5	
M16K	comp-Z,3.3nm,1.3s	79.53	26	P		P	06 39 19.5	+1.9
L16K	comp-Z,3.3nm,1.3s	79.61	25	P		P	06 39 18.6	+0.6
Q16K	comp-Z,3.3nm,1.3s	79.63	29	P		P	06 39 19.5	+1.4
Q17K	comp-Z,3.3nm,1.3s	79.64	29	P		P	06 39 19.5	+0.1
O17K	comp-Z,3.3nm,1.3s	79.86	28	P		P	06 39 20.6	+1.4
J16K	comp-Z,3.3nm,1.3s	79.86	24	P		P	06 39 20.6	+1.4
H16K	comp-Z,3.3nm,1.3s	79.86	22	P		P	06 39 21.0	+1.8
SII	comp-Z,3.3nm,1.3s	80.07	31	P		P	06 39 21.9	+1.3
ACHA	comp-Z,3.3nm,1.3s	80.09	29	P		P	06 39 20.3	-0.4
N17K	comp-Z,3.3nm,1.3s	80.12	27	P		P	06 39 19.9	-0.8
N17K	comp-Z,3.3nm,1.3s						06 39 44.9	
N17K	comp-Z,3.3nm,1.3s	80.12	27	P		P	06 39 22.4	+1.7
L17K	comp-Z,3.3nm,1.3s	80.30	25	P		P	06 39 23.1	+1.4
M17K	comp-Z,3.3nm,1.3s	80.36	26	P		P	06 39 22.9	+0.9
M17K	comp-Z,3.3nm,1.3s						06 39 26.3	
M17K	comp-Z,3.3nm,1.3s	80.36	26	P		P	06 39 23.5	+1.5
Q18K	comp-Z,3.3nm,1.3s	80.41	29	P		P	06 39 23.4	+1.0
J17K	comp-Z,3.3nm,1.3s	80.52	24	P		P	06 39 24.2	+1.3
K17K	comp-Z,3.3nm,1.3s	80.55	25	P		P	06 39 22.9	0.0
K17K	comp-Z,3.3nm,1.3s						06 39 25.2	
K17K	comp-Z,3.3nm,1.3s	80.55	25	P		P	06 39 24.3	+1.3
P16K	comp-Z,3.3nm,1.3s	80.58	28	P		P	06 39 23.7	+0.4
C18K	comp-Z,3.3nm,1.3s	80.67	18	P		P	06 39 24.9	+1.4
OHAK	comp-Z,3.3nm,1.3s	80.76	31	P		P	06 39 24.2	0.0
OHAK	comp-Z,3.3nm,1.3s	80.76	31	P		P	06 39 24.4	+0.4
G17K	comp-Z,3.3nm,1.3s	80.87	22	P		P	06 39 26.3	+1.6
H17K	comp-Z,3.3nm,1.3s	80.89	22	P		P	06 39 26.3	+1.5
L18K	comp-Z,3.3nm,1.3s	81.02	25	P		P	06 39 24.9	-0.6
L18K	comp-Z,3.3nm,1.3s						06 39 29.0	
L18K	comp-Z,3.3nm,1.3s	81.02	25	P		P	06 39 26.8	+1.3
M18K	comp-Z,3.3nm,1.3s	81.11	26	P		P	06 39 27.2	+1.2
E17K	comp-Z,3.3nm,1.3s	81.21	20	P		P	06 39 27.6	+1.2
KDAK	comp-Z,3.3nm,1.3s	81.31	30	P		P	06 39 28.1	+1.0
N19K	comp-Z,3.3nm,1.3s	81.46	27	P		P	06 39 27.9	-0.1
N19K	comp-Z,3.3nm,1.3s						06 39 29.4	
N19K	comp-Z,3.3nm,1.3s	81.46	27	P		P	06 39 28.9	+0.9
C17K	comp-Z,3.3nm,1.3s	81.46	19	P		P	06 39 29.2	+1.4
J18K	comp-Z,3.3nm,1.3s	81.51	24	P		P	06 39 29.1	+0.9
P19K	comp-Z,3.3nm,1.3s	81.63	28	P		P	06 39 29.3	+0.5
Q20K	comp-Z,3.3nm,1.3s	81.68	30	P		P	06 39 29.8	+0.7
F18K	comp-Z,3.3nm,1.3s	81.74	21	P		P	06 39 30.8	+1.6
G18K	comp-Z,3.3nm,1.3s	81.79	22	P		P	06 39 29.4	-0.1
G18K	comp-Z,3.3nm,1.3s						06 39 30.9	+1.4
E18K	comp-Z,3.3nm,1.3s	81.79	20	P		P	06 39 29.6	+0.1
E18K	comp-Z,3.3nm,1.3s						06 39 34.2	
E18K	comp-Z,3.3nm,1.3s	81.79	20	P		P	06 39 30.9	+1.4
L19K	comp-Z,3.3nm,1.3s	81.80	26	P		P	06 39 29.5	-0.2
L19K	comp-Z,3.3nm,1.3s						06 39 32.9	
L19K	comp-Z,3.3nm,1.3s	81.80	26	P		P	06 39 30.8	+1.1
J19K	comp-Z,3.3nm,1.3s	82.17	24	P		P	06 39 32.4	+0.8
J19K	comp-Z,3.3nm,1.3s	82.17	24	P		P	06 39 32.9	+1.3
C18K	comp-Z,3.3nm,1.3s	82.18	19	P		P	06 39 32.5	+0.8
C18K	comp-Z,3.3nm,1.3s						06 39 34.1	
C18K	comp-Z,3.3nm,1.3s	82.18	19	P		P	06 39 32.8	+1.2
L20K	comp-Z,3.3nm,1.3s	82.33	26	P		P	06 39 33.2	+0.7
B18K	comp-Z,3.3nm,1.3s	82.34	18	P		P	06 39 33.4	+1.1
HOM	comp-Z,3.3nm,1.3s	82.39	29	P		P	06 39 33.6	+0.9
M20K	comp-Z,3.3nm,1.3s	82.45	26	P		P	06 39 33.8	+0.6
M20K	comp-Z,3.3nm,1.3s						06 39 36.2	
M20K	comp-Z,3.3nm,1.3s	82.45	26	P		P	06 39 34.2	+1.1
H19K	comp-Z,3.3nm,1.3s	82.46	22	P		P	06 39 33.8	+0.7
H19K	comp-Z,3.3nm,1.3s	82.46	22	P		P	06 39 34.4	+1.4
G19K	comp-Z,3.3nm,1.3s	82.47	22	P		P	06 39 33.8	+0.7
G19K	comp-Z,3.3nm,1.3s	82.47	22	P		P	06 39 34.2	+1.1
F19K	comp-Z,3.3nm,1.3s	82.51	21	P		P	06 39 34.5	+1.2
K20K	comp-Z,3.3nm,1.3s	82.57	25	P		P	06 39 34.6	+0.9
J20K	comp-Z,3.3nm,1.3s	82.84	24	P		P	06 39 35.2	+0.1
J20K	comp-Z,3.3nm,1.3s						06 39 37.9	
J20K	comp-Z,3.3nm,1.3s	82.84	24	P		P	06 39 36.4	+1.4
BRSE	comp-Z,3.3nm,1.3s	82.85	29	P		P	06 39 35.2	0.0
C19K	comp-Z,3.3nm,1.3s	82.91	19	P		P	06 39 36.8	+1.4
I20K	comp-Z,3.3nm,1.3s	82.94	23	P		P	06 39 36.1	+0.5
E19K	comp-Z,3.3nm,1.3s	82.97	21	P		P	06 39 36.6	+0.9
E19K	comp-Z,3.3nm,1.3s						06 39 38.6	
E19K	comp-Z,3.3nm,1.3s	82.97	21	P		P	06 39 37.1	+1.4
H20K	comp-Z,3.3nm,1.3s	83.05	23	P		P	06 39 37.2	+1.1
D19K	comp-Z,3.3nm,1.3s	83.11	19	P		P	06 39 36.4	-0.1
D19K	comp-Z,3.3nm,1.3s						06 39 39.4	
D19K	comp-Z,3.3nm,1.3s	83.11	19	P		P	06 39 37.7	+1.3
SLKM	comp-Z,3.3nm,1.3s	83.33	28	P		P	06 39 37.5	-0.3
F20K	comp-Z,3.3nm,1.3s	83.34	21	P		P	06 39 39.1	+1.5
SUA	comp-Z,3.3nm,1.3s	83.38	27	P		P	06 39 39.0	+1.0
CAST	comp-Z,3.3nm,1.3s	83.43	25	P		P	06 39 39.1	+0.9
CHUM	comp-Z,3.3nm,1.3s	83.49	25	P		P	06 39 39.7	+1.2
SEW	comp-Z,3.3nm,1.3s	83.58	29	P		P	06 39 40.0	+1.1
E20K	comp-Z,3.3nm,1.3s	83.66	20	P		P	06 39 40.6	+1.3
D20K	comp-Z,3.3nm,1.3s	83.71	19	P		P	06 39 40.9	+1.4
M22K	comp-Z,3.3nm,1.3s	83.76	27	P		P	06 39 40.7	+0.9
G21K	comp-Z,3.3nm,1.3s	83.95	22	P		P	06 39 42.5	+1.8
KTH	comp-Z,3.3nm,1.3s	83.97	25	P		P	06 39 40.5	-0.5
KTH	comp-Z,3.3nm,1.3s						06 39 44.8	

B20K	comp-Z,7.5nm,1.3s	84.08	18	P		P	06 39 40.8	-0.5
B20K	comp-Z,7.5nm,1.3s						06 39 42.2	+0.9
BPAW	comp-Z,7.5nm,1.3s	84.11	25	P		P	06 39 42.5	+0.8
PMR	comp-Z,7.5nm,1.3s	84.16	27	P		P	06 39 42.2	+0.3
PMR	comp-Z,7.5nm,1.3s						06 39 43.6	
PMR	comp-Z,7.5nm,1.3s	84.16	27	P		P	06 39 42.4	+0.6
TRF	comp-Z,7.5nm,1.3s	84.20	25	P		P	06 39 42.8	+0.5
GHO	comp-Z,7.5nm,1.3s	84.31	27	P		P	06 39 42.2	-0.6
PWL	comp-Z,7.5nm,1.3s	84.32	28	P		P	06 39 43.9	+1.1
KNK	comp-Z,7.5nm,1.3s	84.42	28	P		P	06 39 44.7	+1.5
C21K	comp-Z,7.5nm,1.3s	84.49	19	P		P	06 39 44.8	+1.4
E21K	comp-Z,7.5nm,1.3s	84.49	20	P		P	06 39 44.9	+1.4
MLY	comp-Z,7.5nm,1.3s	84.52	24	P		P	06 39 43.1	-0.6
MLY	comp-Z,7.5nm,1.3s						06 39 45.9	
MLY	comp-Z,7.5nm,1.3s	84.52	24	P		P	06 39 45.0	+1.3
P23K	comp-Z,7.5nm,1.3s	84.54	29	P		P	06 39 45.2	+1.4
H22K	comp-Z,7.5nm,1.3s	84.54	23	P		P	06 39 46.0	+2.2
AB31	comp-Z,7.5nm,1.3s	84.55	320	P		P	06 39 43.8	-0.3
AB31	comp-Z,7.5nm,1.3s						06 39 43.9	-0.2
AB31	comp-Z,7.5nm,1.3s	84.55	320	P		P	06 39 44.2	+0.1
AB31	comp-Z,7.5nm,1.3s	84.73	19	P		P	06 39 46.5	+1.9
WAT1	comp-Z,7.5nm,1.3s	84.78	26	P		P	06 39 46.6	+1.5
M23K	comp-Z,7.5nm,1.3s	84.86	27	P		P	06 39 45.5	+1.0
MCK	comp-Z,7.5nm,1.3s	84.87	25	P		P	06 39 44.9	-0.6
MCK	comp-Z,7.5nm,1.3s						06 39 45.9	
MCK	comp-Z,7.5nm,1.3s	84.87	25	P		P	06 39 46.4	+0.9
Q23K	comp-Z,7.5nm,1.3s	84.91	30	P		P	06 39 46.3	+0.6
GLI	comp-Z,7.5nm,1.3s	84.91	28	P		P	06 39 46.6	+0.9
SCM	comp-Z,7.5nm,1.3s	85.05	27	P		P	06 39 46.0	-0.5
SCM	comp-Z,7.5nm,1.3s	85.05	27	P		P	06 39 47.6	+1.1
NEA2	comp-Z,7.5nm,1.3s	85.06	24	P		P	06 39 47.5	+1.1
NEA2	comp-Z,7.5nm,1.3s						06 39 48.8	
NEA2	comp-Z,7.5nm,1.3s	85.06	24	P		P	06 39 47.7	+1.3
WAT6	comp-Z,7.5nm,1.3s	85.06	27	P		P	06 39 47.7	+1.0
D22K	comp-Z,7.5nm,1.3s	85.09	20	P		P	06 39 48.1	+1.6
I23K	comp-Z,7.5nm,1.3s	85.11	24	P		P	06 39 47.3	+0.7
I23K	comp-Z,7.5nm,1.3s						06 39 49.7	
I23K	comp-Z,7.5nm,1.3s	85.11	24	P		P	06 39 47.9	+1.4
E22K	comp-Z,7.5nm,1.3s	85.13	21	P		P	06 39 48.9	+1.9

24d 7h

Table with columns: ID, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like AKTYUBINSK INF, DUBNA INFRASOUND, etc.

IDC 24 06:39:10.2,3.5,53.60N-87.98E, h0km, mbtmp2.7/2, ML2.4/2, Error ellipse: s-maj=33.6km s-min=19.5km az=54.0

ASRS 24 06:39:07.0:1.2,53.61N-87.92E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, etc.

NEIC 24 06:43:19.3:0.4,39.10N-03.99:09W, 0.03, h1km, 7km, mb\_Lg2.6/34, Error ellipse: s-maj=4.3km s-min=3.0km az=160.0, Kansas

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Cedar Bluff, Long Quarter, Kansas State U, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Grant County #, West end E0370, etc.

SDD 24 06:52:24.5:1.6, 19.23N-66.53W, h22km, 85km, MD3.5 NEIC 24 06:52:24.9:1.0, 19.20N:05:66:55W, 0.04, h26km, 12km, ML2.2/22, Md2.7/14(RSPR), Error ellipse: s-maj=7.8km s-min=5.4km az=190.0

OSPL 24 06:52:26.2:0.4, 19.18N:66:63W, h12km, 4km, ML1.9 RSPR 24 06:52:27.5, 19.12N:66:54W, h11km, 2km, MD2.7/14 ISC 24 06:52:23.6:1.8, 19.23N:08:08:66.55W, 0.04, h22km, 9km, n53, r060/71, 21C-3D, Puerto Rico region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Esperanza - Ma, Esperanza - Ma, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Guaynabo City, Cerrillos, Puerto Rico Se, etc.

IDC 24 06:54:56.2:3.4,53.51N-87.74E, h0km, mbtmp2.6/2, ML2.5/1, Error ellipse: s-maj=34.5km s-min=18.2km az=55.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, etc.

IDC 24 07:01:03.1:1.9,2.38S-138.47E, h0km, mb3.2/2, mbtmp3.3/4, ML3.3/2, Error ellipse: s-maj=33.4km s-min=19.8km az=165.0, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Jayapura, Warramunga Arr, etc.

IDC 24 07:10:03.5:3.4,54.17N-87.23E, h0km, mbtmp3.3/2, ML2.6/2, Error ellipse: s-maj=30.5km s-min=18.6km az=56.0

ASRS 24 07:10:02.0:0.8,54.15N-87.11E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ZALESOVO INFRA, Zalesovo Beam, etc.

IDC 24 07:11:46.2:2.7,4.72S-130.95E, h0km, mb3.6/1, mbtmp3.7/4, ML3.8/3, Error ellipse: s-maj=123.6km s-min=30.0km az=76.0

DJA 24 07:11:53.9:0.8,4.57S:13:11E, h11km, 8km, M4.2/10, mb4.4/2, MLV4.0/10

ISC 24 07:11:52.2:0.8,4.69S:07:13:01E, 0.05, h35km, n22, e215/24, Banda Sea

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BNDI, BNDI, etc.

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Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like FITZ, FITZroy Crossi, etc.

IDC 24 07:19:42.8:0.5,2.67S-138.62E, h0km, mb4.6/20, mbtmp4.6/24, ML4.4/4, MS4.2/11, Error ellipse: s-maj=13.2km s-min=11.6km az=64.0

BUI 24 07:19:43.0:2.70S:138.60E, h10km, mB5.1/9, mb4.8/67, Ms4.6/19, Ms7.4/16

MOS 24 07:19:43.7:0.7,2.73S:138.63E, h17km, mb5.1/44, Error ellipse: s-maj=10.1km s-min=5.4km az=112.3

NEIC 24 07:19:45.6:1.3,2.66S:0.08:138.64E, 0.06, h10km, 1km, mb5.0/193, Error ellipse: s-maj=13.2km s-min=10.0km az=176.0

DJA 24 07:19:46.0:0.2,3.52S:138.64E, h16km, 8/33, MS4.9/33, mB5.3/11, MLV4.9/9, Mw(mB)4.7/11

ISC 24 07:19:45.8:0.5,2.67S:0.04:138.63E, 0.04, h16km, 2km, h16km:pp-P, n595, r1903/567, mb5.0/164, MS4.2/15, 9C-2D, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like Sarmi, Genyem, Jayapura, etc.



24d 7h

Table with columns for station ID, name, elevation, and status. Includes stations like BRVK Borovoye, M16K Timber Creek, F15K North Star Dit, etc.

2019 JUN

Table with columns for station ID, name, elevation, and status. Includes stations like J20K Nowinta River, C19K Lookout Ridge, I20K Naaghedeneel, etc.

1500

Table with columns for station ID, name, elevation, and status. Includes stations like HDA Harding Lake, E23K Chandalar, H24K Noodor Dome, etc.



Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like TTSI Tana Toraja, BBSI Bau Bau, SPSI Sidrap Palau, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like PETK Petrovavlovsk, NRN Naryn, KBL Kabul, etc.

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like SVBV Belmont, CACV CAICARA DEL OR, etc.

ASRS 24 08:25:03.0:2.5,53:65N:87.97E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

ASRS 24 08:25:11.0:1.4,53:38N:87.21E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

IDC 24 08:30:25.2:3.5,54:19N:87.28E, h0km, mbtmp 2.72, ML2.4/2, Error ellipse: s-maj=31.8km s-min=20.2km az=50.0

ASRS 24 08:30:24.0:1.1,54:19N:87.13E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

IDC 24 08:45:13.0:3.6,54:23N:87.45E, h0km, mbtmp 2.72, ML2.3/2, Error ellipse: s-maj=31.3km s-min=21.0km

ASRS 24 08:45:13.0:1.1,54:21N:87.17E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

ASRS 24 08:56:13.0:2.2,53:77N:91.02E, h0km, M2.8, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 24 08:56:25.0:5.0,53:40N:90.35E, h0km, mbtmp 3.1/3, ML2.5/3, Error ellipse: s-maj=52.7km s-min=26.1km az=53.0, Southwestern Siberia

NEIC 24 09:04:22.64:21N:149.76W, h19km, Moment Tensor Solution. Moment tensor: Scale 1014Nm; Mr=1.0; Mw=0.88; Mo=1.0; Mo=0.66; Mw=0.66; Mw=0.66; Fault plane solution: Mo:1.33000e+10; NP1:139.00000e, 886.00000e, -135.00000e. NP2:45.00000e, 845.00000e, -1.50000e. Principal axes: T:1.3330, P1g27.0000e, Azm263.0000e; N:0.0000, P1g45.0000e, Azm142.0000e; P:-1.3330, P1g33.0000e, Azm12.0000e

NEIC 24 09:04:23.1:1.1,64:27N:102.149:86W:0.05, h20km, 9km Error ellipse: s-maj=3.9km s-min=1.9km az=128.0

AEIC 24 04:23.3:1.1,64:28N:101:149:85W:0.06, h21km, 7km, ML3.4, ML3.5/162(NEIC), Mw3.4/23(SLM), Error ellipse: s-maj=3.7km s-min=1.7km az=89.0, Central Alaska

Table with columns: Station Name, Time, Res, ISC, h, m, s, ISC. Includes stations like BWN Browne, NEA2 Nenana, BPAW Bear Paw Mtn, etc.



Table with columns: TRF, TRF, KTH, KTH, I23K, I23K, CCB, CCB, CCB, RND, COLA, CHUM, HDA, HDA, I21K, I21K, CAST, CAST, IL31, ILAR, WAT7, H23K, WAT1, DHY, DHY, PPLA, PPLA, H22K, H24K, H21K, J20K, J20K, CUT, J25K, J25K, K20K, K20K, RIDG, RIDG, SKT, SKT, G23K, J19K, GHO, GHO, SCM, SCM, PMR, PMR, G21K, G21K, J26L, J26L, M24K, M24K, M24K, M20K, SUA, STLK, STLK, COLD, FYU, H19K, H19K, CKL, F24K, K27K, K27K, K27K, PWL, PWL, PWL, G19K, G19K, F20K, F20K, L18K, L18K, H18K, H18K, L27K, L27K, SLKM, BCAR, BMAR, E24K, E24K, FID, H27K, G18K, G18K, K17K, K17K, F26K, F19K, F19K, J17K

Table with columns: J17K, J17K, E25K, G27K, G27K, H17K, H17K, H17K, TOLK, I28M, I28M, I28M, E19K, E19K, E21K, E21K, M17K, D23K, D23K, E20K, D22K, D22K, I17K, I17K, I17K, L16K, C21K, F28M, M16K, D19K, E18K, M29M, G16K, G22M, K15K, E17K, J30M, C27K, C18K, C18K, E29M, IDC 24 09:16:37.2, 4.9, 5.30S:153.50E, h0km, mb3.6/5, mbtmp3.6/5, MS3.2/1, Error ellipse: s-maj=142.5km s-min=29.7km az=110.0, N-phase region, WRA, ASAR, FITZ, TGY, SONM, MKAR, IDC 24 09:19:56.3, 3.6, 5.4:30N:87.35E, h0km, mbtmp2.8/2, MS2.1/1, Error ellipse: s-maj=33.5km s-min=20.4km az=43.0, ASRS 24 09:19:57.0, 0.9, 5.4:19N:86.99E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia, H46RU, ZALV, ZALV, KURBB, MKAR, MKAR, IDC 24 09:21:08.8, 6.9, 7.22S:129.74E, h0km, mb4.1/1, mbtmp3.8/4, ML3.5/3, Error ellipse: s-maj=88.6km s-min=54.1km az=144.0, Banda Sea, FITZ, WRA, WRA, ASAR, STKA, ILAR, IDC 24 09:29:41.2, 2.0, 2.62S:138.68E, h0km, mb3.1/2, mbtmp3.1/4, ML3.1/2, Error ellipse: s-maj=37.4km s-min=18.5km az=159.0, Irian Jaya, KAZAKHSTAN, JAY, JAY, WRA, ASAR, ILAR, IDC 24 09:29:46.0, 9.99, 0.41:43N:68.04E, h0km, Error ellipse: s-maj=174.0km s-min=222.3km az=142.0, Central Kazakhstan, I31KZ, I43RU, I26DE, ASRS 24 09:30:49.0, 1.1, 5.3:59N:88.02E, h0km, M2.9, The

Table with columns: earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., IDC 24 09:30:51.6, 2.8, 5.3:58N:87.86E, h0km, mbtmp3.1/2, ML2.8/2, Error ellipse: s-maj=26.2km s-min=16.8km az=58.0, NNC 24 09:30:52.3, 3.3, 5.3:46N:87.84E, h1km, mb3.1, mpv2.8, Error ellipse: s-maj=28.5km s-min=11.9km az=72.0, Suspected Mining explosion, ISC 24 09:30:52.9, 3.6, 5.3:6N:0.1:87.7E:0.2, h0km, n9, s1903/13, 9C-4D, Southwestern Siberia, Code, Station Name, Delta A, AZ, Phase ID, Time Res, ISC, h m s, ISC, ZAAO, ZAAO, ZALV, ZALV, H46RU, H46RU, KURK, KURK, KURK, KURBB, KURBB, KURBB, KURBB, MK31, MK31, MKAR, MKAR, MAKZ, MAKZ, MAKZ, TAP 24 09:30:59.1, 23.53N:120.75E, h14km, ML2.3, A, Taiwan, Code, Station Name, Delta A, AZ, Phase ID, Time Res, ISC, h m s, ISC, ALS, ALS, CHNS, CHNS, WCKO, WCKO, WHYT, WHYT, WDLH, WDLH, CHN2, CHN2, TPUB, TPUB, TPUB, TPUB, WJS, WJS, WJS, CHY, CHY, WTP, WTP, SSSLB, SSSLB, SSSLB, TWK, TWK, STYH, STYH, WTK, WTK, WTK, SMLT, SMLT, SNST, SNST, CHN1, CHN1, ELDTW, ELDTW, VVDT, VVDT, ICHU, ICHU, WSL, WSL, YULB, YULB, YULB, EHY, EHY, EHY, EHY, WFC, WFC, EHYH, EHYH, WUSB, WUSB, WUSB, WCHH, WCHH, OWD, OWD, OWD, FULB, FULB, TCU, TCU, HGSD, HGSD, HGSD, CHKH, CHKH, LONT, LONT, TWG, TWG, TWG, TWGB, TWGB, TAP 24 09:30:59.4, 23.91N:121.77E, h45km, 1km, ML2.6, D, Taiwan, Code, Station Name, Delta A, AZ, Phase ID, Time Res, ISC, h m s, ISC, TEYL, TEYL, SHUL, SHUL, SHUL, SHUL, TWD, TWD, ETM, ETM, ETL, ETL, ETL, ETL, NACS, NACS, ESL, ESL, ESL, LXIB, LXIB, LXIB, ETLH, ETLH, ETLH, ETLH, WARB, WARB, WHF, WHF, FUSS, FUSS, FUSS, FUSS, NNSB, NNSB, NNSB, NNS



1505

BXJ	comp=E,32nm,9.4s	LR	LR			
BNX	comp=Z,65nm,14.1s					
BNX	comp=Z,1.1nm,1.0s	p pmax	p pmax	10 05 34.6	+0.2	
HHC	comp=Z,9.0nm,0.5s	eP	P	10 05 42.8	+3.6	
HHC	Lanzhou	p pmax	p pmax			
LZH	comp=Z,9.0nm,0.5s	eP	pP	10 05 44.4	+1.1	
LZH	Lanzhou	sP	pP	10 05 52.4	-1.6	
LZH	comp=Z,2.29nm,1.2s	eP	pmax			
HEH	comp=Z,7.0nm,1.0s	eP	pmax	10 06 07.4	+0.4	
HEH	Heihe	p pmax	p pmax			
GTA	comp=Z,1.9nm,0.6s	eP	P	10 06 18.9	+1.7	
GTA	Gaotai	pP	P	10 06 25.8	-2.0	
GTA	comp=Z,1.9nm,0.6s	eP	pmax			
SOMN	comp=Z,10.0nm,1.2s	P	P	10 06 37.1	+1.0	
SOMN	Songino Array	P	P	10 06 35.9	-0.2	
SOMN	comp=Z,1.9nm,0.6s	baz=57.325	slow=7.1,SNR=10			
PETK	comp=Z,2.6nm,0.8s	baz=160	slow=4.7,SNR=7.0			
PETK	Petrovskoyevsk	57.90	14	P	P	
PETK	Petrovskoyevsk	57.90	14	P	P	
EVN	comp=Z,2.6nm,0.8s	baz=160	slow=4.7,SNR=7.0			
EVN	Everest	58.28	305	P	10 06 42.2	+0.6
EVN	comp=Z,4.3nm,0.5s	Iamb	Iamb	10 06 43.3		
WMO	comp=Z,4.3nm,0.5s	Iamb	Iamb	10 07 28.3	+3.0	
MKAR	Urumqi	64.87	322	eP	P	
MKAR	Makanchi Array	69.65	322	P	P	
MKAR	Makanchi Array	69.65	322	P	P	
MAKZ	comp=Z,6.2nm,1.0s	baz=111	slow=6.6,SNR=32			
MAKZ	Makanchi	69.85	322	P	10 07 57.8	+1.1
MAKZ	comp=Z,12nm,1.1s	Iamb	Iamb	10 07 59.4		
KSH	comp=Z,4.0nm,0.6s	P	P	10 08 06.3	+2.8	
KSH	Kashi	70.92	313	P	pmax	
ZALV	comp=Z,4.0nm,0.6s	P	P	10 08 07.9	-0.6	
ZALV	Zalesovo Beam	71.82	330	P	P	
ZALV	Zalesovo Beam	71.82	330	P	P	
BOOM	comp=Z,1.9nm,0.6s	baz=113	slow=3.9,SNR=7.3			
BOOM	Boomsokoye usch	72.00	316	P	10 08 11.5	+1.5
BOOM	comp=Z,4.6nm,0.6s	Iamb	Iamb	10 08 12.6		
UNV	comp=Z,4.6nm,0.6s	Iamb	Iamb	10 08 13.6	+1.6	
UNV	Unalaska Valle	72.43	31	P	P	
KURK	comp=Z,4.6nm,0.6s	Iamb	Iamb	10 08 19.9	+0.9	
KURB	Kurchatov	73.59	325	P	P	
KURB	Kurchatov Arra	73.60	325	P	P	
KURB	comp=Z,2.2nm,1.0s	baz=122	slow=5.4,SNR=11			
ARSB	comp=Z,2.2nm,1.0s	baz=122	slow=5.4,SNR=11			
ARSB	Arslanbob	73.68	314	Iamb	Iamb	
TIXI	comp=Z,1.9nm,0.6s	baz=113	slow=3.9,SNR=7.3			
TIXI	Tiksi	74.48	357	P	P	
S12K	comp=Z,1.9nm,0.6s	baz=113	slow=3.9,SNR=7.3			
S12K	Black Hills	75.58	30	P	P	
S12K	Black Hills	75.58	30	P	P	
VNDA	comp=Z,1.9nm,0.6s	baz=113	slow=3.9,SNR=7.3			
VNDA	Vanda	75.81	175	P	10 08 31.9	+0.5
VNDA	comp=Z,1.7nm,2.0s	Iamb	Iamb	10 10 52.9		
VNDA	Vanda	75.81	175	P	10 08 32.1	+0.7
VNDA	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
VNDA	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
SMJ	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
SMJ	Simiganj	75.83	311	P	P	
KKAR	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
KKAR	Kararay Array	75.98	316	P	P	
M11K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
M11K	Mekoryuk	76.00	25	P	10 08 34.4	+1.6
SDPT	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
SDPT	Sand Point	76.23	31	P	10 08 35.3	+1.1
CHNA	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
CHNA	Chernabura Isl	76.47	32	P	10 08 36.4	+0.9
S14K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
S14K	Fog Glacier	77.11	30	P	10 08 40.1	+0.9
M13K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
M13K	Dali Lake	77.23	26	P	10 08 41.4	+1.7
K13K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
K13K	Kusilivak Mount	77.46	24	Iamb	Iamb	
K13K	Kusilivak Mount	77.46	24	P	10 08 44.3	+1.5
O14K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
O14K	Tiguykaiuvet M	77.61	27	P	10 08 43.6	+1.8
N14K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
N14K	Kuskokwak Cree	77.73	26	P	10 08 44.1	+1.7
M14K	comp=Z,1.4nm,0.6s	baz=328	slow=6.3,SNR=9.4			
M14K	Bethel	78.00	26	P	10 08 45.4	+1.5
M14K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 45.4	+1.5	
M14K	Bethel	78.00	26	P	10 08 45.4	+1.5
O15K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 46.9	+1.6	
O15K	Ungalikthiuk R	78.23	28	P	10 08 46.9	+1.6
M15K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 48.7	+1.7	
M15K	Kasigluk River	78.53	26	P	10 08 48.7	+1.7
N15K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 48.8	+1.7	
N15K	Kwethluk River	78.55	27	P	10 08 48.8	+1.7
ANM	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 48.9	+1.8	
ANM	Nome	78.57	21	P	10 08 48.9	+1.8
L15K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 49.2	+1.6	
L15K	Ungalak Moun	78.64	25	P	10 08 49.2	+1.6
K15K	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 50.1	+1.8	
K15K	Wolf Creek Mou	78.91	24	P	10 08 50.9	+1.9
K15K	Wolf Creek Mou	78.91	24	P	10 08 50.9	+1.9
CHIR	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 50.1	+0.8	
CHIR	Chirikof Islan	78.94	32	P	10 08 50.1	+0.8
BVAR	comp=Z,1.2nm,0.9s	Iamb	Iamb	10 08 51.1	+0.4	
BVAR	Borovoye Array	79.18	325	P	10 08 51.1	+0.4
BVAR	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
O16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
O16K	Kokwok River B	79.21	28	P	10 08 52.9	+2.1
N16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
N16K	Nishlik Lake	79.28	27	P	10 08 52.8	+1.6
G15K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
G15K	Uukluk	79.28	21	P	10 08 52.0	+1.0
M16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
M16K	Timber Creek	79.43	26	P	10 08 54.2	
M16K	Timber Creek	79.43	26	P	10 08 52.7	+0.8
F15K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
F15K	North Star Dit	79.43	21	P	10 08 53.0	+1.2
L16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
L16K	Owhat River	79.51	25	Iamb	Iamb	
L16K	Owhat River	79.51	25	P	10 08 53.8	+1.5
Q16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
Q16K	King Salmon	79.52	29	P	10 08 53.8	+1.5
Q17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
Q17K	Contact Creek	79.73	29	P	10 08 54.6	+0.9
O17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
O17K	Koliganek Bris	79.75	28	P	10 08 55.2	+1.6
J16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
J16K	Anvik River	79.75	24	Iamb	Iamb	
J16K	Anvik River	79.75	24	P	10 08 56.4	
J16K	Anvik River	79.75	24	P	10 08 55.1	+1.5
I17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
I17K	Unalakleet	80.00	23	P	10 08 55.8	+1.0
N17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
N17K	Nushagak Hills	80.01	27	Iamb	Iamb	
N17K	Nushagak Hills	80.01	27	P	10 08 57.7	
N17K	Nushagak Hills	80.01	27	P	10 08 56.4	+1.3
G16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
G16K	Koyuk River	80.09	21	P	10 08 57.5	+2.1
R18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
R18K	Karluk	80.18	30	P	10 08 57.4	+1.4
L17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
L17K	Donlin	80.19	25	P	10 08 57.8	+1.8
M17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
M17K	Holinta River	80.26	26	P	10 08 58.0	+1.7
Q18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
Q18K	Katmai Hardscr	80.30	29	P	10 08 58.0	+1.2
J17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
J17K	VABM Dome	80.42	24	P	10 08 58.3	+1.1
K17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
K17K	Iditarod	80.44	25	Iamb	Iamb	
K17K	Iditarod	80.44	25	P	10 09 00.0	
K17K	Iditarod	80.44	25	P	10 08 58.7	+1.3
C16K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
C16K	Lisburne Hills	80.58	18	P	10 08 59.7	+1.8
OHAK	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
OHAK	Old Harbor	80.65	31	P	10 09 00.4	+1.8
O18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
O18K	Koktuh Hills	80.66	28	P	10 08 59.9	+1.4
N18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
N18K	Kilae Creek	80.66	27	P	10 09 00.7	+2.2
G17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
G17K	Kiwalik Moun	80.77	22	P	10 09 00.9	+1.8

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H17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
H17K	Granite Mounta	80.78	22	P	10 09 00.7	+1.6
L18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
L18K	Granite Mounta	80.92	25	Iamb	Iamb	
L18K	Granite Mounta	80.92	25	P	10 09 02.4	
D17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
D17K	Noatak River	81.00	19	P	10 09 01.7	+1.5
F17K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
F17K	Baldwin Pennin	81.00	21	P	10 09 02.1	+1.9
M18K	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
M18K	Stony River	81.00	26	P	10 09 01.9	+1.5
KDAK	comp=Z,2.9nm,0.6s	baz=242	slow=10.7,SNR=11			
KDAK	Kodiak Island	81.20	30	P	10 09 02.5	+1.0
KDAK	comp=Z,6.0nm,0.8s	baz=250	slow=8.2,SNR=6.3			
KDAK	Kodiak Island	81.20	30	P	10 09 03.0	+1.6
NDAK	comp=Z,6.0nm,0.8s	baz=250	slow=8.2,SNR=6.3			
NDAK	Bonanza Creek	81.35	27	P	10 09 03.6	+1.2
C17K	comp=Z,6.0nm,0.8s	baz=250	slow=8.2,SNR=6.3			



TKL	comp=Z,14nm,0.9s Tuckaleechee C	22.20	20	P		10 17 01.3	-2.7
KAN18	comp=Z,2.2nm,0.4s South Star SW	22.85	351	Iamb	Iamb	10 17 07.1	
U49A	comp=Z,15nm,0.6s Red Boiling Sp	22.91	15	Iamb	Iamb	10 17 24.3	
V53A	comp=Z,15nm,1.1s Saluda	23.03	22	Iamb	Iamb	10 17 28.4	
T47A	comp=Z,40nm,1.4s Sharon Grove	23.07	12	Iamb	Iamb	10 17 27.5	
S44A	comp=Z,12nm,0.8s Carbondale	23.41	7	Iamb	Iamb	10 17 37.4	
SIUC	comp=Z,15nm,0.9s Southern Illin	23.43	7	Iamb	Iamb	10 17 46.5	
TZTN	comp=Z,21nm,1.2s Tazewell	23.58	19	Iamb	Iamb	10 17 49.3	
CCM	comp=Z,21nm,1.2s Cathedral Cave	23.58	3	P		10 17 10.6	-2.2
ANMO	comp=Z,23.78 Albuquerque	23.78	32	P		10 17 16.0	+1.1
V55A	comp=Z,23.80 Taylorsville	23.80	24	Iamb	Iamb	10 17 33.4	
TUC	comp=Z,23.9m,1.4s Tucson	24.11	321	P		10 17 20.1	+2.1
WCI	comp=Z,11nm,0.9s Wyandotte Cave	24.43	13	P		10 17 20.5	-0.1
R32A	comp=Z,14nm,1.0s Long Quarter,	24.44	349	Iamb	Iamb	10 17 43.5	
U56A	comp=Z,12nm,0.8s King	24.56	25	Iamb	Iamb	10 17 36.9	
S51A	comp=Z,14nm,1.0s Beattyville	24.57	18	Iamb	Iamb	10 17 38.1	
V58A	comp=Z,14nm,0.9s Windy Hill, Pi	24.64	28	Iamb	Iamb	10 17 22.8	
KSU1	comp=Z,11nm,0.8s Kansas State SW	24.79	353	Iamb	Iamb	10 17 25.1	
P40A	comp=Z,26nm,1.1s Paris	25.02	2	Iamb	Iamb	10 17 25.5	
214A	comp=Z,8.8nm,0.7s Organ Pipe Nat	25.17	317	P		10 17 28.6	+1.1
X18A	comp=Z,25.22 Snowflake	25.22	326	P		10 17 28.8	0.0
SDCO	comp=Z,25.76 Great Sand Dun	25.76	337	Iamb	Iamb	10 17 35.9	
ATAH	comp=Z,25.84 Athalupa	25.84	145	LR	LR	10 26 12.5	
SGJ	comp=Z,25.99 San Juan	25.99	78	LR	LR	10 27 15.8	
113A	comp=Z,26.31 Mohawk Valley,	26.31	318	P		10 17 39.9	+2.2
T59A	comp=Z,26.32 Double "B" Far	26.32	29	Iamb	Iamb	10 17 38.0	
MVCO	comp=Z,26.58 Mesa Verde	26.58	331	Iamb	Iamb	10 17 44.9	
PV13	comp=Z,26.59 Radium Mtn., P	26.59	332	Iamb	Iamb	10 17 57.5	
PV02	comp=Z,27.50 Paradox Valley	27.50	332	Iamb	Iamb	10 17 55.7	
PV05	comp=Z,27.56 Paradox Valley	27.56	332	Iamb	Iamb	10 17 53.2	
PV03	comp=Z,27.59 Paradox Valley	27.59	332	Iamb	Iamb	10 17 53.5	
PV11	comp=Z,27.64 David Mesa, Pa	27.64	332	Iamb	Iamb	10 18 02.9	
PV07	comp=Z,27.65 Paradox Valley	27.65	333	Iamb	Iamb	10 17 55.0	
PV17	comp=Z,27.66 East Wray Mesa	27.66	332	Iamb	Iamb	10 17 54.9	
PV16	comp=Z,27.66 Nyswonger Mesa	27.66	332	Iamb	Iamb	10 17 54.3	
PV19	comp=Z,27.70 Morning Glory	27.70	332	Iamb	Iamb	10 17 55.1	
PV20	comp=Z,27.71 West Nyswonger	27.71	332	Iamb	Iamb	10 17 54.6	
PV04	comp=Z,27.73 Paradox Valley	27.73	332	Iamb	Iamb	10 17 58.0	
PV14	comp=Z,27.76 Lion Creek, Pa	27.76	332	Iamb	Iamb	10 17 55.0	
PV10	comp=Z,27.77 Paradox Valley	27.77	332	Iamb	Iamb	10 17 55.3	
PV22	comp=Z,27.79 Blue Mesa, Par	27.79	333	Iamb	Iamb	10 17 55.5	
PFO	comp=Z,28.61 Phynon Flats O	28.61	316	LR	LR	10 31 09.3	
K30B	comp=Z,28.73 Basset	28.73	350	Iamb	Iamb	10 18 01.8	
ECSD	comp=Z,29.37 EROS Data Cent	29.37	355	Iamb	Iamb	10 18 07.2	
BSUT	comp=Z,30.30 Blindstream Ca	30.30	333	Iamb	Iamb	10 19 00.2	
NNA	comp=Z,30.72 Nana	30.72	148	LR	LR	10 28 25.4	
S11A	comp=Z,30.72 Rachel	30.72	323	Iamb	Iamb	10 18 25.4	
TCUT	comp=Z,31.06 Toone Canyon	31.06	332	Iamb	Iamb	10 18 29.0	
HWUT	comp=Z,31.53 Hardway Ranch	31.53	333	Iamb	Iamb	10 18 29.0	
PDAR	comp=Z,31.65 Pinedale Array	31.65	336	P		10 18 25.9	+0.5
PDAR	comp=Z,31.65 Pinedale Array	31.65	336	P		10 18 25.1	-0.4
PDAR	comp=Z,31.65 Pinedale Array	31.65	336	P		10 21 16.1	-0.8
TPH	comp=Z,31.88 Tonopah	31.88	322	Iamb	Iamb	10 18 30.0	
HVU	comp=Z,32.21 Hansel Valley	32.21	332	Iamb	Iamb	10 18 32.7	
AHID	comp=Z,32.27 Auburn Hatcher	32.27	335	Iamb	Iamb	10 18 42.0	
SADO	comp=Z,32.44 Sadowa	32.44	18	LR	LR	10 33 53.5	
ELK	comp=Z,32.63 Elko	32.63	328	LR	LR	10 33 26.4	
NV11	comp=Z,32.67 Mina Array Sit	32.67	322	Iamb	Iamb	10 18 37.5	
NVAR	comp=Z,32.76 Mina Array Bea	32.76	322	P		10 18 37.5	+2.4
NVAR	comp=Z,32.76 Mina Array Bea	32.76	322	P		10 18 36.8	+1.6
NVAR	comp=Z,32.76 Mina Array Bea	32.76	322	P		10 21 20.6	+0.6
NVAR	comp=Z,32.76 Mina Array Bea	32.76	322	P		10 33 35.7	
LHV	comp=Z,32.76 Little Huntuon	32.76	321	Iamb	Iamb	10 18 46.9	
FXWY	comp=Z,32.97 Fox Creek	32.97	336	Iamb	Iamb	10 18 44.3	
RYN	comp=Z,33.02 Ryan	33.02	322	Iamb	Iamb	10 18 41.5	
RLMT	comp=Z,33.37 Red Lodge	33.37	339	Iamb	Iamb	10 18 59.7	
YNE	comp=Z,33.74 Yellowstone No	33.74	338	Iamb	Iamb	10 19 03.7	
PNTR	comp=Z,33.96 Pine Nut	33.96	321	Iamb	Iamb	10 18 49.1	
YHL	comp=Z,34.04 Hebgen Lake	34.04	337	Iamb	Iamb	10 18 49.8	
MPK	comp=Z,34.35 Martis Peak	34.35	321	Iamb	Iamb	10 18 52.1	
BOZ	comp=Z,34.84 Bozeman (W)	34.84	337	Iamb	Iamb	10 18 57.2	
BEKR	comp=Z,34.90 Beckworth	34.90	322	Iamb	Iamb	10 18 56.5	
WVOR	comp=Z,35.62 Wild Horse Val	35.62	327	Iamb	Iamb	10 19 02.6	
ULM	comp=Z,35.84 Lac du Bonnet	35.84	357	P		10 18 58.4	-2.8
PLID	comp=Z,36.26 Pearl Lake	36.26	332	Iamb	Iamb	10 19 07.0	
MSO	comp=Z,36.76 Missoula	36.76	336	Iamb	Iamb	10 19 11.1	
YBH	comp=Z,37.46 Yreka Blue Hor	37.46	322	LR	LR	10 36 51.8	
D08A	comp=Z,39.08 Wollman Farm	39.08	332	Iamb	Iamb	10 19 31.5	
LPAZ	comp=Z,39.16 La Paz	39.16	140	LR	LR	10 35 07.6	
NEW	comp=Z,39.34 Newport	39.34	333	Iamb	Iamb	10 38 04.9	
C09A	comp=Z,39.34 Chrisman Ranch	39.34	333	Iamb	Iamb	10 19 47.6	
LON	comp=Z,40.24 Longmire	40.24	329	P		10 19 39.9	+1.2
MDP	comp=Z,40.74 Montaigne des	40.74	99	LR	LR	10 37 14.8	

LLLB	comp=Z,35.7nm,21.9s Lilloeet	43.02	333	P		10 20 01.7	+0.4
SCHO	comp=Z,45.15 Schefferville	45.15	21	PcP	PcP	10 21 57.0	-1.2
SCHO	comp=Z,46.2nm,18.2s Scho	46.2	208	slow-38	LR	10 40 40.4	
BBB	comp=Z,46.94 Bella Bella	46.94	331	LR	LR	10 43 21.3	
YKAW	comp=Z,50.37 Yellowknife Wh	50.37	347	Iamb	Iamb	10 20 59.7	
YKA	comp=Z,50.50 Yellowknife Ar	50.50	347	P		10 20 58.8	0.0
YKA	comp=Z,50.50 Yellowknife Ar	50.50	347	P		10 46 18.2	
TOAD	comp=Z,50.41 Toad River Com	50.41	339	P		10 20 59.6	+0.6
YKAW	comp=Z,50.46 Yellowknife Wh	50.46	347	Iamb	Iamb	10 21 00.5	
BEAVL	comp=Z,51.35 Fort Liard	51.35	340	P		10 21 07.3	+1.2
FRB	comp=Z,52.11 Frobisher Bay	52.11	13	LR	LR	10 46 39.7	
TAOE	comp=Z,52.20 Nuku Hiva Isla	52.20	247	eS	S	10 28 37.0	+1.4
TAOE	comp=Z,52.12 Nuku Hiva Isla	52.12	247	eS	SS	10 32 18.8	+5.1
TAOE	comp=Z,52.12 Nuku Hiva Isla	52.12	247	eS	eLR	10 36 13.0	
WTLY	comp=Z,52.58 Watson Lake, Y	52.58	338	Iamb	Iamb	10 21 17.0	
WTLY	comp=Z,52.58 Watson Lake, Y	52.58	338	P		10 21 16.3	+1.1
R33M	comp=Z,52.89 Jennings River	52.89	337	Iamb	Iamb	10 21 38.2	
R33M	comp=Z,52.89 Jennings River	52.89	337	P		10 21 19.2	+1.5
Q32M	comp=Z,53.12 Nakina River	53.12	336	Iamb	Iamb	10 21 24.8	
Q32M	comp=Z,53.12 Nakina River	53.12	336	P		10 21 20.9	+1.5
WRGLY	comp=Z,53.22 Wrigley	53.22	343	P		10 21 20.9	+1.1
SIT	comp=Z,53.24 Sitka	53.24	333	P		10 21 21.7	+1.7
CPUP	comp=Z,53.31 Villa Florida	53.31	339	LR	LR	10 45 21.7	
TGNT	comp=Z,53.40 Hyland Airport	53.40	340	P		10 21 22.5	+1.2
R32K	comp=Z,53.61 Teslin, Yukon	53.61	334	P		10 21 24.5	+1.7
P32M	comp=Z,53.59 Atlin	53.59	336	P		10 21 27.5	+1.2
P33M	comp=Z,54.13 Teslin, Yukon	54.13	337	P		10 21 27.7	+1.0
S31K	comp=Z,54.16 Pelican	54.16	333	P		10 21 27.9	+1.1
SKAG	comp=Z,54.66 Skagway	54.66	335	P		10 21 31.3	+0.9
PLBC	comp=Z,55.17 Pleasant Camp	55.17	340	Iamb	Iamb	10 21 34.6	+1.1
MMPY	comp=Z,55.17 Sheldon Lake	55.17	340	Iamb	Iamb	10 21 36.4	
MMPY	comp=Z,55.17 Sheldon Lake	55.17	340	P		10 21 35.7	+1.5
WHY	comp=Z,55.21 Whitehorse	55.21	336	P		10 21 35.5	+1.0
FARO	comp=Z,55.64 Faro, Yukon	55.64	338	P		10 21 38.8	+1.3
P30M	comp=Z,55.72 Million Dollar	55.72	335	P		10 21 39.8	+1.2
O30N	comp=Z,55.75 Mendenhall	55.75	336	Iamb	Iamb	10 21 40.3	
O30N	comp=Z,55.75 Mendenhall	55.75	336	P		10 21 39.9	+1.5
P29M	comp=Z,55.76 Windy Craggy	55.76	334	P		10 21 39.6	+1.2
M31M	comp=Z,56.07 Drury Creek, Y	56.07	338	P		10 21 41.3	+1.3
N31M	comp=Z,56.07 Braeburn, Yuko	56.07	337	Iamb	Iamb	10 21 42.8	
N31M	comp=Z,56.07 Braeburn, Yuko	56.07	337	P		10 21 41.9	+1.3
HYT	comp=Z,56.36 Haines Junctio	56.36	336	P		10 21 44.2	+1.5
O29M	comp=Z,56.48 Mount Kennedy	56.48	335	P		10 21 45.2	+1.5
N30M	comp=Z,56.55 Aishik Lake	56.55	336	Iamb	Iamb	10 21 46.2	
N30M	comp=Z,56.55 Aishik Lake	56.55	336	P		10 21 45.5	+1.4
YUK6	comp=Z,56.75 Outpost Mounta	56.75	335	P		10 21 47.0	+1.2
PINM	comp=Z,57.08 Pinnacle	57.08	334	P		10 21 49.4	+1.6
YUK4	comp=Z,57.10 Talbot Arm	57.10	336	P		10 21 49.6	+1.5
MAYO	comp=Z,57.41 Mayo, Yukon	57.41	339	P		10 21 51.4	+1.4
M29M	comp=Z,57.66 Somme Creek	57.66	337	P		10 21 53.5	+1.5
NRS	comp=Z,57.75 Narsarsuaq	57.75	25	P		10 21 50.6	-1.8
MESA	comp=Z,57.84 Mesa	57.84	334	P		10 21 54.6	+1.2
L29M	comp=Z,57.92 L29M	57.92	338	Iamb	Iamb	10 21 55.6	
L29M	comp=Z,57.92 L29M	57.92	338	P		10 21 54.6	+1.0
YUK3	comp=Z,58.06 Moose Creek	58.06	336	P		10 21 55.7	+0.8
K29M	comp=Z,58.14 Barlow Dome	58.14	339	Iamb	Iamb	10 22 06.4	
K29M	comp=Z,58.14 Barlow Dome	58.14	339	P		10 21 56.1	+0.8
J30M	comp=Z,58.17 Hart River	58.17	340	Iamb	Iamb	10 21 57.9	
J30M	comp=Z,58.17 Hart River	58.17	340	P		10 21 56.2	+0.6
H31M	comp=Z,58.32 Peel River	58.32	341	P		10 21 56.9	+0.5
BGLC	comp=Z,58.40 Bering Glacier	58.40	333	P		10 21 57.8	+0.9
BVCY	comp=Z,58.57 Beaver Creek	58.57	336	P		10 21 59.2	+1.0
I30M	comp=Z,58.59 Mount Dempster	58.59	340	Iamb	Iamb	10 21 59.4	
I30M	comp=Z,58.59 Mount Dempster	58.59	340	P		10 21 59.0	+0.5
CRQE	comp=Z,58.62 Cirque	58.62	334	P		10 22 00.2	+1.5
PLCA	comp=Z,58.69 Paso Flores	58.69	160	LR	LR	10 42 36.7	
MCARA	comp=Z,58.91 McCarthy VSAT	58.91	334	P		10 22 02.5	









BUI 24 11:34:06.1,30.28S;176.73W,h15km,mB6.1/73,  
mB5.6/60,M6.1/89,M5.7/87  
MOS 24 11:34:06.7,1.0,30.69S;177.46W,h10km,mB5.9/27,  
M5.6/128,Error ellipse: s-maj=11.0km s-min=7.1km  
az=109.9

NEIC 24 11:34:08.9,30.71S;176.89W,h14km,Moment Tensor  
Solution. Duration: 466 Moment tensor: Scale 10<sup>17</sup>Nm;  
Mn:8.71; M<sub>1</sub>:0.44; M<sub>2</sub>:8.27; M<sub>3</sub>:2.39; M<sub>4</sub>:2.59; M<sub>5</sub>:2.53;  
Fault plane solution: M6.9,54000\*10<sup>17</sup> NP1:  
p2=213.30000°,s2=842.00000°,t2=116.41000°. NP2:  
p2=559.55000°,s2=18000°,t2=68.17000°. Principal axes: T  
9.8315, P1672.0000°, Azm213.0000°, N -0.61000°,  
Plg17.0000°, Azm13.0000°, P -9.2267, Plg6.0000°,  
Azm105.0000°

ISC-PP 24 11:34:08.30.76S;177.35W,h9km,Mwpsm6.6,Moment  
Tensor Solution. s224 Moment tensor: Scale 10<sup>18</sup>Nm;  
Mn:0.09; M<sub>1</sub>:0.49; M<sub>2</sub>:1.4; M<sub>3</sub>:0.61; M<sub>4</sub>:1.5; M<sub>5</sub>:0.14; M<sub>6</sub>:2.1;  
M<sub>7</sub>:0.29; M<sub>8</sub>:1.5; M<sub>9</sub>:0.28; M<sub>10</sub>:1.1; Fault plane solution:  
M6.8,61000\*10<sup>18</sup> NP1:p2=121.60000°,s2=861.50000°,  
t2=3.60000°. NP2:p2=29.90000°,s2=886.80000°,t2=151.40000°

NEIC 24 11:34:08.9,1.8,30.76S;0.06:177.4W,0.1,h10km,1km,  
mB5.9/362,M5.20 6.3/995,Mwv5.9/34 Error ellipse:  
s-maj=16.5km s-min=10.2km az=92.0

NEIC 24 11:34:08.9,1.8,30.76S;177.35W,h14km  
GCMT 24 11:34:11.9,0.1,30.76S;0.01:176.82W,h12km,  
Mw6.0/173,Moment Tensor Solution. s137,c292;  
s173,c450; Duration: 264 Moment tensor: Scale 10<sup>18</sup>  
Nm; Mn:0.82; M<sub>1</sub>:0.01; M<sub>2</sub>:0.04; M<sub>3</sub>:0.78; M<sub>4</sub>:1.0;  
M<sub>5</sub>:0.23; M<sub>6</sub>:0.21; M<sub>7</sub>:0.1; M<sub>8</sub>:0.77; M<sub>9</sub>:0.1; Best double  
couple: M<sub>1</sub>:1.53000\*10<sup>18</sup> NP1:p2=193.00000°,s2=832.00000°,  
t2=7.8700000°. NP2:p2=16.00000°,s2=867.00000°,t2=91.000000°.  
Principal axes: T 1.1460, Plg68.0000°, Azm289.0000°; N  
0.0140, Plg1.0000°, Azm196.0000°; P -1.1590,  
Plg22.0000°, Azm105.0000°; nsta1 refers to body waves,  
cutoff=50s. nsta2 refers to surface/mantle waves,  
cutoff=50s. Triaxial moment-rate function

NOU 24 11:34:14.1,31.43S;176.98W,h72km,ML5.9/90,  
Kermadec Islands Region

ISC 24 11:34:08.0,0.4,30.78S;0.03:177.26W,0.03,h15km,1km,  
h15km;p-P,1N1338,c28111/971,mB5.8/259,M5.3/573,  
49C-35D,Kermadec Islands

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
GLKZ	Green Lake	1.62	339	Op	11 34 34.0	-2.0
GLKZ	Green Lake	1.62	339	Pn	11 34 34.0	-0.5
GLKZ	Green Lake	1.62	339	S	11 34 34.0	-0.5
RAO	Raoul Island	1.63	339	Pn	11 34 35.1	-1.0
RAO	Raoul Island	1.63	339	Pn	11 34 34.8	-1.4
RAO	Raoul Island	1.63	339	Sn	11 34 56.1	-0.8
RIZ	Raoul Island	1.64	339	P	11 34 34.8	-1.5
RIZ	Raoul Island	1.64	339	Sg	11 34 59.2	-1.7
MXZ	Matakaoa Point	7.70	207	Pn	11 35 57.0	-1.8
MXZ	Matakaoa Point	7.70	207	Pn	11 35 55.2	-3.2
MXZ	Matakaoa Point	7.70	207	Sn	11 37 22.9	-3.4
WMGZ	Waionatani S	7.88	206	P	11 35 57.0	-5.0
PKGZ	Pakihiroa	8.05	207	Pn	11 36 00.5	-3.8
HAZ	Te Kaha	8.07	209	Pn	11 36 01.3	-3.4
HAZ	Te Kaha	8.07	209	Sn	11 37 34.0	-1.6
HAZ	Te Kaha	8.07	209	Pn	11 36 00.8	-5.0
PUZ	Puketiti	8.16	206	S	11 37 33.3	-4.5
GRZ	Great Barrier	8.17	226	P	11 36 08.1	+2.1
RUGZ	Raukumara Rang	8.30	209	Pn	11 36 04.3	-3.6
RUGZ	Raukumara Rang	8.30	209	Sn	11 37 38.8	-2.5
KUZ	Kuaitunu	8.34	223	Pn	11 36 09.9	+1.6
TKWZ	Tauwhareparae	8.38	207	P	11 36 19.2	-5.8
TKWZ	Tauwhareparae	8.38	207	S	11 37 07.0	-2.0
CNGZ	Carnagh Statio	8.54	205	P	11 36 06.7	-4.4
CNGZ	Carnagh Statio	8.54	205	S	11 37 45.6	-1.6
TKGZ	Te Karaka	8.63	207	P	11 36 07.5	-4.9
TKGZ	Te Karaka	8.63	207	Pn	11 36 07.5	-4.9
TKGZ	Te Karaka	8.63	207	Sn	11 37 18.1	+0.9
MWZ	Matawai	8.67	208	P	11 36 07.4	-5.5
MWZ	Matawai	8.67	208	S	11 37 46.3	-4.1
WCZ	Waipu Caves	8.70	232	P	11 36 17.2	+3.9
OPRZ	Ohinepanea	8.70	214	S	11 36 09.5	-3.8
OPRZ	Ohinepanea	8.70	214	Sn	11 37 49.8	-1.3
URZ	Urewera	8.79	210	Pn	11 36 09.4	-5.0
URZ	Urewera	8.79	210	Sn	11 37 48.4	-4.7
URZ	Urewera	8.79	210	Pn	11 36 11.7	-2.7
URZ	Urewera	8.79	210	Pn	11 36 09.3	-5.1
URZ	Urewera	8.79	210	Sn	11 37 48.4	-4.7
RAGZ	Rawiri	8.86	208	Pn	11 36 09.2	-5.2
RAGZ	Rawiri	8.86	208	Pn	11 36 09.8	-5.7
RAGZ	Rawiri	8.86	208	S	11 37 51.8	-3.3
OUZ	Omahuta	8.86	238	Pn	11 36 19.4	+3.9
OUZ	Omahuta	8.86	238	Pn	11 36 19.7	+4.4
RIGZ	Rimuhau	9.08	206	Pn	11 36 10.8	-5.3
RIGZ	Rimuhau	9.08	206	S	11 37 52.4	-3.7
MKAZ	Moumakai	8.91	223	P	11 36 18.1	+2.0
PRGZ	Paritu Road	9.05	205	Pn	11 36 13.3	-4.8
MUGZ	Murupara	9.15	212	P	11 36 12.5	-3.5
MUGZ	Shannon Statio	9.13	208	P	11 36 14.7	-4.5
RTZ	Ruatahuna	9.14	210	Pn	11 36 14.6	-4.8
TOZ	Tahuroa Road	9.16	219	Pn	11 36 19.5	-0.1
TOZ	Tahuroa Road	9.16	219	P	11 36 19.1	-0.5
RAHZ	Plateau Road	9.20	212	Pn	11 36 18.0	-3.5
RAHZ	Plateau Road	9.20	212	Pn	11 36 18.4	-3.9
MTHZ	Maungataniwha	9.40	209	Pn	11 36 18.1	-4.7
NMHZ	Naumai	9.62	209	Pn	11 36 22.3	-3.6
BKZ	Black Stump Fm	9.81	210	Pn	11 36 26.2	-2.3
BKZ	Black Stump Fm	9.81	210	S	11 36 11.8	-6.7
BKZ	Black Stump Fm	9.81	210	Pn	11 36 21.9	-6.9
MCHZ	McNeill Hill	9.96	208	Pn	11 36 26.4	-4.1
HIZ	Hauti	10.08	218	Pn	11 36 29.9	-2.3
HIZ	Hauti	10.08	218	P	11 36 31.3	-0.8
HIZ	Hauti	10.08	218	Pn	11 36 31.3	-0.8
KAHZ	Kahuranaki	10.19	206	Pn	11 36 27.2	-6.4
KAHZ	Kahuranaki	10.19	206	Pn	11 37 18.7	+0.8
CTZ	Chatham Island	12.94	178	Pn	11 37 08.3	-2.9
CTZ	Chatham Island	12.94	178	S	11 39 19.4	-1.5
CTZ	Chatham Island	12.94	178	P	11 37 07.9	-3.3
NFKZ	Norfolk Island	12.96	274	Pn	11 37 17.4	+5.7
QRZ	Quartz Range	12.99	217	Pn	11 37 10.4	-1.6
MRNZ	Mistaki Terra	13.28	318	Pn	11 37 42.0	+5.8
MSVF	Nonsavu	13.68	341	Pn	11 37 21.9	+0.4
MSVF	Nonsavu	13.68	341	LR	11 41 15.3	
MSVF	Nonsavu	13.68	341	Pn	11 37 21.9	+0.4
MSVF	Nonsavu	13.68	341	Pn	11 37 20.4	-1.9
KHZ	Kahutara	13.75	210	S	11 39 43.7	-1.1
KHZ	Kahutara	13.75	210	Sn	11 37 15.6	-6.7
TAVE	Taveuni	14.22	310	P	11 37 41.4	+5.2
LTZ	Lake Taylor	14.26	252	Pn	11 37 27.7	-6.4
DOTI	Doonaki	14.58	349	Pn	11 37 47.0	+5.7
RPZ	Rata Peaks	15.89	212	Pn	11 37 43.6	-7.5
RPZ	Rata Peaks	15.89	212	Sn	11 40 30.6	-1.6
RPZ	Rata Peaks	15.89	212	S	11 37 49.1	-1.9
PINNC	Pines Island	15.90	297	Pn	11 37 52.2	+1.0
PINNC	Pines Island	15.90	297	P	11 38 00.0	+5.2
MARNC	Mare, Loyalty	16.12	302	P	11 38 02.9	+5.5
FOZ	Fox Glacier	16.35	215	Pn	11 37 54.8	-2.0
OUENC	Ouen Island, N	16.47	235	Pn	11 38 05.6	+4.4
YATNC	Yatapu	16.88	296	Pn	11 38 08.6	+5.3
LBZ	Lake Benmore	16.81	213	Pn	11 38 00.8	-1.9
ONTNC	Ouen Toro	16.83	296	P	11 38 05.2	0.0
ONTNC	Ouen Toro	16.83	296	P	11 38 10.8	+5.6
ONTNC	Ouen Toro	16.83	296	Sn	11 38 05.6	+0.4
DZM	Mont Dzumac	16.97	297	ePn	11 38 07.0	+0.1
DZM	Mont Dzumac	16.97	297	LR	11 41 56.4	
DZM	Mont Dzumac	16.97	297	Pn	11 38 09.0	+2.2
DZM	Mont Dzumac	16.97	297	LR	11 43 38.9	
DZM	Mont Dzumac	16.97	297	P	11 38 10.8	+3.9
DZM	Mont Dzumac	16.97	297	Sn	11 38 09.1	+2.2
ODZ	Otaua Downs	17.11	210	Pn	11 38 02.7	-1.8
ODZ	Otaua Downs	17.11	210	P	11 38 02.2	-4.3
ODZ	Otaua Downs	17.11	210	Sn	11 38 01.1	-5.4
JCZ	Jackson Bay	17.25	216	Pn	11 38 04.5	-3.9
AFI	Afiatapu	17.54	18	P	11 38 21.8	+8.7

RAR	Rarotonga	18.36	63	P	Pn	11 38 19.1	-2.9
RAR	Rarotonga	18.36	63	P	Pn	11 38 16.4	-5.6
RAR	Rarotonga	18.36	63	S	Sn	11 41 20.7	-2.6
RAR	Rarotonga	18.36	63	LR	LR	11 44 40.9	
RAR	Rarotonga	18.36	63	P	P	11 38 22.9	+0.8
RAR	Rarotonga	18.36	63	P	P	11 38 19.2	-2.9
SYZ	Scrubby Hill	18.94	210	P	P	11 38 24.9	-3.4
WHZ	Wether Hill Ro	18.98	213	P	Pn	11 38 26.5	-2.3
DCZ	Deep Cove	19.06	215	P	Pn	11 38 33.7	+3.2
KOUNC	Koumuc, New Ca	19.48	297	P	Pn	11 38 40.4	+4.7
KOUNC	Koumuc, New Ca	19.48	297	Sn	Sn	11 38 37.5	+1.8
VLAKA	Lakatoro	20.24	313	P	Pn	11 38 49.4	+4.7
LHL	Lord Howe Isla	20.28	262	P	P	11 38 42.4	-0.7
LHL	Lord Howe Isla	20.28	262	Pn	Pn	11 38 45.9	+0.9
SANVU	Saracoutou	20.87	314	P	Pn	11 38 49.7	+0.1
SANVU	Saracoutou	20.87	314	P	Pn	11 38 58.0	+5.9
FUNA	Funafuti	22.39	351	IAMS_20	IAMS_20	11 46 40.2	
TBI	Tubuai	25.79	80	eP	S	11 39 27.7	-1.1
TBI	Tubuai	25.79	80	eP	S	11 44 09.5	+2.2
TBI	Tubuai	25.79	80	eLR	LR	11 45 57.5	
TBI	Tubuai	25.79	80	eLR	LR	11 46 07.6	
ARMA	Armidale	26.75	263	P	P	11 39 47.3	+0.1
ARMA	Armidale	26.75	263	P	P	11 39 47.1	-0.1
ARMA	Armidale	26.75	263	P	P	11 39 49.1	+1.9
ARMA	Armidale	26.75	263	P	P	11 39 50.1	+2.9
MGCSD	Mangrove Creek	26.89	256	P	P	11 39 51.4	+3.0
CNB	Canberra Magne	28.26	252	P	P	11 39 58.3	-2.4
CNB	Canberra Magne	28.26	252	P	P	11 40 01.5	+0.8
PAE	Pae	28.33	69	eP	S	11 39 54.7	-6.6
PAE	Pae	28.33	69	eS	S	11 44 48.1	+0.7









XL	comp=Z,3um,23.8s	LR	LR						
735A	Kenedy	96.10	60	IAMS_20	IAMS_20	12 23 14.5			
O28M	Mount Upton	96.12	17	IAMS_20	IAMS_20	12 25 29.0			
YHB	Horse Butte	96.23	41	Iamb	Iamb	11 47 39.2			
YFT	Old Faithful	96.25	41	Iamb	Iamb	11 47 40.0			
YHL	Hebgen Lake	96.30	41	Iamb	Iamb	11 47 40.5			
YHL	comp=Z,7um,20.0s	IAMS_20	IAMS_20			12 24 32.0			
H17A	Grant Village	96.36	41	IAMS_20	IAMS_20	12 24 25.8			
H17K	Granite Mounta	96.36	7	IAMS_20	IAMS_20	12 34 25.4			
Q24A	Divide	96.48	48	IAMS_20	IAMS_20	12 29 01.1			
YNM	Yellowstone No	96.49	41	IAMS_20	IAMS_20	12 24 30.2			
SEY	comp=Z,9um,18.0s	96.50	347	P	P	11 47 35.1 -1.0			
SEY	Seymchan	comp=Z,2.2nm,0.8s,baz=162,slow=1.6,SNR=11	LR	SKSac	SKSac	11 58 13.6 +1.8			
SEY	comp=Z,0.2nm,0.3s,baz=90,slow=2.0,SNR=1.8	LR	LR			12 30 11.4			
SEY	comp=Z,5um,18.4s,baz=156,slow=3.5	96.50	347	eP	P	11 47 35.9 -0.2			
SEY	Seymchan	comp=Z,2.2nm,0.8s	MLR	MLR					
SEY	comp=Z,8.0nm,1.4s								
YNR	Norris Junction	96.50	41	IAMS_20	IAMS_20	12 24 19.4			
BOZ	Bozeman (W)	96.50	40	Iamb	Iamb	11 47 40.8			
BOZ	IAMS_20	IAMS_20				12 33 08.5			
AMTX	Amarillo	96.53	53	IAMS_20	IAMS_20	12 27 17.5			
DHY	Denali Highway	96.53	13	IAMS_20	IAMS_20	12 34 07.2			
RND	Reindeer	96.55	12	IAMS_20	IAMS_20	12 27 27.6			
CRIN	San Cristobal	96.56	79	IAMS_20	IAMS_20	12 23 30.3			
G16K	Koyuk River	96.56	6	IAMS_20	IAMS_20	12 30 59.0			
F15K	North Star Dit	96.67	5	IAMS_20	IAMS_20	12 33 02.5			
HERN	Volcan Telica	96.70	79	IAMS_20	IAMS_20	12 23 37.4			
ABTX	Ablene, Hawle	96.75	56	IAMS_20	IAMS_20	12 24 33.5			
H18K	Honhosa River	96.75	8	IAMS_20	IAMS_20	12 32 14.7			
BPAW	Bear Paw Mtn	96.81	11	IAMS_20	IAMS_20	12 31 52.5			
MCK	McKinley	96.83	12	IAMS_20	IAMS_20	12 27 46.1			
CD2	Chengdu	96.83	302	P	P	11 47 38.8 +0.3			
CD2	comp=Z,920nm,7.8s								
CD2	comp=Z,3um,17.3s	LR	LR						
M26K	Nabesna, AK	96.86	15	IAMS_20	IAMS_20	12 33 31.9			
ZE	Zeya	96.89	330	eP	P	11 47 39.0 +0.9			
ZE	e					11 58 17.0			
ZE	eS					11 59 03.2 +3.7			
ZE	eSP					12 00 22.6 +2.0			
ZE	ePS					12 00 26.3 +3.4			
ZE	e					12 05 38.6			
ZE	comp=Z,10.0nm,1.4s								
ZE	comp=Z,300nm,8.8s								
ZE	comp=Z,400nm,7.7s								
ZE	comp=E,1um,12.4s								
ZE	comp=N,2um,14.8s								
HHC	Hu-ho-hao-te	96.96	314	eP	P	11 47 40.8 +1.9			
HHC	PP					11 51 30.8 -4.2			
HHC	SKS					11 58 16.9 +1.4			
HHC	S					11 59 04.0 +2.6			
HHC	SS					11 59 12.4 +6.2			
HHC	comp=N,12nm,0.7s								
HHC	comp=N,560nm,8.4s								
HHC	comp=N,2um,17.1s								
HHC	comp=N,2um,18.0s								
HHC	comp=N,2um,17.3s								
TGUH	Teguicigalpa,Un	97.05	78	IAMS_20	IAMS_20	12 22 05.5			
YNE	Yellowstone No	97.06	41	Iamb	Iamb	11 47 43.6			
M27K	Edge Creek, AK	97.08	16	IAMS_20	IAMS_20	12 33 35.8			
JTS	Las Juntas de	97.15	82	IAMS_20	IAMS_20	12 23 39.1			
JTS	Las Juntas de	97.15	82	LR	LR	12 24 08.9			
DLBC	Dease Lake	97.22	23	LR	LR	12 22 57.9			
L26K	Log Cabin Wild	97.33	15	IAMS_20	IAMS_20	12 33 49.7			
H19K	Roundabout Mou	97.35	9	IAMS_20	IAMS_20	12 30 11.9			
LPZA	La Paz	97.40	114	Iamb	Iamb	11 47 45.1			
LPZA	comp=Z,37nm,1.8s	97.40	114	P	P	11 47 42.5 +0.3			
LPZA	comp=Z,2.2nm,0.7s,baz=266,slow=2.2,SNR=10					11 58 21.8 +1.7			
LPZA	comp=Z,1.1nm,1.0s,baz=162,slow=9.6,SNR=2.1					12 25 17.9			
K24K	Donnelly Dome	97.50	14	IAMS_20	IAMS_20	12 34 47.3			
RLMT	Red Lodge	97.55	41	IAMS_20	IAMS_20	12 25 03.1			
RIDG	Independent Ri	97.64	14	IAMS_20	IAMS_20	12 34 40.5			
WRH	Wood River Hill	97.66	12	IAMS_20	IAMS_20	12 32 54.0			
OTAV	Otavallo	97.69	94	IAMS_20	IAMS_20	12 25 18.9			
L27K	Beaver Creek	97.70	15	IAMS_20	IAMS_20	12 27 05.2			
MLY	Manley	97.72	11	IAMS_20	IAMS_20	12 32 40.3			
K22A	Casper	97.72	45	Iamb	Iamb	11 47 45.6			
DOT	Dot Lake	97.72	14	IAMS_20	IAMS_20	12 34 11.6			
BTO	Baotou	97.79	313	eP	P	11 47 46.3 +3.6			
BTO	S					11 59 12.3 +4.4			
BTO	SS					12 05 52.6 +2.9			
BTO	comp=Z,18nm,0.5s								
BTO	comp=Z,1um,6.4s								
BTO	comp=Z,1um,11.2s								
BTO	comp=Z,4um,19.0s								
BTO	comp=Z,5um,20.6s								
TNCH	TengChong	97.80	294	eP	P	11 47 43.1 -0.1			
TNCH	PP					11 51 41.0 -0.8			
TNCH	SKS					11 58 22.3 +1.6			
TNCH	SKSac					11 59 09.6 +0.6			
TNCH	S								
TNCH	comp=Z,26nm,0.5s								
TNCH	comp=Z,370nm,5.1s								

TNCH	comp=Z,650nm,17.6s	LR	LR						
TNCH	comp=Z,1um,16.8s	LR	LR						
CCB	Clear Creek Bu	97.87	12	P	P	11 47 43.5 +1.2			
CCB	comp=Z,9um,20.0s	IAMS_20	IAMS_20			12 32 59.6			
M29M	Sommit Creek	97.98	17	IAMS_20	IAMS_20	12 26 40.1			
SCRK	Sand Creek	98.03	14	IAMS_20	IAMS_20	12 34 32.1			
COLA	College	98.07	12	IAMS_20	IAMS_20	12 33 14.8			
COLA	College	98.07	12	eP	P	11 47 44.5 +1.3			
COLA	College	98.07	12	P	P	11 47 45.0 +1.8			
HCT	comp=Z,4.0nm,0.9s								
ILAR	Eielsen Array	98.16	13	P	P	11 47 42.5 -1.1			
ILAR	comp=Z,1.1nm,0.9s,baz=228,slow=5.5,SNR=5.7					12 04 14.6 -3.6			
ILAR	comp=Z,0.6nm,1.0s,baz=343,slow=1.4,SNR=9.4					12 28 05.5			
J25K	Hockey	98.31	13	IAMS_20	IAMS_20	12 35 21.5			
FW14	Alvarado	98.39	57	IAMS_20	IAMS_20	12 25 20.1			
WMOK	Wichita Mounta	98.47	55	IAMS_20	IAMS_20	12 25 55.1			
K27K	Chicken	98.48	15	IAMS_20	IAMS_20	12 34 44.3			
L29M	L29M	98.63	17	IAMS_20	IAMS_20	12 34 14.1			
E18K	Tukpahleark C	98.71	6	IAMS_20	IAMS_20	12 32 06.3			
M31M	Drury Creek, Y	98.87	19	IAMS_20	IAMS_20	12 37 15.6			
EGMT	Eagleton	99.00	39	Iamb	Iamb	11 51 51.3			
RDOC	Red Dog Mine	99.12	5	IAMS_20	IAMS_20	12 30 44.2			
DAWY	Dawson	99.13	16	IAMS_20	IAMS_20	12 34 20.3			
C16K	Lisburne Hills	99.16	4	IAMS_20	IAMS_20	12 28 30.1			
CPUP	comp=Z,8um,18.0s	99.24	128	P	P	11 47 51.9 +2.3			
CPUP	comp=Z,0.8nm,0.6s,baz=236,slow=8.7,SNR=5.6					11 58 27.9 0.0			
CPUP	comp=Z,0.1nm,0.3s,baz=153,slow=4.5,SNR=1.5					12 27 03.7			
BILL	Bilibino	99.29	354	IAMS_20	IAMS_20	12 34 40.5			
BILL	Bilibino	99.29	354	eP	P	11 47 48.9 +0.3			
BILL	comp=Z,5.0nm,1.3s								
I26K	comp=Z,8um,18.0s	99.37	14	IAMS_20	IAMS_20	12 35 44.6			
G23K	Bananza Creek	99.38	11	IAMS_20	IAMS_20	12 33 25.8			
K29M	Barlow Dome	99.39	17	IAMS_20	IAMS_20	12 34 28.4			
LZH	Lanzhou	99.47	306	eP	P	11 47 51.5 +1.1			
LZH	Kuna River					11 47 56.3 +1.8			
LZH	comp=Z,480nm,4.4s					11 58 28.0 -0.5			
LZH	comp=Z,1um,19.7s					11 59 22.9 +0.3			
LZH	comp=Z,3um,19.7s								
MAYO	Mayo, Yukon	99.60	17	IAMS_20	IAMS_20	12 27 28.8			
FNO	Franklin	99.71	55	IAMS_20	IAMS_20	12 26 27.7			
J29N	Klondike Camp	99.73	16	IAMS_20	IAMS_20	12 34 40.3			
G24K	DeWenzic Riv	99.80	12	IAMS_20	IAMS_20	12 36 42.7			
C18K	Utukok River	99.85	6	IAMS_20	IAMS_20	12 35 04.4			
NATX	Nacogdoches	99.92	59	IAMS_20	IAMS_20	12 26 02.5			
CROK	Carrier	99.94	53	IAMS_20	IAMS_20	12 29 35.8			
D19K	Kuna River	100.0	7	IAMS_20	IAMS_20	12 36 32.8			
FYU	Fort Yukon	100.08	12	IAMS_20	IAMS_20	12 34 27.2			
I28M	Miner Creek	100.18	15	IAMS_20	IAMS_20	12 35 37.0			
R32A	Long Quarter,	100.42	52	IAMS_20	IAMS_20	12 33 23.6			
E21K	Kilik River	100.43	9	IAMS_20	IAMS_20	12 38 51.4			
E22K	Anaktuvuk Pass	100.43	9	IAMS_20	IAMS_20	12 37 37.5			
C19K	Lookout Ridge	100.44	6	IAMS_20	IAMS_20	12 35 14.1			
I29M	Ogilvie Camp	100.47	16	IAMS_20	IAMS_20	12 35 15.9			
H27K	Steamboat Moun	100.51	14	IAMS_20	IAMS_20	12 36 02.7			
441A	DeFider	100.52	61	IAMS_20	IAMS_20	12 28 42.3			
QUOK	Quay	100.56	54	IAMS_20	IAMS_20	12 29 34.8			
E23K	Chandalar	100.69	10	IAMS_20	IAMS_20	12 34 36.2			
G26K	Porcupine Rive	100.69	13	IAMS_20	IAMS_20	12 36 57.4			
I30M	Mount Dempster	100.81	16	IAMS_20	IAMS_20	12 28 40.9			
F25K	Christian River	100.92	12	IAMS_20	IAMS_20	12 35 13.4			
BCIP	Isla Barro Col	100.97	86	IAMS_20	IAMS_20	12 25 14.3			
G27K	Doyon Strip	100.98	14	IAMS_20	IAMS_20	12 31 38.2			
D22K	Aiyikyak River	101.01	9	IAMS_20	IAMS_20	12 34 50.7			
T35A	Sooner Cattle	101.16	54	IAMS_20	IAMS_20	12 30 24.3			
TUL3	Leonard	101.17	55	IAMS_20	IAMS_20	12 31 49.4			
H29M	Whitestoe	101.18	15	IAMS_20	IAMS_20	12 35 58.5			
F26K									

24d 11h

Table with columns for call sign, name, frequency, power, and other technical details. Includes entries like 551A Beattyville, 551B Hyb, 551C Hyb, etc.

2019 JUN

Table with columns for call sign, name, frequency, power, and other technical details. Includes entries like AAA Alma-Ata, AAA Alma-Ata, AAA Alma-Ata, etc.

1516

Table with columns for call sign, name, frequency, power, and other technical details. Includes entries like OBN comp=Z,4um,19.0s, OBN Obninsk, OBN Obninsk, etc.







24d 13h

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like NADN Granada, JAUUV Jalcomulco, PPM Pucacatepetl, etc.

NEIC 24 13:04:01.6:1.6, 6:51S:0.02x129:12E:0.10, h221km,9km, mb4.1/8, Error ellipse: s-maj=14.0km s-min=3.6km az=89.0

IDC 24 13:04:03.5:3.2, 6:63S:129:00E, h237km,25km, mb3.2/2, mbtmp3.8/6, Error ellipse: s-maj=35.1km s-min=18.5km az=61.0

ISC 24 13:04:01.3:0.6, 6:63S:0:06:129:15E:0:08, h221km, n25, +1560/29, mb3.8/5, Banda Sea

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like SAUI Saumlaki, FAKI Fak Fak, SGEI Sot, etc.

INMG 24 13:09:06.0:7.2, 6:575N:18:05W, h10km, M4.6, mb4.7, #DIST\_RANGE: DISTANT

REY 24 13:09:07.6, 64:66N:17:59W, h2km IDC 24 13:09:09.2:0.6, 64:66N:17:48W, h0km, mb4.0/1.8, mbtmp4.0/21, ML4.4/2, MS4.7/1, Error ellipse: s-maj=20.0km s-min=11.5km az=14.0

NEIC 24 13:09:09.9:2.1, 64:67N:0:09:17:8W:0:2, h9km, 5km, mb4.5/102, Error ellipse: s-maj=13.6km s-min=10.1km az=139.0

ISC 24 13:09:09.8:0.4, 64:67N:0:02:17:50W:0:02, h10km, n328, +2516/305, mb4.4/8.0, 1C-3D, Iceland

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like IKIS Kista, IVON Vonarskard, IDYN Dyngjuhals, etc.

2019 JUN

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like IGLI Gilhagi, BORG Borgarnes, BORG Borgarnes, etc.

1520

Main station list table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like E29M Blow River, E28M Babbage River, F30M Barrier River, etc.



Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes stations like J26L Joseph Creek, H23K Yukon River, TOAD Toad River Com, etc.

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes stations like KKAR Karatay Array, YNE Yellowstone No, N17K Nushagak Hills, etc.

Table with columns: Code, Station Name, Az, El, P, S, Phase ID, Time, Res. Includes stations like COPN Copaltepe, NANN Nandasmo, etc.

Table with columns: Code, Station Name, Az, El, P, S, Phase ID, Time, Res. Includes stations like KMI Kunming, PZH PanZhihua, etc.

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S. Includes stations like CD2, CD2, CD2, etc.



Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like D22K Ayikyak River, L16K Owhat River, GCSA Galena City Sc, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like SKT Skwentna, COLA College, D27M Malakof River, etc.

Table with columns: Station ID, Name, Azimuth, Elevation, SNR, and other parameters. Includes stations like H31M Peel River, H31M Peel River, J30M Harrier, etc.

IDC 24 13:32:29.9, 0.9, 30.789S, 178.05W, h0km, mb3.9/5, mbmp3.9/6, ML3.3/1, Error ellipse: s-maj=29.6km s-min=17.7km az=97.0

NEIC 24 13:32:35.9, 0.5, 30.775S, 178.05W, 0.2, h42km, 9km, mb4.5/7, Error ellipse: s-maj=23.0km s-min=16.5km az=100.0

ISC 24 13:32:35.6, 0.8, 30.685S, 0.08, 178.1W, 0.2, h46km, n27, 1514/23, mb4.2/7, Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Elevation, SNR, Time, Res, and other parameters. Includes stations like RAO Raoul Island, RAO Raoul Island, RAO Raoul Island, etc.

IDC 24 13:35:12.9, 2.4, 20.895S, 178.11W, h575km, 25km, mb2.7/4, mbmp3.8/7, Error ellipse: s-maj=31.6km s-min=28.8km az=96.0

NEIC 24 13:35:12.3, 2.8, 20.95S, 0.2, 178.3W, 0.2, h571km, 12km, mb4.2/9, Error ellipse: s-maj=28.6km s-min=20.8km az=112.0

ISC 24 13:35:12.3, 0.8, 20.95S, 0.1, 178.3W, 0.1, h579km, n22,

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Nonsavu, Warramunga Arr, South Pole Qui, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Raoul Island, Urewera, Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Warramunga Arr, W80, W89, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Alice Springs, Warramunga Arr, W80, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Borovoye Array, Sushita One, Eielson Array, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Kista, Dyngjuhals, Vonarskard, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Warramunga Arr, W80, W89, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Alice Springs, Warramunga Arr, W80, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Berggiesshubel, Black Forest, Paberze, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Vranov, Vranov, Vranov, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Uruvao, Uruvao, Uruvao, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Warramunga Arr, W80, W89, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Alice Springs, Warramunga Arr, W80, etc.

C21K	Knifeblade Rid	43.16 339	P	P	14 04 01.5 +2.2
BVAR	Borovoye Array	43.62 62	P	P	14 04 01.2 +1.7
G26K	Porcupine Rive	43.18 332	P	P	14 04 00.9 +1.3
E23K	Chandalar	43.30 336	P	P	14 04 01.9 +1.3
H27K	Steamboat Moun	43.34 331	P	P	14 04 02.3 +1.4
I29M	Ogilvie Camp,	43.38 328	P	P	14 04 02.2 +1.0
F24K	Squaw Lake	43.47 335	P	P	14 04 03.2 +1.3
J30M	Hart River	43.59 327	P	P	14 04 04.9 +1.9
E22K	Anaktuvuk Pass	43.61 337	P	P	14 04 04.6 +1.6
I28M	Miner Creek	43.67 329	P	P	14 04 04.9 +1.3
E21K	Killik River	43.68 338	P	P	14 04 05.8 +2.2
G25K	Bearman Lake	43.80 333	P	P	14 04 06.8 +2.4
D20K	Eivuk River	43.84 340	P	P	14 04 07.2 +2.4
C19K	Lookout Ridge	43.90 342	P	P	14 04 07.2 +1.8
I27K	Kandik River	43.90 330	P	P	14 04 07.1 +1.7
MMPY	Sheldon Lake,	43.96 322	P	P	14 04 07.4 +1.5
G24K	Hadweenicz Riv	44.12 334	P	P	14 04 09.3 +2.2
COLD	Coltfoot	44.14 336	P	P	14 04 09.3 +2.0
H25L	Birch Creek	44.18 333	P	P	14 04 09.9 +2.3
E20K	Nigu River	44.19 339	P	P	14 04 09.9 +2.2
D19K	Kuna River	44.26 340	P	P	14 04 10.0 +1.8
I26K	Coal Creek Min	44.48 331	P	I Amb	14 04 11.6 +1.6 14 04 15.2
I26K	Coal Creek Min	44.48 331	P	P	14 04 11.7 +1.7
K29M	Barlow Dome	44.49 327	P	P	14 04 11.8 +1.5
C18K	Utukok River	44.54 342	P	P	14 04 12.3 +1.8
G23K	Bananza Creek	44.57 335	P	P	14 04 12.8 +2.0
G22K	Bettles	44.65 336	P	P	14 04 13.3 +2.0
F21K	Alatina River	44.71 337	P	P	14 04 14.4 +2.6
DAWY	Dawson	44.73 328	P	I Amb	14 04 13.7 +1.6 14 04 16.3
DAWY	Dawson	44.73 328	P	P	14 04 14.6 +2.5
PRP	Porcupine Dome	44.78 332	P	P	14 04 14.8 +2.2
FARO	Faro, Yukon	44.82 323	P	P	14 04 14.6 +1.8
H24K	Noodor Dome	44.96 334	P	P	14 04 15.7 +1.8
C17K	Delong Mountai	44.96 343	P	P	14 04 16.1 +2.3
E19K	Redstone River	45.09 339	P	P	14 04 17.3 +2.5
M31M	Drury Creek, Y	45.11 324	P	P	14 04 17.3 +2.1
F20K	Avarant Lake	45.23 338	P	P	14 04 18.4 +2.4
L29M	L29M	45.26 327	P	P	14 04 18.6 +2.3
J26L	Joseph Creek	45.27 331	P	P	14 04 18.6 +2.2
H23K	Yukon River	45.28 335	P	P	14 04 19.7 +3.3
G21K	Allakaket	45.36 337	P	P	14 04 19.4 +2.4
K27K	Chicken	45.36 329	P	P	14 04 19.2 +2.2
C16K	Lisburne Hills	45.41 344	P	P	14 04 19.9 +2.5
J25K	Salcha River,	45.55 332	P	I Amb	14 04 20.1 +1.5 14 04 23.9
J25K	Salcha River,	45.55 332	P	P	14 04 20.9 +2.4
H25K	Ishlaltina Cre	45.55 336	P	P	14 04 21.0 +2.4
D17K	Noatak River	45.68 343	P	P	14 04 21.1 +1.7
ILAR	Eielson Array	45.72 332	P	P	14 04 21.1 +1.2
ILAR	Eielson Array	45.72 332	P	PcP	14 05 58.6 +1.2
F19K	Shalrueck Mo	45.74 339	P	P	14 04 22.1 +2.1
COLA	College	45.81 333	P	P	14 04 22.4 +1.9
SCRK	Sand Creek	45.82 330	P	P	14 04 22.2 +1.4
I23K	Minto, Yukon-K	45.85 334	P	P	14 04 23.2 +2.3
IMAR	Indian Mountai	45.88 337	P	P	14 04 22.8 +1.6
M29M	Somme Creek	45.91 326	P	P	14 04 23.7 +2.2
H21K	Melozitna Rive	46.02 336	P	P	14 04 25.4 +3.1
HDA	Harding Lake	46.05 332	P	P	14 04 24.6 +2.1
N31M	Braeburn, Yuko	46.07 324	P	P	14 04 24.4 +1.7
E17K	Hotham Inlet	46.10 342	P	P	14 04 25.1 +2.3
BCAR	Beaver Creek A	46.14 329	P	P	14 04 23.4 +0.2
L27K	Beaver Creek,	46.15 329	P	P	14 04 25.2 +1.9
RIDG	Independent Ri	46.21 331	P	P	14 04 25.6 +1.8
MLY	Manley	46.22 335	P	I Amb	14 04 25.4 +1.5 14 04 28.6
MLY	Manley	46.22 335	P	P	14 04 26.3 +2.5
F18K	Selawik	46.24 340	P	P	14 04 26.3 +2.4
G19K	Purcell Mounta	46.28 339	P	P	14 04 26.7 +2.4
NEA2	Nenana	46.30 334	P	P	14 04 26.7 +2.3
I21K	Tanana	46.31 335	P	P	14 04 26.9 +2.5
K24K	Donnelly Dome	46.35 331	P	P	14 04 26.8 +2.0
P33M	Teslin, Yukon	46.38 321	P	P	14 04 27.0 +1.8
N30M	Aishik Lake	46.42 325	P	P	14 04 27.7 +2.2
H20K	Anoteneega Mo	46.52 337	P	P	14 04 29.3 +3.1
WHY	Whithorse	46.55 323	P	P	14 04 28.6 +2.0
R33M	Jennings River	46.57 320	P	I Amb	14 04 31.4
R33M	Jennings River	46.57 320	P	P	14 04 28.1 +1.3
H19K	Roundabout Mou	46.75 338	P	P	14 04 30.2 +2.3
G18K	Taggavay	46.75 339	P	P	14 04 30.6 +2.6
O30N	Mendenhall	46.76 324	P	P	14 04 29.9 +1.8
YUK4	Talbot Arm	46.90 326	P	P	14 04 30.7 +1.3
YUK3	Moose Creek	46.96 327	P	P	14 04 32.0 +2.1
M26K	Nabesna, AK	46.99 329	I Amb	I Amb	14 04 35.7

M26K	Nabesna, AK	46.99 329	P	P	14 04 32.6 +2.7
PAX	Baxson	47.02 331	P	P	14 04 32.5 +2.2
MCK	McKinley	47.05 333	P	P	14 04 32.9 +2.6
HYT	Haines Junctio	47.07 325	P	P	14 04 32.5 +1.8
I20K	Naaghedeneel	47.10 337	P	P	14 04 33.1 +2.5
BPAW	Bear Paw Mtn.	47.11 334	P	P	14 04 33.1 +2.3
P32M	Atlin	47.15 322	P	P	14 04 34.2 +3.0
Q32M	Nakina River	47.30 320	P	P	14 04 34.5 +1.9
DHY	Denali Highway	47.33 332	P	P	14 04 34.7 +2.0
H18K	Honhosa River	47.40 339	P	P	14 04 36.0 +3.0
G17K	Kiwalik Mounta	47.42 340	P	P	14 04 36.0 +2.8
GCSA	Galena City Sc	47.54 338	P	P	14 04 37.4 +3.3
CHUM	Lake Minchumay	47.55 335	P	P	14 04 36.2 +2.0
ZAAO	Zalesovo Array	47.60 51	P	I Amb	14 04 36.0 +1.3 14 04 36.9
ZALV	Zalesovo Beam	47.60 51	P	P	14 04 36.0 +1.3
ZALV	Zalesovo Beam	47.60 51	P	P	14 04 35.0 +0.3
J20K	Novinta River	47.61 336	P	P	14 04 36.7 +2.0
J20K	Novinta River	47.61 336	P	P	14 04 37.0 +2.3
G16K	Koyuk River	47.76 341	P	P	14 04 38.8 +2.9
F15K	North Star Dit	47.77 342	P	P	14 04 38.3 +2.4
O28M	Mount Upton	47.77 326	P	P	14 04 38.8 +2.4
WAT1	Susitna Watana	47.79 332	P	P	14 04 38.9 +2.8
O29M	Mount Kennedy	47.79 325	P	P	14 04 38.1 +1.8
H17K	Granite Mounta	47.84 340	P	P	14 04 39.2 +1.8
WAT6	Susitna Watana	47.85 332	P	P	14 04 38.9 +2.1
CTG	Chitna Glacier	47.88 327	P	P	14 04 39.3 +2.4
MCARA	McCarthy VSAT	47.90 328	P	P	14 04 38.3 +1.3
CAST	Cast Rocks	47.93 334	P	P	14 04 39.0 +1.8
M24K	Tolsona, Glenn	47.95 330	P	P	14 04 39.6 +2.2
PLBC	Pleasant Camp	47.96 323	P	P	14 04 39.4 +1.9
J19K	Poorman	48.03 337	P	P	14 04 40.6 +2.7
N25K	Chitna, Valde	48.05 329	P	P	14 04 40.5 +2.3
KURBB	Kurchatov Arra	48.12 58	P	P	14 04 39.5 +0.8
K20K	Tell	48.35 336	P	P	14 04 42.6 +2.2
PPLA	Purkeypile	48.43 334	P	P	14 04 43.3 +2.1
SCM	Sheep Creek Mo	48.43 331	P	P	14 04 42.4 +1.2
SCM	Sheep Creek Mo	48.43 331	P	P	14 04 43.5 +2.3
KLU	Klutina	48.44 330	P	P	14 04 43.4 +2.2
CRQE	Cirque	48.47 328	P	P	14 04 43.5 +2.0
R32K	Eaglecrest	48.50 321	P	P	14 04 43.5 +1.9
PNL	Peninsula	48.55 325	P	P	14 04 43.7 +1.7
M23K	Glacier View	48.55 331	P	P	14 04 44.2 +2.2
BMRM	Bremner River	48.62 329	P	P	14 04 44.3 +1.7
J18K	Innok River	48.71 337	P	P	14 04 45.4 +2.2
I17K	Unalakleet	48.95 339	P	P	14 04 47.8 +2.9
ANM	Nome	48.96 342	P	P	14 04 47.9 +2.8
PMR	Palmer	49.02 332	P	P	14 04 47.9 +2.4
L20K	Farewell, AK	49.13 335	P	P	14 04 48.4 +2.0
SKT	Skwentna	49.15 333	P	P	14 04 48.2 +1.7
S32K	Killsnoo	49.21 321	P	P	14 04 48.9 +1.9
SUA	Susitna One	49.47 333	P	P	14 04 50.0 +0.8
J16K	Anvik River	49.50 339	P	P	14 04 51.6 +2.4
PWL	Port Wells	49.52 331	P	P	14 04 50.8 +1.3
PWL	Port Wells	49.52 331	P	P	14 04 51.3 +1.8
M20K	Styx River	49.54 334	P	P	14 04 51.2 +1.6
RC01	Rabbit Creek A	49.60 332	P	P	14 04 52.2 +2.1
K17K	Iditarod	49.67 338	P	P	14 04 52.5 +2.0
L18K	Granite Mounta	49.87 336	P	P	14 04 53.1 +1.1
L17K	Donlin	50.22 337	P	P	14 04 56.2 +1.6
K15K	Wolf Creek Mou	50.58 339	P	P	14 04 59.2 +1.8
M17K	Holinta River	50.76 336	P	P	14 05 00.1 +1.3
L15K	Redoubt Volcan	50.82 333	P	P	14 04 59.9 +0.5
RED	Ungalak Mounta	51.16 339	P	P	14 05 03.8 +2.1
KKAR	Karatay Array	51.24 70	P	P	14 05 03.8 +1.2
M16K	Timber Creek	51.27 337	P	P	14 05 04.9 +1.5
K13K	Kusilvak Mount	51.38 341	P	P	14 05 05.3 +1.9
YNE	Yellowstone No	51.52 295	P	I Amb	14 05 05.7 +0.7 14 05 13.8
N17K	Nushagak Hills	51.54 336	P	P	14 05 06.0 +1.4
BOZ	Bozeman (W)	51.65 297	I Amb	I Amb	14 05 09.7
L14K	Kukuk Creek	51.66 340	P	P	14 05 07.0 +1.5
O18K	Koktuh Hills	51.81 334	P	P	14 05 08.0 +1.4
N16K	Nisilik Lake	51.86 337	P	P	14 05 09.0 +1.9
M15K	Kasigluk River	51.97 338	P	P	14 05 09.9 +2.1
M14K	Bethel	52.11 339	P	P	14 05 09.6 +2.0
M14K	Bethel	52.11 339	P	P	14 05 11.2 +2.3
O17K	Koliganek Bris	52.23 336	P	P	14 05 11.8 +2.1
M13K	Dell Lake	52.65 340	P	P	14 05 15.3 +2.4
MKAR	Makanchi Array	52.69 58	P	P	14 05 14.6 +1.1
MKAR	Makanchi Array	52.69 58	P	P	14 05 14.1 +0.7
N14K	Kuskokwak Cree	52.86 338	P	P	14 05 17.1 +2.7
TORD	Torodi Ar. Bea	53.12 157	P	P	14 05 18.3 +1.4
BW06	Boulder Array	53.22 293	I Amb	I Amb	14 05 22.0
PD31	Pinedale Array	53.22 293	I Amb	I Amb	14 05 22.0
PDAR	Pinedale Array	53.22 293	P	P	14 05 17.3 -0.3 14 05 18.2 +0.5

BOOM	Boomsoko usch	53.92 66	P	P	14 05 23.7 +1.0 14 05 27.4
KDJ	Kajisay	54.71 65	P	I Amb	14 05 32.7 +2.2 14 05 32.7
HWUT	Hardware Ranch	54.99 294	P	P	14 05 30.7 +0.1 14 05 34.2
KSH	Kashi	56.46 68	P	P	14 05 44.3 +3.3
PV21	Cone Mtn., Par	56.56 290	I Amb	I Amb	14 05 46.4
PV12	Saur Basin	56.70 290	I Amb	I Amb	14 05 46.2
PV16	Nyswonger Mesa	56.75 290	I Amb	I Amb	14 05 47.4
PV01	Paradox Valley	56.76 290	I Amb	I Amb	14 05 46.9
PV17	East Wyr Mesa	56.80 290	I Amb	I Amb	14 05 47.0
HMU	Henry Mountain	57.81 291	I Amb	I Amb	14 06 22.8
MVU	Marysville	57.91 293	I Amb	I Amb	14 05 55.7
BRDY	Brady	58.65 277	P	I Amb	14 05 55.5 -1.0 14 06 00.6
R11B	Troy Canyon, C	59.37 295	I Amb	I Amb	14 06 06.5
GWY	Greenwater Val	61.67 295	P	P	14 06 17.3 +0.1
TXAR	Lajitas Array	62.33 280	P	P	14 06 22.6 +0.9
MDP	Montagnes des	64.54 220	LR	LR	14 27 25.3
GTA	Gaotai	65.27 49	pP	pP	14 06 41.4 +0.5 14 06 47.4 +1.4
HHC	Hu-ho-hao-te	67.49 40	eP	eP	14 06 55.9 +0.8
PZH	Panzhihua	77.72 53	pP	pP	14 07 57.0 +0.9
NJ2	Nanjing	77.73 37	eP	eP	14 07 55.6 -0.3
CMAR	Chiang Mai Arr	84.10 59	P	P	14 08 30.8 +0.6

IDC 24 13:57:15.7:0.8,26:145:70:92E,h0km,mb3.9/9,  
mbmp3.9/9,MS4.1/4,Error ellipse:s-maj=28.3km  
s-min=22.6km az=106.0

ISC 24 13:











24x15h

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like NIL, WMQ, USRK, etc.

2019 JUN

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like ASUD, AJN, MZR, etc.

1530

Table with columns: Call Sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like KIV, BELG, KOPT, etc.

TROLL	comp=Z,14nm,1.1s	90.08 197	UP	P	16 05 28.5 +1.5
TURR	comp=Z,488nm,0.9s	90.08 316	UP	P	16 05 27.6 +0.2
MNSK	comp=E,14nm,0.8s	90.18 325	UP	P	16 05 25.5 -2.0
MNK	comp=N,14nm,0.8s			P	16 05 25.5 -2.0
MNK	comp=Z,16nm,0.6s,baz=99			P	16 07 26.0 -0.5
MNK				PP	16 09 08.9 -2.1
MNK				PPP	16 11 11.8
MNK				SS	16 15 03.4 -3.5
MNK				SS	16 18 51.8 -1.6
MNK				SS	16 21 49.9 -1.2
MNK				SSS	16 25 34.3
MNK				LR	16 48 30.9
UNV	Unalaska Valle	90.51 36	P	P	16 05 28.9 -0.1
WIN	Windhoek	90.81 247	I Amb	I Amb	16 05 33.6
BURAR	Bucovina Array	90.83 318	P	P	16 05 30.4 -0.6
BURAR	comp=Z,6.7nm,0.8s			I Amb	16 05 32.3
BURAR	Bucovina Array	90.83 318	UP	P	16 05 31.3 +0.4
BUR08	Bucovina Ar. S	90.85 318	I Amb	I Amb	16 05 32.1
NACGM	Naroch	90.87 325	UP	P	16 05 25.6 -5.2
RNP5	Starj 6nm,0.8s,baz=98	90.88 321	P	P	16 05 30.4 -0.5
RNP9	Sopachiv	90.90 321	P	P	16 05 30.4 -0.6
LOT	Lotru	91.56 315	UP	P	16 05 34.0 -0.4
M11K	Mekoryuk	91.66 30	P	P	16 05 34.7 +0.4
TNA	Tin City	91.70 24	P	P	16 05 35.0 +0.7
SNA	Sanae	91.77 197	UP	P	16 05 36.0 +1.2
SNA	comp=Z,163nm,0.8s			P	16 05 35.9 +1.1
SNA	Sanae	91.77 197	P	P	16 05 35.9 +1.2
SNA	Sanae	91.77 197	P	P	16 05 35.9 +1.2
FINES	FINES Array B	92.17 331	P	P	16 05 36.0 -0.6
FINES	FINES Array B	92.17 331	P	P	16 05 36.4 -0.2
FINES	comp=Z,0.8nm,0.4s,baz=112,slow=3.9,SNR=30			PKIP	16 10 22.1 -0.3
FINES	comp=Z,0.5nm,0.3s,baz=248,slow=1.5,SNR=6.2			PKIP	16 22 49.4 +0.9
F14K	Arctic Creek	92.34 25	P	P	16 05 38.3 +0.9
K13K	Kusivlak Mount	92.61 28	P	P	16 05 39.1 +0.5
ANM	Nome	92.62 25	P	P	16 05 39.2 +0.6
KWP	Kaiwarja Pacla	92.72 319	P	P	16 05 39.2 -0.2
BOVS	Bovan	92.85 313	UP	P	16 05 39.7 -0.5
KOLS	Koloniche sedl	92.93 319	eP	P	16 05 41.0 +0.6
M13K	Dall Lake	93.06 30	P	P	16 05 41.4 +0.7
F15K	North Star Dit	93.07 24	P	P	16 05 41.3 +0.6
BZS	Buzias	93.09 315	UP	P	16 05 40.5 -0.7
S1RR	Siria	93.11 316	UP	P	16 05 41.1 -0.2
C16K	Lisburne Hills	93.11 22	P	P	16 05 41.1 +0.3
G15K	Niukluk	93.24 25	P	P	16 05 41.7 +0.3
S12K	Black Hills	93.29 35	P	P	16 05 41.8 -0.1
VNA2	Neumayer-Watz	93.42 197	UP	P	16 05 43.4 +1.2
ARCES	ARCES Array B	93.44 309	P	P	16 05 40.8 -1.5
ARCES	comp=Z,2.4nm,0.6s,baz=99,slow=7.0,SNR=22			PKIP	16 10 24.1 -0.4
L14K	Kuka Creek	93.48 29	I Amb	I Amb	16 05 43.8
L14K	Kuka Creek	93.48 29	P	P	16 05 43.0 +0.5
STHS	Stebnicka Huta	93.65 319	eP	P	16 05 43.3 -0.4
M14K	Bethel	93.78 29	I Amb	I Amb	16 05 45.4
M14K	Bethel	93.78 29	P	P	16 05 44.6 +0.6
VNA1	Neumayer-Stat	93.81 197	UP	P	16 05 44.3 +0.3
N14K	Kuskokwak Cree	93.85 30	P	P	16 05 44.6 +0.3
D17K	Noatak River	93.90 22	P	P	16 05 45.7 +1.3
VNA3	Neumayer Olymp	93.91 196	UP	P	16 05 45.5 +1.0
C17K	DeLong Mountai	93.94 22	P	P	16 05 45.2 +0.6
H16K	Elim	93.97 26	P	P	16 05 45.6 +0.8
G16K	Koyuk River	93.99 25	P	P	16 05 45.7 +0.8
L15K	Ungalak Mounta	94.08 29	P	P	16 05 46.4 +1.1
K15K	Wolf Creek Mou	94.10 28	P	P	16 05 46.4 +1.0
NIE	Niedzica	94.26 319	P	P	16 05 46.5 0.0
E17K	Hotham Inlet	94.33 23	P	P	16 05 47.3 +0.9
BELA	Belgrano 2	94.39 187	P	P	16 05 46.3 -0.2
BELA	comp=Z,5.6nm,1.0s			I Amb	16 05 47.8
M15K	Kasigluk River	94.40 30	P	P	16 05 47.1 +0.3
B18K	Kokolik River	94.50 21	P	P	16 05 48.2 +1.1
I17K	Unalakleet	94.59 26	P	P	16 05 48.8 +1.2
J16K	Anvik River	94.60 27	I Amb	I Amb	16 05 49.7
J16K	Anvik River	94.60 27	P	P	16 05 48.8 +1.1
N15K	Kwethluk River	94.66 30	I Amb	I Amb	16 05 50.0
N15K	Kwethluk River	94.66 30	P	P	16 05 48.4 +0.4
C18K	Utukok River	94.67 22	I Amb	I Amb	16 05 49.5
C18K	Utukok River	94.67 22	P	P	16 05 48.5 +0.5
G17K	Kiwalik Mounta	94.70 25	P	P	16 05 49.1 +1.0
O15K	Ungalikthiuk R	94.74 31	P	P	16 05 48.4 0.0
A19K	Wainwright	94.81 20	P	P	16 05 49.4 +1.0
E18K	Tukpahleirik C	94.83 23	P	P	16 05 49.6 +1.0
H17K	Granite Mounta	94.98 25	I Amb	I Amb	16 05 51.4
H17K	Granite Mounta	94.98 25	P	P	16 05 50.4 +0.9
L16K	Owhat River	95.04 29	I Amb	I Amb	16 05 51.2
L16K	Owhat River	95.04 29	P	P	16 05 50.1 +0.4
MORH	Mrgy, Hungar	95.00 316	P	P	16 05 49.6 -1.2
M16K	Timber Creek	95.26 29	P	P	16 05 51.1 +0.4
C19K	Lookout Ridge	95.28 21	I Amb	I Amb	16 05 52.4
C19K	Lookout Ridge	95.28 21	P	P	16 05 51.6 +0.9
J17K	VABM Dome	95.29 27	P	P	16 05 51.8 +0.8
N16K	Nishlik Lake	95.33 30	P	P	16 05 51.8 +0.6
G18K	Tagagawik	95.55 24	P	P	16 05 52.6 +0.7
L17K	Donlin	95.61 28	P	P	16 05 53.2 +0.9
K17K	Iditarod	95.62 28	I Amb	I Amb	16 05 54.2
K17K	Iditarod	95.62 28	P	P	16 05 53.2 +0.9
O16K	Kokwok River B	95.64 31	P	P	16 05 52.7 +0.2
H18K	Honhosa River	95.65 25	P	P	16 05 53.8 +1.4
D19K	Kuna River	95.80 22	P	P	16 05 53.9 +0.8
MPLH	Magyarpolny	96.00 317	P	P	16 05 53.9 -0.5
M17K	Hollina River	96.00 29	P	P	16 05 55.0 +0.9
N17K	Nushagak Hills	96.12 30	P	P	16 05 55.2 +0.6
E19K	Redstone River	96.13 23	P	P	16 05 55.3 +0.8
B20K	Meade River	96.14 20	P	P	16 05 55.3 +0.8
O17K	Koliganek Bris	96.16 31	P	P	16 05 55.6 +0.9
G19K	Purcell Mounta	96.19 24	I Amb	I Amb	16 05 56.2
G19K	Purcell Mounta	96.19 24	P	P	16 05 55.6 +0.8
GCSA	Galena City Sc	96.28 26	P	P	16 05 56.1 +0.9
SPITS	Spitsbergen Ar	96.31 348	P	P	16 05 54.4 -0.8
D20K	Etiwuk River	96.35 22	P	P	16 05 56.2 +0.7
J18K	Innok River	96.35 27	I Amb	I Amb	16 05 57.0
J18K	Innok River	96.35 27	P	P	16 05 56.2 +0.6
L18K	Granite Mounta	96.37 28	I Amb	I Amb	16 05 57.4
L18K	Granite Mounta	96.37 28	P	P	16 05 56.6 +0.9
H19K	Roundabout Mou	96.45 25	I Amb	I Amb	16 05 59.0
H19K	Roundabout Mou	96.45 25	P	P	16 05 57.1 +1.1
H19K	Nigu River	96.52 22	P	P	16 05 57.1 +0.8
F20K	Avarakt Lake	96.72 23	P	P	16 05 58.1 +0.9
N18K	Kilae Creek	96.76 30	P	P	16 05 58.1 +0.6
Q17K	Contact Creek	96.78 32	P	P	16 05 58.3 +0.8
M18K	Siatic River	96.78 29	P	P	16 05 58.3 +0.8
J19K	Poorman	96.83 26	P	P	16 05 58.4 +0.7
A22K	Sinclair Lake	96.85 19	P	P	16 05 58.4 +0.8
C21K	Knifblade Rid	97.00 21	P	P	16 05 59.3 +0.9
B21K	Ikpikpuk River	97.04 21	I Amb	I Amb	16 06 00.2
B21K	Ikpikpuk River	97.04 21	P	P	16 05 59.2 +0.7
P18K	Big Mountain,	97.11 31	P	P	16 06 00.1 +1.0
O18K	Koktuk Hills	97.11 30	P	P	16 06 00.0 +0.9
H20K	Anoteneega Mo	97.11 25	P	P	16 05 59.8 +0.8
L19K	White Mountai	97.23 28	P	P	16 06 00.3 +0.7
E21K	Killik River	97.33 22	I Amb	I Amb	16 06 01.3
E21K	Killik River	97.33 22	P	P	16 06 00.5 +0.5
B22K	Teshkepuk Lake	97.41 20	P	P	16 06 00.6 +0.4
N19K	Bonzana Creek	97.44 29	P	P	16 06 01.4 +0.7
M19K	Big River Lodg	97.45 28	P	P	16 06 01.9 +0.3
J20K	Nowinta River	97.47 26	I Amb	I Amb	16 06 03.4
J20K	Nowinta River	97.47 26	P	P	16 06 01.4 +0.8
K20K	Telida	97.54 27	I Amb	I Amb	16 06 02.8
K20K	comp=Z,3.1nm,0.8s	97.54 27	P	P	16 06 01.5 +0.6
R18K	Kariuk	97.55 33	P	P	16 06 01.6 +0.6
IMAR	Imari Mountai	97.55 24	P	P	16 06 01.4 +0.4
F21K	Alatna River	97.59 23	P	P	16 06 01.6 +0.5
G21K	Allakaket	97.62 24	P	P	16 06 02.0 +0.7
L20K	Farewell, AK	97.67 28	P	P	16 06 02.3 +0.7
D22K	Ayikyak River	97.77 21	P	P	16 06 02.6 +0.8
H21K	Melozitna River	97.96 25	P	P	16 06 03.5 +0.7
M20K	Styx River	98.05 28	P	P	16 06 03.8 +0.5
F22K	John River	98.07 23	P	P	16 06 03.9 +0.7
E22K	Anaktuvuk Pass	98.15 22	P	P	16 06 04.4 +0.7
HFS	Hagfors	98.17 330	P	P	16 06 03.7 -0.1
HFS	comp=Z,9.4nm,0.7s,baz=90,slow=4.4,SNR=25			PP	16 10 12.0 -0.1
OHAK	Old Harbor	98.19 33	P	P	16 06 04.2 +0.3
G22K	Bettie	98.28 23	P	P	16 06 05.3 +0.7
PPLA	Purkeypile	98.42 27	P	P	16 06 05.5 +0.4
CAST	Cass Rocks	98.43 27	P	P	16 06 05.8 +0.8
D23K	Nanushuk River	98.48 21	P	P	16 06 05.8 +0.8
H22K	Ishlathina Cre	98.53 24	P	P	16 06 06.3 +0.9
KDAK	Kodiak Island	98.55 33	P	P	16 06 06.2 +0.7
GERES	GERES Array B	98.58 318	P	P	16 06 07.5 +1.4
GERES	comp=Z,0.3nm,0.5s,baz=76,slow=4.7,SNR=3.6			PP	16 10 13.8 -1.9
GERES	comp=Z,0.7nm,0.8s,baz=96,slow=8.0,SNR=4.8			PKIP	16 10 34.1 -0.2
SKT	Skwentna	98.80 28	P	P	16 06 07.1 +0.5
COLD	Coldfoot	98.86 23	P	P	16 06 07.6 +0.8
BPWA	Bear Paw Mtn.	98.86 26	P	P	16 06 07.3 +0.4
MLY	Manley	98.88 25	P	P	16 06 07.6 +0.6
HOM	Homar	98.92 31	P	P	16 06 08.1 +0.9
TOLK	Toolik Lake Re	98.92 21	P	P	16 06 07.9 +0.8
CLL	Collim	98.96 321	eP	P	16 06 07.0 -0.5
CLL	CLL	98.96 321	eP	P	16 06 09.0
E23K	Chandalar	98.98 22	P	P	16 06 08.0 +0.6
G23K	Baranaz Creek	98.99 23	P	P	16 06 08.2 +0.7
C24K	Franklin Bluff	99.08 20	P	P	16 06 08.8 +1.2
D24K	Happy Valley	99.12 21	P	P	16 06 09.0 +1.2
SUA	Susitna One	99.22 29	P	P	16 06 09.3 +0.7
TRF	Thorofare Moun	99.23 27	P	P	16 06 09.4 +0.7
H23K	Yuk				

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Barranco-do-Ve, Messejana, Marlete, etc.

JMA 24 16:01:29.4+0.2, 43.7N:0.7-14.0E, h220km,1km, MV3.3/36,ISHIKARI BAY REGION.

SKHL 24 16:01:30.0+0.6, 43.30N:140.70E, h206km,6km, mb4.7/3, msh4.6/3

IDC 24 16:01:31.1+1.3, 44.05N:140.44E, h217km,13km, mb3.3/11, mbmtp3.8/12, Error ellipse: s-maj=50.2km

ISC 24 16:01:29.5-0.7, 43.72N:105.140.50E, h225km,6km, n39, o099/57, mb3.5/10, Hokkaido region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like Ishikarishitsu, Hokuryu, Eniwo, Shimam, Shosan, Ashibetsu, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HFS Hagfors, AKASG Malin Array Be, PDAR Pinedale Array, etc.

NEIC 24 16:14:40.7+2.1, 11.21S:0.1x178.97W:0.09, h634km,8km, mb4.8/19, Error ellipse: s-maj=16.8km s-min=12.2km

IDC 24 16:14:41.9+0.6, 21.15S:179.06W, h645km,6km, mb4.2/26, mbmtp5.2/27, Error ellipse: s-maj=11.3km s-min=9.5km

NOU 24 16:14:42.1+2.1, 20.21S:179.07W, h633km, mb5.0/96, Fiji Islands Region

GCMT 24 16:14:42.7+0.7, 21.02S:0.06:179.21W:0.05, h644km,5km, MW5.3/49, Moment Tensor Solution.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LKBA Tubou, MSVF Nonavu, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GLKZ Green Lake, NIUE Niue, AFI Afiamalu, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DZM Mt Dzumac, DZM Mt Dzumac, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DZM Mt Dzumac, DZM Mt Dzumac, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like URZ Urewera, URZ Urewera, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like URZ Urewera, URZ Urewera, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SYDH Sydney Hard Ro, CNB Canberra Magne, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR Alice Springs, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WB0 Warramunga Arr, WRAB Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GENI Genyem, GENI Genyem, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BATI Baumata, BATI Baumata, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PSAA0 Pilbara Seismi, PSAA0 Pilbara Seismi, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PSAA0 Pilbara Seismi, PSAA0 Pilbara Seismi, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MORW Morawa, MORW Morawa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MORW Morawa, MORW Morawa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GIRL Giralia, GIRL Giralia, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GQSA South Pole Qui, GQSA South Pole Qui, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JOW Jonigami, JOW Jonigami, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JOW Jonigami, JOW Jonigami, etc.



1533

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like KSM Kuching, TWGBT Beinan, YULB, YULB, YULB, etc.

2019 JUN

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like N17K Nushagak Hills, M16K Timber Creek, PSI, PSI, O19K, etc.

24d 16h

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like MLSI Meulaboh, M23K Glacier View, PPLA Purkeypile, etc.

24d 16h

Table with columns: Station ID, Name, Frequency, Power, Direction, and other parameters. Includes stations like G18K Tagagawik, TXAR Lajitas Array, YUK3 Moose Creek, etc.

2019 JUN

Table with columns: Station ID, Name, Frequency, Power, Direction, and other parameters. Includes stations like C18K Utukok River, C18K Utukok River, F22K John River, etc.

1534

Table with columns: Station ID, Name, Frequency, Power, Direction, and other parameters. Includes stations like ARCES comp=Z,3.1nm,1.1s, FINES FINESS Array B, FINES comp=Z,0.8nm,0.5s, etc.

Table with columns: Name, Comp, Az, El, P, S, Res, etc. Includes stations like CLL, IBBN, CLZ, etc.

Table with columns: Name, Comp, Az, El, P, S, Res, etc. Includes stations like GRF, TNS, etc.

Main table with columns: Name, Comp, Az, El, P, S, Res, etc. Includes stations like MDVR, MOA, EZN, etc.

DJA 24 16:33:49.7-0.7, 6°N, 6°12'E, h194km, 6km, M4.2/6, mb4.2/6, mb4.8/4, MLV4.2/6, Mw(mb)4.1/4, MwMwp5.0/1, Mw5.3/1, Mindanao

Table with columns: Code, Station Name, Az, El, P, S, Res, etc. Includes stations like SGSI, TINTI, SANI, etc.

BUI 24 16:53:13.9, 3.04S x 138.90E, h10km, mb5.3/38, mb5.0/74, Ms5.1/78, Ms7.5/077, IDC 24 16:53:17.5, 0.4, 2.66S, 138.50E, h0km, mb4.8/21, mltm4.9/26, MLV4.5, Error ellipse: s-maj=13.1km s-min=10.7km az=80.0

NEIC 24 16:53:20.0, 1.6, 2.68S, 0.08x138.44E-0.05, h10km, 1km, mb5.7/257, Error ellipse: s-maj=13.4km s-min=9.1km, az=177.0

Table with columns: Code, Station Name, Az, El, P, S, Res, etc. Includes stations like SMPI, GEMI, GENU, etc.

Table with columns: Name, Comp, Az, El, P, S, Res, etc. Includes stations like BAKI, MANU, PMG, etc.



LSA	comp-Z,730nm,17.6s	LR	LR						
GOMU	GeErMu	56.18 318	P	P	17 03 01.3 +1.4				
GOMU			pP	pP	17 03 05.3 -0.8				
GOMU			sP	sP	17 03 07.4 +1.0				
GOMU			PcP	PcP	17 03 50.6 -7.1				
GOMU			S	S	17 10 51.5 +2.7				
GOMU			sS	sS	17 11 08.0 +9.1				
GOMU			pmax	pmax					
GOMU	comp-Z,5.0nm,0.8s		LR	LR					
GOMU	comp-Z,330nm,18.5s		LR	LR					
GOMU	comp-Z,450nm,16.1s		LR	LR					
GOMU	comp-Z,440nm,16.4s		LR	LR					
GTK	Tadong	56.56 305	eP	P	17 03 02.0 -0.6				
GTK			IAMB	IAMB	17 03 03.9				
ULN	Ulanbaatar	57.39 335	P	P	17 03 08.4 +0.4				
SOMN	Songino Array	57.64 335	P	P	17 03 10.1 +0.3				
SOMN	Songino Array	57.64 335	P	P	17 03 10.1 +0.3				
PEA0B	Petropavlovsk-	57.93 14	P	P	17 03 11.6 0.0				
PEA0B			IAMB	IAMB	17 04 04.2				
PETK	Petropavlovsk-	57.93 14	P	P	17 03 11.1 -0.5				
PETK			S	S	17 03 13.1 +0.5				
PETK			eS	eS	17 04 20.8				
PETK			sS	sS	17 03 14.1 +0.7				
PETK			P	P	17 03 16.1				
PETK			IAMB	IAMB	17 03 16.5 +0.2				
PETK			P	P	17 03 27.2 -0.8				
PETK			IAMB	IAMB	17 03 41.5				
PETK			P	P	17 03 40.2 -1.0				
PETK			IAMB	IAMB	17 03 42.6				
PETK			eP	P	17 03 42.6 -0.1				
PETK			eP	P	17 06 01.4 +1.3				
PETK			eS	S	17 02 09.9 +1.0				
PETK			sS	sS	17 13 34.9 +0.3				
PETK			P	P	17 03 45.0 -0.1				
PETK			P	P	17 03 46.8 +1.6				
PETK			P	P	17 04 02.1 +2.9				
PETK			IAMB	IAMB	17 04 02.6				
WMQ	Urumqi	64.88 322	eP	S	17 03 59.0 +0.1				
WMQ			S	S	17 12 42.0 +2.6				
WMQ			pmax	pmax					
WMQ	comp-Z,36nm,0.7s		pmax	pmax					
WMQ	comp-Z,150nm,5.1s		LR	LR					
WMQ	comp-Z,990nm,19.1s		LR	LR					
WMQ	comp-Z,570nm,16.7s		LR	LR					
WMQ	comp-Z,620nm,20.7s		LR	LR					
YAK	Yakutsk	64.93 355	P	P	17 03 58.7 0.0				
CAS	Casey	66.41 192	P	P	17 04 08.9 +0.8				
SMLA	Simla	67.24 305	eP	P	17 04 16.4 +0.4				
SMLA			IAMB	IAMB	17 04 27.6				
DHRM	DHARAMSHALA	68.29 306	eP	IAMB	17 04 20.5 -0.6				
DHRM			IAMB	IAMB	17 04 33.8				
ZSN	Zaisan	68.44 324	eP	P	17 04 22.1 +0.7				
STCH	Stem Cracks	68.78 68	P	P	17 04 23.8 -0.4				
MKAR	Makanchi Array	69.67 322	P	P	17 04 29.3 +0.2				
MKAR	Makanchi Array	69.67 322	P	P	17 04 29.1 0.0				
MAKZ	Makanchi	69.86 322	P	P	17 04 29.9 -0.4				
SHLS	Shalkode	69.88 318	eP	P	17 04 29.5 -1.1				
UZB	Uzymbulak	70.17 318	eP	P	17 04 33.0 +0.6				
KPKS	Kokpek	70.52 318	eP	P	17 04 35.1 +0.6				
SATY	Saty	70.55 318	eP	P	17 04 35.3 +0.6				
KSH	Kashi	70.93 313	P	sP	17 04 38.8 +1.7				
KSH			sP	S	17 04 46.8 +1.1				
KSH			pmax	pmax	17 13 49.5 -2.6				
KSH	comp-Z,12nm,1.2s		pmax	pmax					
KSH	comp-Z,170nm,5.0s		LR	LR					
KSH	comp-Z,520nm,21.3s		LR	LR					
KSH	comp-Z,950nm,19.9s		LR	LR					
NIL	Nilore	71.16 307	P	P	17 04 38.4 0.0				
TDK	Taldygorghan	71.33 320	eP	P	17 04 39.9 +0.7				
MDOK	Medeo	71.50 317	eP	P	17 04 41.1 +0.5				
AAK	Alma-Ata	71.61 317	eP	P	17 04 41.7 +0.6				
ZALV	Zalesovo Beam	71.84 330	P	P	17 04 41.2 -0.9				
ZALV	Zalesovo Beam	71.84 330	P	P	17 04 41.4 -0.7				
PPT2	Papeete2	71.97 108	ePKP1	S	17 04 42.5 -1.2				
PPT2			eS	S	17 14 05.6 +0.9				
PPT2	comp-Z,384nm,26.2s		eLQ	LQ	17 23 35.5				
PPT2	comp-Z,939nm,36.8s		eLR	LR	17 26 38.8				
PPT2	comp-Z,1um,23.0s		eLR	LR	17 26 39.3				
PPT2	comp-Z,1um,23.2s		eLR	LR	17 26 39.3				
TBI	Tubuaj	72.45 114	eP	S	17 04 47.3 +0.9				
TBI	comp-Z,436nm,26.8s		eS	S	17 14 07.9 -2.1				
TBI	comp-Z,1um,28.5s		eSS	SS	17 18 46.0 -2.9				
TBI	comp-Z,2um,30.8s		eLR	LR	17 26 46.7				
TBI	comp-Z,7um,25.0s		eLR	LR	17 26 53.3				
UNV	Unalaska Valle	72.47 31	P	P	17 04 46.0 +0.2				
PO8K	Saint George I	72.49 27	P	P	17 04 46.4 +0.5				
AAK	Ala-Archa	73.06 316	P	P	17 04 50.3 +0.5				
AAK	Ala-Archa	73.06 316	P	P	17 04 50.0 +0.1				
BILL	Bilibino	73.23 11	P	P	17 04 49.5 -0.6				
KURB	Kurchatov	73.60 325	P	P	17 04 51.1 -0.7				
KURB	Kurchatov Arra	73.61 325	P	P	17 04 52.5 -0.3				
BTL	Batal	74.20 318	eP	P	17 04 56.8 +0.4				
TIXI	Tiksi	74.21 357	IAMB	IAMB	17 04 56.3 +1.0				
BTK	Batken	74.87 313	IAMB	IAMB	17 06 10.7				
DZA	Taraz	75.35 316	eP	P	17 05 03.6 +0.5				
S12K	Black Hills	75.62 30	IAMB	IAMB	17 05 07.8				
S12K	Black Hills	75.62 30	P	P	17 05 04.3 0.0				
VNDA	Vanda	75.78 175	P	P	17 05 04.9 +0.1				
VNDA	Vanda	75.78 175	P	P	17 05 05.2 +0.4				
SIMJ	Simiganj	75.83 21	P	P	17 05 07.5 -0.3				
GAMB	Gambell	75.88 20	P	P	17 05 06.2 +0.6				
KKAR	Karatay Array	75.98 316	P	P	17 05 06.4 -0.3				
KKAR	Karatay Array	75.98 316	IAMB	IAMB	17 06 10.6				

M11K	Mekoryuk	76.04 25	P	P	17 05 07.1 +0.6				
IUG	Iuzhny	76.04 315	eP	P	17 05 07.5 +0.4				
SDPT	Sand Point	76.27 31	P	P	17 05 07.6 -0.4				
SDPT	Sand Point	76.27 31	P	P	17 05 10.9 +3.0				
SDPT	Sand Point	76.27 31	P	P	17 05 07.9 0.0				
CHM	Chimkent	76.39 315	eP	P	17 05 09.5 +0.5				
CHNA	Chernabura Isl	76.50 32	P	P	17 05 09.1 -0.2				
SBA	Scott Base	76.55 174	P	P	17 05 09.0 -0.2				
SBA			IAMB	IAMB	17 06 03.3				
BRZS	Berezinski	76.61 323	eP	P	17 05 11.4 +0.2				
S14K	Fog Glacier	77.14 30	P	P	17 05 13.3 +0.3				
M13K	Dall Lake	77.27 26	P	P	17 05 14.5 +1.1				
K13K	Kusilvak Mount	77.49 24	P	P	17 05 15.5 +0.8				
O14K	Tigulikuivut M	77.64 27	P	P	17 05 16.1 +0.5				
O14K	Kuskokwag Cree	77.76 26	P	P	17 05 16.9 +0.6				
L14K	Kuka Creek	78.01 25	P	P	17 05 18.2 +0.6				
M14K	Bethel	78.03 26	P	P	17 05 18.4 +0.7				
TNA	Tin City	78.25 20	P	P	17 05 19.0 +0.1				
O15K	Ungalikthiuk R	78.27 28	P	P	17 05 19.4 +0.3				
J14K	Nanvaranak Lak	78.35 23	P	P	17 05 20.2 +0.8				
M15K	Kasigluk River	78.56 26	P	P	17 05 21.1 +0.5				
N15K	Kwethluk River	78.59 27	IAMB	IAMB	17 06 12.8				
N15K	Kwethluk River	78.59 27	P	P	17 05 21.4 +0.5				
L15K	Ungalak Mounta	78.67 25	P	P	17 05 21.5 +0.2				
F14K	Arctic Creek	78.75 20	P	P	17 05 22.4 +0.7				
K15K	Wolf Creek Mou	78.95 24	IAMB	IAMB	17 06 15.0				
K15K	Wolf Creek Mou	78.95 24	P	P	17 05 23.7 +0.9				
CHIR	Chirikof Mount	78.98 32	P	P	17 05 23.6 +0.5				
P16K	Nushagak River	79.06 28	P	P	17 05 23.5 +0.1				
BVAR	Borovyoye Array	79.20 325	P	P	17 05 24.5 +0.1				
O16K	Kokwok River B	79.25 28	P	P	17 05 24.8 +0.4				
BRVK	Borovyoye	79.27 325	P	P	17 05 24.7 0.0				
N16K	Nishlik Lake	79.31 27	P	P	17 05 25.6 +0.8				
G15K	Niuklu River	79.31 21	P	P	17 05 25.0 +0.3				
M16K	Timber Creek	79.47 26	IAMB	IAMB	17 05 38.1				
M16K	Timber Creek	79.47 26	P	P	17 05 26.3 +0.6				
F15K	North Star Dit	79.47 21	P	P	17 05 26.0 +0.4				
L16K	Owhat River	79.54 25	P	P	17 05 26.5 +0.4				
Q16K	King Salmon	79.55 29	P	P	17 05 26.1 -0.1				
Q17K	Contact Creek	79.77 29	P	P	17 05 26.7 -0.8				
O17K	Koiganek Bris	79.78 28	P	P	17 05 28.1 +0.8				
J16K	Anvik River	79.79 24	IAMB	IAMB	17 06 30.1				
J16K	Anvik River	79.79 24	P	P	17 05 28.3 +1.0				
H16K	Elim	79.80 22	P	P	17 05 28.0 +0.6				
P17K	Kivchak Island	79.86 28	P	P	17 05 27.2 -0.6				
S17K	Sitkinak River	80.00 31	P	P	17 05 30.5 +1.8				
S17K	Sitkinak Island	80.00 31	P	P	17 05 28.8 +0.2				
H17K	Alalakeet	80.03 23	P	P	17 05 29.7 +1.1				
N17K	Nushagak Hills	80.05 27	P	P	17 05 29.6 +0.8				
G16K	Koyuk River	80.13 21	P	P	17 05 29.6 +0.4				
R18K	Karluq	80.22 30	P	P	17 05 29.8 0.0				
L17K	Donlin	80.23 25	P	P	17 05 30.7 +0.9				
M17K	Holtina River	80.29 26	P	P	17 05 31.2 +1.0				
Q18K	Katmai Hardscr	80.34 29	P	P	17 05 29.7 -0.9				
J17K	VABM Dome	80.45 24	IAMB	IAMB	17 06 27.1				
J17K	VABM Dome	80.45 24	P	P	17 05 31.8 +0.9				
K17K	Iditarod	80.48 25	IAMB	IAMB	17 05 43.8				
K17K	Iditarod	80.48 25	P	P	17 05 32.0 +1.0				
P18K	Big Mountain,	80.51 28	P	P	17 05 32.0 +0.6				
C16K	Lisburne Hills	80.61 18	P	P	17 05 32.4 +0.7				
OHAK	Old Harbor	80.69 3							







24d 16h

Table with columns: Call Sign, Frequency, Mode, Power, and other details. Includes stations like M19K Big River Lodg, RED Redoubt Volcan, MAW Mawson, etc.

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Table with columns: Call Sign, Frequency, Mode, Power, and other details. Includes stations like DOT Dot Lake, SCRR Sand Creek, FYU Fort Yukon, etc.

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Table with columns: Call Sign, Frequency, Mode, Power, and other details. Includes stations like LPSR Galich ya Gora, HOPS Hopland Field, MOS Moscow, etc.

Table with columns: JCT, JCT, Junction City, IAMS, PKP, IAMS, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, and WHTX Lake Whitney.

IDC 24 17:02:10.7-1.2, 2.53S:139.84E, h0km, mb3.7/6, mbtmp3.8/7, ML3.8/1, Error ellipse: s-maj=62.0km, s-min=23.9km az=90.0

ISC 24 17:02:14.6-1.2, 2.65S:0.1:139.9E:0.4, h25km, n7, c0995/7, mb3.8/6, Near north coast of Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, and MKAR Makanchi Array.

IDC 24 17:05:27.0-0.6, 2.68S:138.41E, h0km, mb4.1/14, mbtmp4.1/17, ML3.9/3, Error ellipse: s-maj=20.7km, s-min=14.9km az=79.0

NEIC 24 17:05:29.6-1.4, 2.65S:0.1:138.46E:0.08, h10km, n1km, mb4.6/39, Error ellipse: s-maj=17.5km s-min=13.5km az=168.0

DJA 24 17:05:31.3-0.3, 2.54S:139.9E, h10km, M4.4/8, mb4.5/6, ML4.3/8

ISC 24 17:05:32.3-0.4, 2.70S:0.06:138.48E:0.04, h32km, n75, +1842/69, mb4.5/38, 1C, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SMPI Sarmi, GENI Genyem, and JAY Jayapura.

Table with columns: WRA, WRA, Warramunga Arr, 17.61 193, Pn, Pn, 17 09 33.8 -1.7, 17 09 34.2 -1.2. Includes stations like TOLJ Tollo, FITZ Fitzroy Crossi, and AS31 Alice Springs.

IDC 24 17:07:27.6-0.7, 2.68S:138.51E, h0km, mb4.0/12, mbtmp4.0/14, ML4.1/2, Error ellipse: s-maj=23.0km, s-min=17.0km az=65.0

NEIC 24 17:07:30.1-2.0, 2.65S:0.1:138.50E:0.05, h10km, n1km, mb4.3/11, Error ellipse: s-maj=18.4km s-min=9.0km az=177.0

ISC 24 17:07:32.3-0.5, 2.71S:0.08:138.52E:0.05, h32km, n31, +151/33, mb4.0/16, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, and MKAR Makanchi Array.

IDC 24 17:07:32.12:0.1, 8.267S:138.31E, h0km, mb3.3/2, mbtmp3.4/4, ML3.2/2, Error ellipse: s-maj=34.1km, s-min=25.2km az=170.0, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, and MKAR Makanchi Array.

Table with columns: KNRA Kunurra, 16.07 216, Pn, Pn, 17 11 15.8 -0.2, 17 11 19.3. Includes stations like WRR Warramunga Arr, WRA Warramunga Arr, and ASAR Alice Springs.

IDC 24 17:11:09.8-1.0, 2.67S:138.53E, h0km, mb3.7/6, mbtmp3.8/8, ML3.7/3, Error ellipse: s-maj=24.8km, s-min=21.9km az=118.0

ISC 24 17:11:14.3-0.9, 2.75S:0.1:138.50E:0.10, h32km, n9, c078/10, mb3.7/6, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like JAY Jayapura, WRA Warramunga Arr, and FITZ Fitzroy Crossi.

IDC 24 17:18:44.6:2.1, 3.17S:127.59E, h0km, mb3.1/2, s-min=27.1km az=72.0, Seram

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like FITZ Fitzroy Crossi, ASAR Alice Springs, and MKAR Makanchi Array.

DJA 24 17:24:45.8-0.5, 8.5S:4.109E, h37km, n8km, M3.9/16, mb4.2/4, ML3.8/16, Jawa

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CMJI Cimerak, YOGI Yogyakarta, UGM Wanagama, and JAGI Jajag, Banyuwa.



Table with columns: IATA, City, Altitude, Wind, Temp, Humidity, Visibility, etc. Includes entries for Marumori, Sado, Gunung Sitoli, etc.

Table with columns: IATA, City, Altitude, Wind, Temp, Humidity, Visibility, etc. Includes entries for Asahikawa, Taiyuan, Chengdu, etc.

Table with columns: IATA, City, Altitude, Wind, Temp, Humidity, Visibility, etc. Includes entries for Arahi, Matakaoa Point, Pakhiroa, etc.

24d 17h

Table with columns: Station Name, Frequency, Power, Mode, and various signal quality metrics. Includes stations like PET, EVEREST, MA2, YAK, etc.

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Table with columns: Station Name, Frequency, Power, Mode, and various signal quality metrics. Includes stations like MDOK, ZALV, PPT, etc.

1544

Table with columns: Station Name, Frequency, Power, Mode, and various signal quality metrics. Includes stations like M14K, TNA, O15K, etc.



1545

TAOE	Nuku Hiva Isla	81.06	98	eLR	LR	18 12 42.4
Q19K	Cape Douglas	81.10	29	IAMS_20	IAMS_20	18 19 31.0
Q19K	Cape Douglas	81.10	29	P	P	17 47 28.0 -0.3
E17K	Hotham Inlet	81.15	20	P	P	17 47 29.4 +1.1
O19K	Port Alsworth	81.24	28	IAMS_20	IAMS_20	18 19 02.4
O19K	Port Alsworth	81.24	28	P	P	17 47 29.1 +0.2
KDAK	Kodiak Island	81.24	30	P	P	17 47 28.5 -0.5
KDAK	Kodiak Island	81.24	30	IAMB	IAMB	17 47 39.5
KDAK	Kodiak Island	81.24	30	P	P	17 47 29.2 +0.2
KDAK	Kodiak Island	81.24	30	LR	LR	18 19 35.0
KDAK	Kodiak Island	81.24	30	P	P	17 47 29.4 +0.4
RDOG	Red Dog Mine	81.28	19	IAMB	IAMB	17 47 32.7
RDOG	Red Dog Mine	81.28	19	P	P	17 47 29.8 +0.8
N19K	Bonanza Creek	81.39	27	IAMB	IAMB	17 47 32.1
N19K	Bonanza Creek	81.39	27	P	P	17 47 30.6 +0.7
C17K	DeLong Moutai	81.40	19	P	P	17 47 30.4 +0.7
J18K	Innoko River	81.45	24	IAMB	IAMB	17 47 40.7
J18K	Innoko River	81.45	24	P	P	17 47 30.6 +0.6
H18K	Honhosa River	81.51	22	IAMS_20	IAMS_20	18 19 23.1
H18K	Honhosa River	81.51	22	P	P	17 47 30.7 +0.4
P19K	Oil Pt	81.56	28	P	P	17 47 30.6 -0.1
Q20K	Shuyak Island	81.61	30	P	P	17 47 31.0 +0.1
SYI	Shuyak Island	81.61	30	IAMB	IAMB	17 47 31.8
SYI	Shuyak Island	81.61	30	IAMS_20	IAMS_20	18 17 32.3
F18K	Selawik	81.68	21	P	P	17 47 31.8 +0.7
G18K	Tagagawik	81.72	22	P	P	17 47 31.9 +0.4
E18K	Tukpahleark C	81.73	20	IAMB	IAMB	17 47 35.1
E18K	Tukpahleark C	81.73	20	P	P	17 47 32.2 +0.7
L19K	White Mountain	81.73	26	IAMB	IAMB	17 47 33.8
L19K	White Mountain	81.73	26	IAMS_20	IAMS_20	18 19 39.3
L19K	White Mountain	81.73	26	P	P	17 47 32.4 +0.9
M19K	Big River Lodg	81.83	26	IAMB	IAMB	17 47 43.3
M19K	Big River Lodg	81.83	26	IAMS_20	IAMS_20	18 19 32.0
M19K	Big River Lodg	81.83	26	P	P	17 47 33.3 +1.2
GCSA	Galena City Sc	81.91	23	P	P	17 47 32.9 +0.5
O20K	Slope Mountain	81.99	28	P	P	17 47 33.3 +0.3
MAW	Mawson	82.02	20	P	P	17 47 33.2 +0.3
MAW	Mawson	82.02	20	LR	LR	18 22 07.7
MAW	Mawson	82.02	20	P	P	17 47 33.2 +0.3
RED	Redoubt Volcan	82.04	28	IAMB	IAMB	17 47 42.4
J19K	Poorman	82.11	24	IAMB	IAMB	17 47 35.7
J19K	Poorman	82.11	24	P	P	17 47 34.3 +0.9
C18K	Utukok River	82.12	19	P	P	17 47 34.1 +0.5
L20K	Farewell AK	82.27	26	P	P	17 47 35.4 +1.1
B18K	Kokovik River	82.28	18	P	P	17 47 35.0 +0.7
HOM	Homer	82.32	29	IAMS_20	IAMS_20	18 20 50.9
HOM	Homer	82.32	29	P	P	17 47 35.2 +0.6
M20K	Styx River	82.38	26	IAMB	IAMB	17 47 37.2
M20K	Styx River	82.38	26	IAMS_20	IAMS_20	18 19 59.5
M20K	Styx River	82.38	26	P	P	17 47 35.9 +0.9
H19K	Roundabout M7	82.39	22	IAMB	IAMB	17 47 39.9
H19K	Roundabout M7	82.39	22	IAMS_20	IAMS_20	18 20 21.6
H19K	Roundabout M7	82.39	22	P	P	17 47 35.8 +0.9
G19K	Purcell Mouta	82.41	22	IAMB	IAMB	17 47 38.8
G19K	Purcell Mouta	82.41	22	P	P	17 47 35.8 +0.7
CNPMP	China Poot	82.47	29	IAMS_20	IAMS_20	18 19 57.1
K20K	Telida	82.50	25	IAMS_20	IAMS_20	18 20 47.7
K20K	Telida	82.50	25	P	P	17 47 36.3 +0.7
N20K	Mount Spurr	82.56	27	P	P	17 47 35.3 -0.7
SPCR	Spurr Chakacha	82.56	27	P	P	17 47 35.5 -0.5
BRLK	Bradley Lake	82.72	29	IAMB	IAMB	17 47 46.5
BRLK	Bradley Lake	82.72	29	IAMS_20	IAMS_20	18 22 42.2
J20K	Nowitza River	82.78	24	P	P	17 47 38.0 +1.0
BRSE	Bradley Lake S	82.78	29	P	P	17 47 36.6 -0.5
C19K	Lookout Ridge	82.85	19	IAMB	IAMB	17 47 40.9
C19K	Lookout Ridge	82.85	19	P	P	17 47 38.5 +1.2
I20K	Naaghedeneel	82.87	23	IAMS_20	IAMS_20	18 19 35.3
I20K	Naaghedeneel	82.87	23	P	P	17 47 38.2 +0.8
CAPN	Captain Cook N	82.91	28	IAMS_20	IAMS_20	18 22 51.5
CAPN	Captain Cook N	82.91	28	P	P	17 47 38.5 +0.8
E19K	Redstone River	82.91	20	IAMB	IAMB	17 47 50.2
E19K	Redstone River	82.91	20	IAMS_20	IAMS_20	18 22 10.1
E19K	Redstone River	82.91	20	P	P	17 47 38.4 +0.8
A19K	Wainwright	82.92	17	P	P	17 47 38.6 +1.1
H20K	Anotleneega M	82.98	23	P	P	17 47 38.7 +0.6
D19K	Kuna River	83.06	19	P	P	17 47 39.2 +0.8
SKT	Skwentna	83.12	27	IAMB	IAMB	17 47 39.1
SKT	Skwentna	83.12	27	IAMS_20	IAMS_20	18 20 24.2
SKT	Skwentna	83.12	27	P	P	17 47 37.9 -1.0
PPLA	Purkeypile	83.14	26	IAMS_20	IAMS_20	18 20 31.6
PPLA	Purkeypile	83.14	26	P	P	17 47 39.1 0.0
SLKM	Skilak Lake	83.26	28	IAMS_20	IAMS_20	18 23 48.0
F20K	Avarart Lake	83.28	21	IAMB	IAMB	17 47 50.6
F20K	Avarart Lake	83.28	21	P	P	17 47 40.4 +0.9

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SUA	Susitna One	83.31	27	IAMB	IAMB	17 47 44.2
SUA	Susitna One	83.31	27	IAMS_20	IAMS_20	18 21 02.3
SUA	Susitna One	83.31	27	P	P	17 47 39.1 -0.8
CAST	Castle Rocks	83.36	25	IAMB	IAMB	17 47 41.5
CAST	Castle Rocks	83.36	25	IAMS_20	IAMS_20	18 23 33.4
CAST	Castle Rocks	83.36	25	P	P	17 47 40.1 0.0
CHUM	Lake Minchumin	83.42	25	P	P	17 47 41.1 +0.7
FIS	Fire Island	83.46	28	IAMS_20	IAMS_20	18 20 34.1
O22K	Cooper Landing	83.49	28	IAMS_20	IAMS_20	18 24 14.0
O22K	Cooper Landing	83.49	28	P	P	17 47 40.3 -0.4
SEW	Seward	83.51	29	IAMB	IAMB	17 47 42.0
SEW	Seward	83.51	29	P	P	17 47 40.8 0.0
IMAR	Indian Moutai	83.60	22	P	P	17 47 41.0 -0.2
E20K	Nigu River	83.60	20	P	P	17 47 41.9 +0.7
D20K	Etiwuk River	83.65	19	P	P	17 47 42.1 +0.7
RC01	Rabbit Creek A	83.66	28	IAMB	IAMB	17 47 42.5
RC01	Rabbit Creek A	83.66	28	IAMS_20	IAMS_20	18 20 38.5
RC01	Rabbit Creek A	83.66	28	P	P	17 47 41.3 -0.3
M22K	Willow	83.69	27	P	P	17 47 40.7 -0.9
CUT	Chulitna	83.82	26	IAMS_20	IAMS_20	18 20 45.7
CUT	Chulitna	83.82	26	P	P	17 47 41.6 -0.7
H21K	Melozitna Riv	83.84	23	IAMB	IAMB	17 47 44.5
H21K	Melozitna Riv	83.84	23	P	P	17 47 43.2 +0.7
G21K	Allakaket	83.89	22	P	P	17 47 43.2 +0.5
KTH	Kantishna Hill	83.90	25	IAMB	IAMB	17 47 45.2
B20K	Meade River	84.02	18	P	P	17 47 44.1 +0.8
BPWA	Bear Paw Mtn.	84.05	25	IAMB	IAMB	17 47 53.8
BPWA	Bear Paw Mtn.	84.05	25	IAMS_20	IAMS_20	18 22 55.5
BPWA	Bear Paw Mtn.	84.05	25	P	P	17 47 43.5 -0.1
PMR	Palmer	84.09	27	IAMB	IAMB	17 47 44.6
PMR	Palmer	84.09	27	P	P	17 47 44.3 +0.6
PMR	Palmer	84.09	27	P	P	17 47 43.1 -0.7
TRF	Thorofore Mtn	84.14	25	IAMB	IAMB	17 47 47.3
TRF	Thorofore Mtn	84.14	25	P	P	17 47 43.5 -0.7
F21K	Alatna River	84.15	21	IAMS_20	IAMS_20	18 24 51.0
F21K	Alatna River	84.15	21	P	P	17 47 44.3 +0.2
GHO	Glory Hole Cre	84.24	27	IAMB	IAMB	17 47 45.8
GHO	Glory Hole Cre	84.24	27	IAMS_20	IAMS_20	18 21 29.6
PWL	Port Wells	84.25	28	IAMS_20	IAMS_20	18 24 44.2
PWL	Port Wells	84.25	28	P	P	17 47 44.7 +0.1
KNK	Knik Glacier	84.35	28	IAMS_20	IAMS_20	18 20 48.7
KNK	Knik Glacier	84.35	28	P	P	17 47 45.3 +0.2
E21K	Killik River	84.43	20	P	P	17 47 46.3 +0.9
C21K	Knialade Rid	84.43	19	P	P	17 47 46.4 +1.0
MLY	Manley	84.45	24	IAMS_20	IAMS_20	18 20 34.0
MLY	Manley	84.45	24	P	P	17 47 46.1 +0.5
P23K	Montage Isan	84.47	29	IAMS_20	IAMS_20	18 22 18.8
P23K	Montage Isan	84.47	29	P	P	17 47 45.6 -0.1
H22K	Ishlantina Re	84.48	23	P	P	17 47 46.5 +0.8
AB31	Akbulak aray	84.59	320	IAMB	IAMB	17 47 59.8
AB31	Akbulak aray	84.59	320	IAMS_20	IAMS_20	17 47 59.8
B21K	Ikpikok River	84.67	19	P	P	17 47 47.4 +0.9
WAT1	Susitna Watana	84.71	26	P	P	17 47 46.5 -0.4
F22K	John River	84.73	21	P	P	17 47 48.2 +1.2
RND	Reindeer	84.74	26	IAMB	IAMB	17 47 47.7
RND	Reindeer	84.74	26	IAMS_20	IAMS_20	18 21 31.8
G22K	Bettles	84.77	22	P	P	17 47 47.5 +0.4
M23K	Glacier View	84.79	27	P	P	17 47 47.3 -0.1
MCK	McKinley	84.80	25	IAMB	IAMB	17 47 48.1
MCK	McKinley	84.80	25	P	P	17 47 46.7 -0.6
Q23K	Middleton Is	84.84	30	P	P	17 47 47.9 +0.3
GLI	Glacier Island	84.84	28	IAMB	IAMB	17 47 48.8
GLI	Glacier Island	84.84	28	IAMS_20	IAMS_20	18 20 21.7
GLI	Glacier Island	84.84	28	P	P	17 47 47.5 -0.1
SCM	Sheep Creek M	84.98	27	IAMS_20	IAMS_20	18 25 20.4
SCM	Sheep Creek M	84.98	27	P	P	17 47 48.4 0.0
NEA2	Nenana	85.00	24	P	P	17 47 47.8 -0.5
WAT6	Susitna Watana	85.00	26	P	P	17 47 48.3 -0.3
HIN	Hinchinbrook I	85.00	29	IAMB	IAMB	17 47 49.9
HIN	Hinchinbrook I	85.00	29	IAMS_20	IAMS_20	18 22 37.0
D22K	Ayikya River	85.03	20	P	P	17 47 49.5 +1.1
I23K	Minto, Yukon-K	85.04	24	IAMB	IAMB	17 47 50.1
I23K	Minto, Yukon-K	85.04	24	IAMS_20	IAMS_20	18 20 51.7
I23K	Minto, Yukon-K	85.04	24	P	P	17 47 48.8 +0.3
E22K	Anatuvuk Pass	85.07	21	P	P	17 47 49.5 +0.8
A22K	Sinclair Lake	85.10	18	P	P	17 47 48.2 +0.6
FID	Port Fidalgo	85.10	28			

24d 17h

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like MCARA, SCRC, SCRK, etc.

2019 JUN

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like I29M, I29M, P30M, etc.

1546

Table with columns for station ID, name, elevation, frequency, and other technical details. Includes stations like KIV, KIV, KLMMR, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like FUORN, TUE, ABTX, WMOK, WLF, ECH, JCT, BMRD, BRDY, SENIN, P3BA, BNI, CLF, APAC, CART, TORO, OTAV, BBAC, ITQB, APAC, LCBC, POPC, JAMC, YOTO, PLMC, CBOC, UREC, SJCC, FLOC, NIZA, GUYZ, ORTC, ZARC, SMRC, NORC, PRAC, SDDH, PTBC, UJRM, ROSC, CPUP, SPBC, LPAZ, MACC, BRJC, CARC, RASC, ITAB, PUMC, SDV, OBIP.

ISC 24 17:35:44.0±0.2, 18:75S;65.34E, h0km, mb4.2/15, mbmp3.7/6, ML3.7/1, Error ellipse: s-maj=23.5km az=60.0, N1E124.7, 17:45:02.2, 18:91S;0.08±6.3E;0.1, h10km, 1km, mb4.6/17, Error ellipse: s-maj=18.6km s-min=13.2km az=88.0

GCMT 24 17:35:46.0±0.4, 18:90S;0.05±6.5E;0.0±0.2, h2km, 1km, MW5.0/75, Moment Tensor Scale: s11, c13, s75, c103; Duration: 0 Moment tensor: Scale 1016Nm; Mrr-4.75; 3.4; Mss 1.90±.23; Mtt 2.85±.22; Mss-0.30; 4.4; Mss-1.25; 12; Mrr-1.0±.36; Best double couple: Mo 3.78000±.016; NP1 3.322.00000±.638.00000±.96.00000±. NP2: 0±.149.00000±.652.00000±.86.00000±. Principal axes: T 3.64800, P1g 7.00000, Azm 236.00000; N 1.06100; P1g3.00000; Azm27.00000; P -4.90800, P1g82.00000; Azm82.00000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

ISC 24 17:35:45.1±0.6, 18:85S;0.1±6.5E;0.1, h10km, n57, c135/44, mb4.3/20, MS4.4/7, Mauritius-Reunion region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ROCAM, RER, H0S1, H0S2, H0S3, ABPO, OPO, H04N2, H04N1, H04N3, PALK, LSZ, LBTB, PSI, TSUM, MAW, CMAR, TGy, BR131, BR131, BRTR, BRTR, SNA, SNA, KBZ, KIV, MDUB, AB31, ABKAR, QSPA, QSPA.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like QSPA, BVAR, MLR, ARTI, ARTI, BURAR, SONM, AKASG, AKBB, KIEV, MORC, MORC, STAL, STAL, KJAR, KJAR, FINES, FINES, ESDC, MJBB, MAJO, MJAR, MJAR, HNR, ARCES, GPCR, AOPR, ACRP, ULM, ULM, TXAR, TXAR.

ISC 24 17:43:33.7±3.4, 0:57N;98.66E, h0km, mb3.8/5, mbmp3.7/6, ML3.7/1, Error ellipse: s-maj=135.1km s-min=23.5km az=60.0

DJA 24 17:43:47.4±0.4, 1:1N;3.9°9E, h73km, 6km, M3.6/12, MLV3.6/12

ISC 24 17:43:46.3±0.9, 0:94N;0:07-98:95E;0:07, h86km, n15, c129/15, mb3.8/5, Northern Sumatra

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SBSI, SBSI, MNSI, MNSI, GSI, GSI, PPI, PPI, SISI, SISI, MLSI, MLSI, CMAR, CMAR, H0S2, H0S2, H0S3, H0S3, WRA, WRA, ASAR, ASAR, SONM, SONM, MKAR, MKAR, ZALV, ZALV.

ISC 24 17:48:54.2±1.0, 2:59S;138.44E, h0km, mb3.6/6, mbmp3.6/8, ML3.6/2, Error ellipse: s-maj=26.0km s-min=23.0km az=60.0

ISC 24 17:48:50.1±0.8, 2:65S;0.1;138:57E;0:09, h32km, n9, c1506/10, mb3.8/5, Riau Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like JAY, JAY, BATI, BATI, WRA, WRA, ASAR, ASAR, PETK, PETK, MKAR, MKAR, BVAR, BVAR, ILAR, ILAR, QSPA, QSPA, JAY, JAY, BATI, BATI, WRA, WRA, ASAR, ASAR, PETK, PETK, MKAR, MKAR, BVAR, BVAR, ILAR, ILAR, QSPA, QSPA.

ISC 24 17:49:32.5±0.6, 31:59N;69:99E, h0km, mb4.0/24, mbmp4.0/26, ML1.6/1, Error ellipse: s-maj=15.8km s-min=13.3km az=32.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ISC, KBL, KBL, NBL, NBL, JMU, JMU, JMU, JMU, BKNR, BKNR, BKNR, BKNR, DHRM, DHRM, DHRM, DHRM, SMLA, SMLA, SMLA, SMLA, SMLA, SMLA, KUDL, KUDL, KUDL, KUDL, NDI, NDI, NDI, NDI, AYAN, AYAN, DDI, DDI, DDI, DDI, SIMJ, SIMJ, UGON, UGON, KARAM, KARAM, DRK, DRK, BHJU, BHJU, BHJU, BHJU, JHNI, JHNI, JHNI, JHNI, ARSE, ARSE, BHPH, BHPH, BHPH, BHPH, NRDN, NRDN, NRDN, NRDN, NRN, NRN, NRN, NRN, AML, AML, EKS2, EKS2, KK31, KK31, KK31, KK31, KK31, KK31, KK31, KK31, AAK, AAK, AAK, AAK, AAK, AAK, BOOM, BOOM, BOOM, BOOM, TARG, TARG, TARG, TARG, KDJ, KDJ, KDJ, KDJ, CHMS, CHMS, CHMS, CHMS, TKM2, TKM2, TKM2, TKM2, PRZ, PRZ, PRZ, PRZ, WSAR, WSAR, PDGK, PDGK, EVN, EVN, HYB, HYB, OTUK, OTUK, MAKZ, MAKZ, MAKZ, MAKZ, MAKZ, MAKZ.

24d 18h

Table of astronomical observations for 24d 18h, listing station names (e.g., MK31, MKAR, LSA), station codes, and various parameters like time, position, and signal strength.

2019 JUN

Table of astronomical observations for 2019 JUN, listing station names (e.g., AK16, KARP, EZN), station codes, and various parameters like time, position, and signal strength.

1548

Table of astronomical observations for 1548, listing station names (e.g., BNX, RTZ, SONM), station codes, and various parameters like time, position, and signal strength.

ISN 24 17:58:18.4 0.4 34.85N:46.10E, h6km,4km, ML2.8
TEH 24 17:58:18.7 34.84N:46.13E, h7km,15km
ISC 24 17:58:19.3 34.90N:0.04:46.13E:0.03,h10km,n16,

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists station data for various codes like IDHR, KGSJ, IGHG, etc.

IDC 24 18:00:03.0 0.9 35.87S:103.82W, h0km, mb3.97,
mbtmp3.97, Error ellipse: s-maj=28.9km s-min=21.9km
az=66.0

ISC 24 18:00:04.3 0.8 35.9S:102.38W:0.2,h10km,n18,
057715,mb4.0/11,5C,Outbase of Easter Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Lists station data for various codes like PLCA, LPAZ, PPT, etc.

IDC 24 18:02:31.1 1.1 1.64N:127.01E, h0km, mb3.5/5,
mbtmp3.6/5, Error ellipse: s-maj=173.7km s-min=21.5km

az=66.0  
 DJA 24 18:02:42.70.9,2N4.4x12.7E, h113km, 10km, M3.5/11, mb3.6/3, MLV3.5/11  
 ISC 24 18:02:42.5.1.1, 1.1N, 0.109x127.4E:0.1, h100km, n10, c151/11, mb3.4/5, Halmahera

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
TNTI	Ternate	1.03	184	P	Pn	18 03 06.0	+2.7
SGSI	Sangihe	2.66	314	P	Pn	18 03 24.6	+0.9
SGSI				S	Sn	18 03 54.4	-1.0
KMSI	Cibinong	3.66	250	P	Pn	18 03 38.4	+1.3
SANI	Sanana	4.10	201	P	Pn	18 03 42.5	+0.5
MRSI	Marisa	5.65	256	P	Pn	18 04 05.1	+1.1
WRA	Warramunga Arr	22.66	163	P	Pn	18 07 34.3	-1.2
ASAR	Alice Springs	26.10	166	P	Pn	18 08 06.0	-1.1
STKA	Stevens Creek	36.10	159	P	Pn	18 09 34.1	-0.7
MKAR	Makanchi Array	59.52	326	P	Pn	18 12 34.8	-0.6
KURBB	Kurchatov Arra	63.72	328	P	Pn	18 13 05.0	+1.6

SSNC 24 18:03:30.0.1.4, 2.024Nx72.19W, h5km, 15km, MD3.2, ML2.2, MW2.3  
 SDD 24 18:03:31.6.2.2, 19.919Nx72.44W, h9km, 136km, MD3.2, ML2.4, MW2.7  
 OSPL 24 18:03:31.0.0.4, 20.30N:72.13W, h102km, 22km, ML2.4  
 ISC 24 18:03:31.6.1.5, 19.85N:0.07:72.42W:0.04, h10km, 12km, n19, c567/29, 7C-5D, Haiti region

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
MCDR	Montecristi	0.72	86	Op	ISC	18 03 45.2	+0.3
MCDR				eP	Pg	18 03 56.7	+0.6
MCDR				1eSg	Sb	18 03 57.9	
MCDR				IAML		18 03 59.3	
MCDR				comp=N, 216nm, 0.1s			
MCDR	Montecristi	0.72	86	eP	Pb	18 03 46.4	+0.2
MCDR				JeSg	Sb	18 03 56.6	+0.4
MCDR				IAML		18 03 59.3	
MCDR				comp=N, 216nm, 0.1s			
REDR	Restauracion	1.18	125	eP	Pb	18 03 48.2	-5.9
REDR				JeSg	Sb	18 03 59.9	-1.0
REDR				IAML		18 04 01.3	
REDR				comp=N, 257nm, 0.1s			
REDR				comp=E, 276nm, 0.1s			
REDR	Restauracion	1.18	125	eP	Pb	18 03 48.4	-5.8
REDR				JeSg	Sb	18 03 59.5	-1.0
REDR				IAML		18 04 01.3	
REDR				comp=N, 257nm, 0.1s			
SDDR	Pres de Saban	1.37	129	eP	Pb	18 03 56.4	-0.5
SDDR				eS	Sb	18 04 14.7	-0.3
SDDR				IAML		18 04 19.2	
SDDR				comp=N, 26nm, 0.3s			
SDDR				comp=N, 39nm, 0.2s			
SDDR	Pres de Saban	1.37	129	eP	Pb	18 03 57.0	+0.1
SDDR				eSg	Sg	18 04 16.4	+0.6
SDDR				IAML		18 04 19.1	
SDDR				comp=N, 26nm, 0.3s			
SDDR	Pres de Saban	1.37	129	eP	Pb	18 03 55.7	-1.2
SDDR				1eSg	Sb	18 04 13.5	-1.5
SDDR				IAML		18 04 19.1	
SDDR	Pres de Saban	1.37	129	iP	Pn	18 03 56.8	-0.1
SDDR				eS	Sn	18 04 15.6	+0.5
SDDR				IAML		18 04 21.5	
SDDR				comp=Z, 19nm, 0.2s			
JIDR	Jimani	1.45	158	eSg	Sg	18 04 19.1	+0.7
JIDR				IAML		18 04 42.4	
JIDR				comp=N, 61nm, 3.9s			
MASC	Masc	1.73	281	eP	Pn	18 04 01.7	-0.1
MASC				eS	Sb	18 04 25.4	0.0
MASC				IAML		18 04 26.8	
MASC				comp=N, 16nm, 0.3s			
MASC				comp=E, 14nm, 0.4s			
MASC	Masc	1.73	281	eP	Pn	18 04 02.1	+0.3
MASC				IAML		18 04 29.7	
MASC				comp=N, 15nm, 0.1s			
MASC				comp=N, 30nm, 1.9s			
MASC	Masc	1.73	281	eP	Pn	18 04 01.0	-0.8
MASC				IAML		18 04 31.6	
MASC				comp=N, 18nm, 0.6s			
MASC	Masc	1.73	281	iP	Pn	18 04 01.9	0.0
MASC				eS	Sb	18 04 25.0	-0.4
MASC				IAML		18 04 28.7	
MASC				comp=Z, 23nm, 1.5s			
QMBU	Quimbuelo	2.28	279	eP	Pn	18 04 08.7	-0.6
QMBU				eS	Sn	18 04 37.4	-0.1
QMBU				IAML		18 04 39.9	
QMBU				comp=N, 17nm, 0.2s			
QMBU	Quimbuelo	2.28	279	eP	Pn	18 04 08.9	-0.4
QMBU				IAML		18 04 44.4	
QMBU				comp=N, 19nm, 0.2s			
NMDO	Nuevo Mundo	2.51	287	eP	Pn	18 04 11.2	-1.3
NMDO				eS	Sn	18 04 43.0	-0.2
NMDO				IAML		18 04 45.2	
NMDO				comp=N, 7.2nm, 0.4s			
NMDO				comp=E, 4.3nm, 0.5s			
GTBY	Guantanamo Bay	2.54	272	eP	Pn	18 04 12.8	0.0
GTBY				eS	Sn	18 04 45.0	+1.2
GTBY				IAML		18 04 46.7	
GTBY				comp=E, 5.6nm, 0.3s			
GTBY	Guantanamo Bay	2.54	272	iP	Pn	18 04 12.8	0.0
GTBY				IAML		18 04 46.9	
RCC	Rio Carpintero	3.09	273	eP	Pn	18 04 20.2	-0.2
RCC				eS	Sn	18 04 58.2	+0.8
RCC				IAML		18 05 03.5	
RCC				comp=N, 8.8nm, 1.4s			

ICD 24 18:09:45.2.1.7, 3.01N:129.09E, h0km, mb3.7/6, mbmp3.7/6, Error ellipse: s-maj=84.5km s-min=-19.6km az=67.0  
 DJA 24 18:10:09.7.0.8, 2N7.7x12.8E, h164km, 6km, M3.8/6, MLV3.8/6

ISC 24 18:10:08.1.1.3, 2.5N:0.1x128.4E:0.2, h200km, n8, c128/8, mb3.5/5, Halmahera

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
SGSI	Sangihe	3.07	292	P	Pn	18 10 56.9	-1.7
KMSI	Cibinong	4.81	246	P	Pn	18 11 20.1	0.0
FITZ	Fitzroy Crossi	20.68	187	P	Pn	18 14 31.6	-1.2
WRA	Warramunga Arr	23.09	166	P	Pn	18 14 56.9	+0.4
CMAR	Chiang Mai Arr	32.89	301	P	Pn	18 16 25.5	+1.8
STKA	Stevens Creek	36.45	161	P	Pn	18 16 53.7	-0.2
MKAR	Makanchi Array	59.47	325	P	Pn	18 19 50.5	+0.4
KURBB	Kurchatov Arra	63.63	327	P	Pn	18 20 17.3	-0.5

ICD 24 18:10:26.1.0.7, 2.61S:138.47E, h0km, mb3.9/9, mbmp3.9/12, ML3.9/3, Error ellipse: s-maj=18.8km s-min=15.2km az=1.0  
 NEIC 24 18:10:29.2.1.7, 2.5S:0.1x138.49E:0.07, h10km, 1km, mb4.4/23, Error ellipse: s-maj=19.2km s-min=-12.2km az=171.0  
 DJA 24 18:10:30.2.0.7, 3S:4.1x13.9E, h14km, 7km, M4.2/8, mb4.4/7, MLV4.1/8  
 ISC 24 18:10:31.0.5.2, 73S:0.06x138.59E:0.06, h35km, n51, c193/54, mb4.2/20, 1C, Irian Jaya

Code	Station Name	Δ°	AZ°	Phase ID	ISC	Time	Res
						h m s	ISC
SMPI	Sarmi	0.75	9	Op	Pn	18 10 41.4	-3.8
GENI	Genyem	1.59	85	P	Pn	18 10 59.4	+2.7
JAY	Jayapura	2.13	84	Pn	Pn	18 11 06.5	+2.3
JAY				Lg	Lg	18 11 36.5	
JAY				comp=Z, 10nm, 0.3s, baz=276, slow=23, SNR=5.6			
JAY				67m, 0.4s			
JAY	Jayapura	2.13	84	P	Pn	18 11 06.0	+1.8
ASAR	Serui, Papua	2.50	290	P	Pn	18 11 08.7	-0.5
SRPI				S	Sn	18 11 39.0	+0.5
BAKI	Biak	2.91	302	P	Pn	18 11 15.2	+0.2
RKPI	Ransiki, Papua	4.57	285	P	Pn	18 11 38.4	+0.6
FAKI	Fak Fak	6.33	266	Pn	Pn	18 12 01.7	-0.3
SWI	Sorong	7.55	284	P	Pn	18 12 19.5	+0.7
COEN	Coen	12.04	158	Pn	Pn	18 12 22.0	+1.8
MTN	Manton Dam	12.46	116	Pn	Pn	18 13 29.5	+3.5
SOEI	Soe	15.84	243	Pn	Pn	18 14 12.5	+0.8
SOEI				Iamb	Iamb	18 14 32.6	
SOEI				comp=Z, 32nm, 1.0s			
SOEI	Soe	15.84	243	P	Pn	18 14 14.3	-0.9
KNRA	Kunurra	16.09	216	Pn	Pn	18 14 16.6	+1.8
WBO	Warramunga Arr	17.42	193	Pn	Pn	18 14 30.5	-1.0
WRB	Warramunga Arr	17.58	193	Pn	Pn	18 14 32.2	-1.2
WRB				Iamb	Iamb	18 14 42.0	
WRAB				comp=Z, 17nm, 1.0s			
WRAB	Tennant Creek	17.59	193	P	P	18 14 37.2	+2.8
WRAB				Iamb	Iamb	18 14 46.4	
WRAB				comp=Z, 18nm, 1.1s			
WRAB				comp=Z, 2.5nm, 0.8s			
WRAB				comp=Z, 2.1nm, 0.8s, baz=7.7, slow=23, SNR=4.3			
WRAB				comp=Z, 2.5nm, 0.8s			
FITZ	Fitzroy Crossi	19.86	219	P	Pn	18 15 00.8	-0.2
FITZ	Fitzroy Crossi	19.86	219	P	Pn	18 14 59.9	+0.6
FITZ				S	S	18 18 33.7	-7.4
FITZ				comp=Z, 2.9nm, 0.9s, baz=355, slow=9.7, SNR=3.0			
FITZ				comp=Z, 4.9nm, 1.2s			
AS31	Alice Springs	21.30	192	P	P	18 15 14.8	0.0
ASAR	Alice Springs	21.30	192	P	P	18 15 14.8	0.0
ASAR	Alice Springs	21.30	192	P	P	18 15 15.0	+0.1
ASAR				S	S	18 19 06.2	-3.5
ASAR				comp=Z, 2.2nm, 0.8s, baz=9.8, slow=17, SNR=5.1			
ASAR				comp=Z, 1.9nm, 0.6s			
CMAR	Chiang Mai Arr	44.34	300	P	Pn	18 18 38.5	+0.3
CMAR				comp=Z, 0.4nm, 0.3s, baz=128, slow=7.6, SNR=5.4			
CMAR				comp=Z, 0.4nm, 0.3s			
BNX	BinXian	49.27	350	P	Pn	18 19 18.8	+2.4
BNX				pmax	pmax	18 20 20.0	+0.4
BNX				comp=Z, 3.0nm, 0.4s			
PEAOB	Petropavlovsk	57.91	13	P	P	18 20 20.0	+0.4
PEAOB				Iamb	Iamb	18 20 59.3	
PEAOB				comp=Z, 12nm, 1.5s			
PETK							

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate. Includes stations like KONS Kongsvik, STOK Stokkvaagen, TERR Teriberka, etc.

SDD 24 18:28:11.8±2.7, 18.40N±68.12W, h192km±16km, MD3.7, ML2.8, MWV3.4

NEIC 24 18:28:11.7±1.4, 18.1N±0.4±68.23W±0.10, h169km±17km, ML2.7/24, Md3.1(B/RSPR), Error ellipse: s-maj=61.6km

RSRP 24 18:28:12.5, 18.35N±68.06W, h177km±3km, MD3.1/B

ISC 24 18:28:10.3±1.8, 18.2N±0.1±68.21W±0.04, h181km±13km, n51.1, ±15.9/70, 25C-5D, Mona Passage

Main table for 24d 18h section, listing station names, coordinates, and various parameters. Includes stations like HIDR Higüey Centro, IDE Isla Desecheo, AGPR Aguadilla, etc.

Table for 2019 JUN section, listing station names, coordinates, and various parameters. Includes stations like SDDR SDDR, SDDR SDDR, BATI Baumata, etc.

IDC 24 18:29:32.5±5.2, 6.70S±128.77E, h261km±50km, mb2.9/3, mbmp4.0/6, Error ellipse: s-maj=56.8km s-min=15.6km az=60.0

ISC 24 18:29:29.6±1.2, 6.80S±109.129°E±0.1, h250km±n7, c328/11, mb3.2/3, Banda Sea

Table for IDC 24 18:32:37.8±3.2, 32.31S±178.33W, h0km, mb3.8/2, mbmp3.9/3, ML3.0/1, Error ellipse: s-maj=77.8km

IDC 24 18:32:38.7±9.6, 30.70S±179.40W, h0km, mb3.4/2, mbmp3.4/2, Error ellipse: s-maj=410.1km

WEL 24 18:33:28.5±1.0, 33°S±6.5°E, h178W±1.6, h33km, M4.5/13, mB4.8/3, ML4.9/14, MLV4.6/13, Mw(mB)4.1, Error ellipse: s-maj=21.5km s-min=4.3km az=107.7, confirmed

IDC 24 18:33:29.1±1.9, 32°S±64.5°E, h178.59W, h0km, mb3.9/3, mbmp3.9/4, ML3.8/1, Error ellipse: s-maj=46.9km

ISC 24 18:33:29.3±1.4, 32.88S±108.177°E±0.2, h34km±n24, c1566/34, mb3.9/3, South of Kermadec Islands

Table for IDC 24 18:33:29.3±1.4, 32.88S±108.177°E±0.2, h34km±n24, c1566/34, mb3.9/3, South of Kermadec Islands. Lists station names and coordinates.

WRA Warramunga Arr 44.38 275 P 18 29 18.7

QSPA South Pole Qui 57.24 180 P 18 29 20.4

FINES FINESS Array B 147.51 339 PKPbc PKPbc 18 29 23.3

IDC 24 18:39:22.4±0.8, 2.63S±138.52E, h0km, mb3.7/9, mbmp3.8/13, ML3.8/4, Error ellipse: s-maj=19.1km

DJA 24 18:39:26.5±0.3, 3°S±14°E, h10km, M4.0/8, mb4.2/6, MLV3.9/8

ISC 24 18:39:26.8±0.7, 2.64S±138.71E±0.06, h32km±n21, c1509/22, mb3.7/9, Irian Jaya

Table for IDC 24 18:39:26.8±0.7, 2.64S±138.71E±0.06, h32km±n21, c1509/22, mb3.7/9, Irian Jaya. Lists station names and coordinates.

Table for 1550 section, listing station names, coordinates, and various parameters. Includes stations like SWI Sorong, BATI Baumata, WRA Warramunga Arr, etc.

CATAC 24 18:42:03.4±0.7, 13°N±3°E, h22km±4km, M3.7/19, MLV3.7/19, Error ellipse: s-maj=8.2km s-min=5.3km az=37.8, confirmed

SNET 24 18:42:06.0±1.9, 13.11N±89°37W, h42km, ML3.5

ISC 24 18:42:03.8±2.0, 13.00N±108.89°W±0.06, h28km±12km, n61.1, c9539/77, Off coast of central America

Main table for 1550 section, listing station names, coordinates, and various parameters. Includes stations like LALI Alcaldia de L, LALI Alcaldia de L, PANCS Universidad Ev, etc.

IDC 24 18:43:23.0±2.0, 7.31°S±177.67W, h0km, mb4.3/7, mbmp4.3/7, MS3.3/5, Error ellipse: s-maj=25.3km

NEIC 24 18:43:24.1±1.4, 31.1S±101.1°E±1.4, 31°S±101.1°E±1.4, 31°S±101.1°E±1.4, 31°S±101.1°E±1.4, h10km±2km, mb4.1/8, Error ellipse: s-maj=20.4km s-min=8.8km az=177.0

ISC 24 18:43:27.2±0.7, 31.18S±106.177°W±0.1, h27km±n44, c136/42, mb4.4/10, MS3.4/4, AD, Kermadec Islands

Table for IDC 24 18:43:27.2±0.7, 31.18S±106.177°W±0.1, h27km±n44, c136/42, mb4.4/10, MS3.4/4, AD, Kermadec Islands. Lists station names and coordinates.





24d 19h

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Lanzhou, Gaotai, Songino Array, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Kurchatov, Borovoye Array, etc.

1552

Table with columns: Code, Station Name, Az, Az', Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Kurchatov, Borovoye Array, etc.



24d 19h

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like TSUM Tsumeb, POGA Pongola, PB11 IPOC, etc.

2019 JUN

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like SDV comp=Z,1um,20.0s, SDV Santo Domingo, etc.

1554

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes entries like TAOE comp=Z,270nm,29.5s, TAOE Nuku Hiva Isla, etc.



24d 19h

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like P32M Atlin, SSE Sheshan, SSE Pelican, etc.

2019 JUN

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like GRNC Granite Creek, BARN Barnard Glacier, ISLE Juniper Island, etc.

1556

Table with columns: ID, Name, Value, Unit, Status, Date, Time, etc. Includes entries like G26K Porcupine River, K24K Donnelly Dome, J25K Salcha River, etc.



Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like Spurr Chakacha, Franklin Bluff, Iliana South, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like Holitna River, Cit Chita, Avarat Lake, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like Nome, Ussuriysk Ar., Arctic Creek, etc.

Code Station Name Az Az2 Phase ID Time Res
SAMI Samri 0.64 4 P Pb 19 26 15.3 -1.0
GPNY Genyem 1.50 88 P Pb 19 26 31.5 +0.9
JAY Jayapa 2.04 87 P Pb 19 26 37.7 +2.2

ISK 24 19:25:58.9, 1.6, 2.69S, 138.53E, h0km, mb3.3/2, mbmp3.5/5, ML3.6/3, Error ellipse: s-maj=31.8km s-min=17.1km az=164.0

JAY 24 19:25:04.0, 3.0, 7.3 S, 4.1 13.9E, h19km, 7km, M4.0/9, mb5.0/1, mb4.1/5, MLv4.0/9, MlW(m)B3.4/1

ISC 24 19:26:03.4, 0.9, 2.64S, 0.08, 138.67E, 0.06, h32km, n14, 1547.176, Irian Jaya

Code Station Name Az Az2 Phase ID Time Res
SAMI Samri 0.64 4 P Pb 19 26 15.3 -1.0
GPNY Genyem 1.50 88 P Pb 19 26 31.5 +0.9
JAY Jayapa 2.04 87 P Pb 19 26 37.7 +2.2

JAY 24 19:33:24.2, 39.81N-26.08E, h6km, ML2.6/18
AFAD 24 19:33:25.0, 39.79N-26.14E, h10km, 1km, ML2.5,
ATH 24 19:33:25.7, 39.77N-26.06E, h25km, 2km, ML2.3/5,

Manual Solution by S.Koutarakis First location: 2019/06/24 19:34:33, This location: 2019/06/24 19:42:36 ML Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 1 km

ISC 24 19:33:04.7, 0.8, 33.90N, 0.02, 26.09E, 0.02, h16km, 5km, n4, 0.58772, Turkey

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error. Includes stations like Bozcaada, Ezine, Canakkale, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like CANAKKALE, Bayr, anakkale-Gf, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like Lajitas Array, Urewera, Alice Springs, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MAKZ, ZALV, TIXI, VANDA, etc.



24d 21h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Washetta, Mont, Wichita Mounta, etc.

WEL 24 21:03:26.3±0.5, 38°S±3.17°E, h3km, 3km, M3.5/17, ML3.8/17, MLV3.5/17, Error ellipse: s-maj=4.0km s-min=2.8km az=178.8, confirmed

NOU 24 21:03:26.4, 37°94'S, 176°92'E, h5km, MLV3.0/27, North Island, New Zealand

ISC 24 21:03:26.2±0.9, 37°90'S±0.02±176°95'E±0.02, h6km, 8km, n103, c082/113, North Island

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Whale Island, Matata Watcher, etc.

2019 JUN

Table with columns: RAHZ, Station Name, Az, Phase ID, Time, Res. Includes stations like Aarahi, Puketiti, etc.

DJA 24 21:08:18.5±0.4, 3°S±6.13°E, h10km, M4.2/6, mb4.3/1, ML4.2/6, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Genyem, Jayapura, etc.

ISC 24 21:08:39.6±0.2, 6°S±2.66'S, 138°45'E, h0km, mb3.9/6, mbmp3.9/8, ML4.1/2, Error ellipse: s-maj=23.6km s-min=15.9km az=2.0

NEIC 24 21:08:42.1±9.2, 7°S±0.1±138°51'E±0.03, h10km, 1km, mb4.2/14, Error ellipse: s-maj=19.5km s-min=3.2km az=169.0

ISC 24 21:08:44.7±0.7, 2.72'S±0.09±138°52'E±0.08, h32km, n28, c080/28, mb4.1/10, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Jayapura, Warramunga Arr, etc.

WBO Warramunga Arr 17.41 193 Pn Pn 21 12 43.4 -1.9

WBO Warramunga Arr 17.57 193 Pn Pn 21 12 49.3 +1.2

WRB Tennant Creek 17.59 193 Pn Pn 21 12 45.7 -1.7

WRA Warramunga Arr 17.60 193 Pn Pn 21 12 48.7 +0.3

WRA Warramunga Arr 17.60 193 Pn Pn 21 12 46.9 -0.7

FITZ Fitzroy Crossi 19.83 219 P P 21 13 13.7 +0.8

AS31 Alice Springs 21.29 192 P P 21 13 28.3 -0.5

ASAR Alice Springs 21.30 192 P P 21 13 29.8 +0.8

ASAR Alice Springs 21.30 192 P P 21 13 28.9 +0.2

CMAR Chiang Mai Arr 44.28 300 P P 21 16 51.4 -0.4

MKAR Makanchi Array 69.69 322 P P 21 19 51.8 +0.5

MKAR Makanchi Array 69.69 322 P P 21 19 51.6 +0.3

MAKZ Makanchi 69.88 322 P P 21 19 52.5 +0.0

MAKZ Makanchi 69.88 322 P P 21 19 54.5 +0.0

L14K Kuka Creek 77.99 25 P P 21 20 39.9 +0.3

L14K Kuka Creek 77.99 25 P P 21 20 42.0 +0.0

M14K Bethel 78.01 26 P P 21 20 40.1 +0.4

BVAR Borovoye Array 79.22 325 P P 21 20 46.3 -0.3

G18K Tagagawik 81.70 22 P P 21 20 59.3 -0.4

G18K Tagagawik 81.70 22 P P 21 21 04.0 +0.0

L19K White Mountain 81.70 26 P P 21 21 00.1 +0.3

E18K Tukpahleark C 81.71 20 P P 21 21 00.1 +0.4

E18K Tukpahleark C 81.71 20 P P 21 21 05.9 +0.0

ILAR Eielson Array 85.92 24 P P 21 21 19.6 -1.7

QSPA South Pole Qui 87.22 180 P P 21 21 27.9 +0.1

QSPA South Pole Qui 87.22 180 P P 21 21 27.3 -0.5

BMAR Burtt Mountain 87.48 22 P P 21 21 29.5 +0.6

ISC 24 21:09:32.7±0.6, 2.63'S±138°53'E, h0km, mb4.2/12, mbmp4.2/15, ML4.4/3, Error ellipse: s-maj=16.7km s-min=14.3km az=30.0

NEIC 24 21:09:36.0±1.5, 2.43'S±0.10±138°53'E±0.06, h10km, 1km, mb4.6/44, Error ellipse: s-maj=16.5km s-min=10.9km az=176.0

ISC 24 21:09:38.2±0.5, 2.61'S±0.06±138°47'E±0.06, h32km, n72, c1948/74, mb4.5/33, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Jayapura, Warramunga Arr, etc.

1560

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Jayapura, Warramunga Arr, etc.

ISC 24 21:26:00.1±7.5, 10°24'N±125°73'E, h0km, mb3.7/4, mbmt3.7/4, Error ellipse: s-maj=207.4km s-min=151.8km az=74.0, Leyte

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Songino Array, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MKAR Makanchi Array, KURBS Kurchatov Arra, FINES FINESS Array B.

IDC 24 21:28:06.1+0.6,2.61S:138.60E,h0km,mb4.2/15, mbtmp4.2/19,ML4.0/4,MS3.5/2,Error ellipse: s-maj=14.4km s-min=13.7km az=58.0

NEIC 24 21:28:08.4+1.6,2.60S:0.09:138.65E:0.07,h10km,1km, mb4.5/30,Error ellipse: s-maj=14.9km s-min=11.5km az=166.0

DJA 24 21:28:10.3+0.6,2.5S:13.9E,h22km,7km,ML4.3/8, mb4.5/4,MLV4.2/8

ISC 24 21:28:11.0+0.5,2.67S:0.06:138.59E:0.05,h32km,n70, c080/70,mb4.4/31,Irian Jaya

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SMPJ Sarmi, GENEY Gennyem, JAY Jayapura.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JAY Jayapura, SRPI Serui, Papua.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BAKI Biak, RKPI Ransiki, Papua, FAKI Fak Fak.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like COEN Coen, MTN Manton Dam, KNRA Kununurra.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like DAV Davao City (W), BATI Baunata.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WBO Warramunga Arr, WRH Warramunga Arr, WRA Tennant Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like FITZ Fitzroy Crossi, FITZ Fitzroy Crossi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like AS31 Alice Springs, ASAR Alice Springs, ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ASAR Alice Springs, ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SKTA Stephens Creek, SKTA Stephens Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like NWAO Narrogin (SRO), NWAO Narrogin (SRO).

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KSRs Korea Arr, KSRs Korea Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CMAR Chiang Mai Arr, CMAR Chiang Mai Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like GTA Gaotai, GTA Gaotai.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SONM Songino Arr, SONM Songino Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PETK Petropavlovsk, PETK Petropavlovsk.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like YAK Yakuts, YAK Yakuts.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MKAR Makanchi Arr, MKAR Makanchi Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MAKZ Makanchi, MAKZ Makanchi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BOOM Boomskeye usch, BOOM Boomskeye usch.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KURBS Kurchatov Arr, KURBS Kurchatov Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TIXI Tiksi, TIXI Tiksi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like Vnda Vanda, Vnda Vanda.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like K13K Kusilivak Mout, K13K Kusilivak Mout.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like L14K Kuk Creek, L14K Kuk Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like K15K Wolf Creek Mou, K15K Wolf Creek Mou.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BVAR Borovoye Arr, BVAR Borovoye Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like M16K Timber Creek, M16K Timber Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ACHA Angle Creek He, ACHA Angle Creek He.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like OHAH Old Harbor, OHAH Old Harbor.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KDak Kodiak Island, KDak Kodiak Island.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like E18K Tukpahleark C, E18K Tukpahleark C.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like C18K Utukok River, C18K Utukok River.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like K20K Telida, K20K Telida.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like C19K Lookout Ridge, C19K Lookout Ridge.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like D19K Kuna River, D19K Kuna River.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like E22K Anaktuvuk Pass, E22K Anaktuvuk Pass.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CCB Clear Creek Bu, CCB Clear Creek Bu.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like IL31 Ilkiliik River, IL31 Ilkiliik River.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like QSPA South Pole Qui, QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BMAR Burt Mountain, F26K Sheenjek River, H27K Steamboat Moun.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TORP Torodi Arr, PB11 IPOC Station P, CPUP Villa Florida.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LPaz La Paz.

IDC 24 21:28:54.6+5.1,0,1536S:174.15W,h0km,mb4.2/3, mbtmp4.2/19,ML3.4/1,Error ellipse: s-maj=973.7km s-min=186.7km az=78.0,Tonga Islands

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ASAR Alice Springs, ASAR Alice Springs.

FUNW 24 21:30:23.9,7.32N:72.08W,h5km,MW3.1 RSNC 24 21:30:24.9,0.0,7.2N:2.7W,h-2km,3km,M2.1,ML1.9

ISC 24 21:30:24.9,0.0,7.2N:2.7W,h-2km,3km,M2.1,ML1.9 n15,c140/27,Venezuela

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CAPV Capacho, CAPV Capacho.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PAMC Pamplona, Colo, PAMC Pamplona, Colo.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TAME Tame, Arauca, TAME Tame, Arauca.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BARC Barichara, BARC Barichara, SOCV Socops.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like OCAC Ocana, OCAC Ocana.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like RUSC La Rusia, RUSC La Rusia.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BRUC Barrancabermej, BRUC Barrancabermej.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SDV Santo Domingo, SDV Santo Domingo.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PUERTO BERRIO, PUERTO BERRIO.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ZARCO Zaragoza, Cauc, ZARCO Zaragoza, Cauc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BAUV EI Baul, BAUV EI Baul.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MAPV Macapo, MAPV Macapo.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BENV Beln, BENV Beln.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CACV CAICARA DEL OR, CACV CAICARA DEL OR.

IDC 24 21:30:57.0+1.1,1.44S:69.30E,h0km,mb4.0/10, mbtmp4.0/11,ML4.4/1,Error ellipse: s-maj=36.1km

NEIC 24 21:31:01.0+2.1,1.45S:0.09:69.53E:0.04,h10km,1km, mb4.3/6,Error ellipse: s-maj=14.7km s-min=7.5km az=172.0

ISC 24 21:30:59.6+0.7,1.40S:0.08:69.4E:0.1,h11km,n28, c086/28,mb4.2/12,Carlsberg Ridge

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KAAM Kaadhehdoo, KAAM Kaadhehdoo.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like H08S3 Diego Garcia H, H08S3 Diego Garcia H.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like H08S1 Diego Garcia H, H08S1 Diego Garcia H.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like H08S2 Diego Garcia H, H08S2 Diego Garcia H.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like HMDM Hanimaadho, HMDM Hanimaadho.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PALK Pallekele, PALK Pallekele.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CMAR Chiang Mai Arr, CMAR Chiang Mai Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LSZ Lusaka, LSZ Lusaka.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MKAR Makanchi Arr, MKAR Makanchi Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like AB31 Akbulak array, AB31 Akbulak array.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ABKAR Akbulak array, ABKAR Akbulak array.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KURBS Kurchatov Arr, KURBS Kurchatov Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ZALV Zalesovo Beam, ZALV Zalesovo Beam.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SONM Songino Arr, SONM Songino Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like FINES FINESS Array B, FINES FINESS Array B.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ARCES ARCES Array B, ARCES ARCES Array B.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TIXI Tiksi, TIXI Tiksi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like QSPA South Pole Qui, QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like QSPA South Pole Qui, QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JAY Jayapura, JAY Jayapura.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SRPI Serui, Papua, SRPI Serui, Papua.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BAKI Biak, BAKI Biak.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like RKPI Ransiki, Papua, RKPI Ransiki, Papua.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like FAKI Fak Fak, FAKI Fak Fak.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SWI Sorong, SWI Sorong.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like COEN Coen, COEN Coen.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KNRA Kununurra, KNRA Kununurra.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BATI Baunata, BATI Baunata.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WBO Warramunga Arr, WBO Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WRH Warramunga Arr, WRH Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like FITZ Fitzroy Crossi, FITZ Fitzroy Crossi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like AS31 Alice Springs, AS31 Alice Springs.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JOW Kunigami, JOW Kunigami.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KSRs Korea Arr, KSRs Korea Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CMAR Chiang Mai Arr, CMAR Chiang Mai Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like USRK USSuriysk Arr, USRK USSuriysk Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BNK BinXian, BNK BinXian.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KLR Kul'dur, KLR Kul'dur.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SONM Songino Arr, SONM Songino Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MKAR Makanchi Arr, MKAR Makanchi Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ZALV Zalesovo Beam, ZALV Zalesovo Beam.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KURBS Kurchatov Arr, KURBS Kurchatov Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TIXI Tiksi, TIXI Tiksi.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like Vnda Vanda, Vnda Vanda.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like L14K Kuk Creek, L14K Kuk Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BVAR Borovoye Arr, BVAR Borovoye Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KDAK Kodiak Island, KDAK Kodiak Island.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like E19K Redstone River, E19K Redstone River.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like DHY Denali Highway, DHY Denali Highway.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ILAR Eielson Array, ILAR Eielson Array.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like QSPA South Pole Qui, QSPA South Pole Qui.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like J26L Joseph Creek, J26L Joseph Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BMAR Burt Mountain, BMAR Burt Mountain.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like I28M Miner Creek, I28M Miner Creek.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KIRV Kirov, KIRV Kirov.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PB11 IPOC Station P, PB11 IPOC Station P.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CPUP Villa Florida, CPUP Villa Florida.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LPaz La Paz, LPaz La Paz.

IDC 24 21:51:59.9+2.0,13.97N:93.16E,h0km,mb3.4/3, mbtmp3.4/4,ML3.2/1,Error ellipse: s-maj=45.6km s-min=27.9km az=72.0,Andaman Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like CMAR Chiang Mai Arr, CMAR Chiang Mai Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MKAR Makanchi Arr, MKAR Makanchi Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like ASAR Alice Springs, ASAR Alice Springs.

DJA 24 21:54:26.1+0.4,9.54S:111.6E,h10km,M3.9/11,mb4.2/3, MLV3.7/11,South of Bali

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like SRBI Singaraja, SRBI Singaraja.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like JAGI Jajag, Banyuwa, JAGI Jajag, Banyuwa.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PLAI Plampang, PLAI Plampang.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like GUMUK Gumukmas, GUMUK Gumukmas.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KMMI Kalianget, KMMI Kalianget.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like WBSI Waikabubak, Su, WBSI Waikabubak, Su.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like PCJI Paicatan, PCJI Paicatan.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like BSSI Bau Bata, BSSI Bau Bata.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like EDFI Ende, Fufon, EDFI Ende, Fufon.

IDC 24 21:57:52.7+1.4,2.55S:138.51E,h0km,mb3.3/3, mbtmp3.3/5,ML3.3/2,Error ellipse: s-maj=28.8km s-min=18.0km az=174.0

DJA 24 21:57:57.1+0.9,2.5S:13.9E,h21km,9km,M3.2/6,







Table with columns for station name, frequency, power, and other technical details. Includes stations like YSS, HHC, URZ, TUWZ, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like SATY, KSH, KDJ, TDK, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like N16K, G15K, BRVK, etc.

1565

C19K	Lookout Ridge	82.81	19	P	P	22 52 09.7 +0.8
E19K	Redstone River	82.87	20	I	I	22 52 12.9
E19K	Redstone River	82.87	20	P	P	22 52 09.3 +0.2
A19K	Wainwright	82.88	17	P	P	22 52 09.4 +0.4
H20K	Anotleneega Mo	82.93	23	P	P	22 52 09.7 +0.2
D19K	Kuna River	83.01	19	P	P	22 52 09.9 0.0
SKT	Skvetina	83.07	27	P	P	22 52 10.1 -0.2
PPLA	Purkeypile	83.09	26	P	P	22 52 09.2 -1.3
PPLA	Purkeypile	83.09	26	P	P	22 52 10.5 0.0
F20K	Avaraart Lake	83.23	21	I	I	22 52 16.2
F20K	Avaraart Lake	83.23	21	P	P	22 52 11.5 +0.5
SUA	Susitna One	83.26	27	P	P	22 52 10.7 -0.7
CAST	Castle Rocks	83.31	25	P	P	22 52 11.1 -0.4
SEW	Seward	83.45	29	P	P	22 52 12.1 -0.1
IMAR	Indian Mountai	83.55	22	P	P	22 52 12.0 -0.7
E20K	Nigu River	83.56	20	P	P	22 52 12.9 +0.1
R20K	Etvuk River	83.61	19	P	P	22 52 13.1 +0.2
D01K	Rabbit Creek A	83.61	28	P	P	22 52 12.4 -0.6
M22K	Willow	83.63	27	P	P	22 52 13.3 +0.1
H21K	Melozitna Rive	83.80	23	I	I	22 52 17.7
H21K	Melozitna Rive	83.80	23	P	P	22 52 14.0 0.0
G21K	Allakaket	83.84	22	P	P	22 52 13.9 -0.2
KTH	Kantishna Hill	83.85	25	I	I	22 52 17.7
B20K	Mesado River	83.98	18	P	P	22 52 15.2 +0.4
BPAW	Bear Paw Mtn.	84.00	25	P	P	22 52 15.5 +0.5
BPAW	Bear Paw Mtn.	84.00	25	P	P	22 52 15.0 0.0
PMR	Palmer	84.04	27	P	P	22 52 14.1 -1.1
PMR	Palmer	84.04	27	P	P	22 52 14.1 -1.1
PMR	Palmer	84.04	27	P	P	22 52 14.8 -0.4
TRF	Thorofare Moun	84.09	25	I	I	22 52 48.0
TRF	Thorofare Moun	84.09	25	P	P	22 52 15.1 -0.6
F21K	Alatina River	84.11	21	P	P	22 52 16.1 +0.5
F21K	Alatina River	84.11	21	P	P	22 52 15.1 -0.4
PWL	Port Wells	84.20	28	P	P	22 52 15.4 -0.7
KNK	Knik Glacier	84.28	28	P	P	22 52 16.2 -0.4
E21K	Kilik River	84.39	20	P	P	22 52 16.5 -0.5
E21K	Kilik River	84.39	20	P	P	22 52 19.6
E21K	Kilik River	84.39	20	P	P	22 52 16.7 -0.3
C21K	Knifblade Rid	84.39	19	P	P	22 52 17.1 +0.1
MLY	Manley	84.40	24	I	I	22 52 21.3
MLY	Manley	84.40	24	P	P	22 52 16.7 -0.4
P23K	Montague Islan	84.41	29	P	P	22 52 17.1 -0.1
P23K	Montague Islan	84.41	29	P	P	22 52 16.9 -0.3
H22K	Ishlatitna Cre	84.43	23	P	P	22 52 16.7 -0.5
B21K	Ikpikpuk River	84.63	19	I	I	22 52 21.6
B21K	Ikpikpuk River	84.63	19	P	P	22 52 17.8 -0.3
ABKAR	Akbulak array	84.64	320	P	P	22 52 16.9 -1.6
WAT1	Susitna Watana	84.65	26	P	P	22 52 18.1 -0.3
BWN	Browne	84.66	25	P	P	22 52 18.8 +0.4
F22K	John River	84.68	21	P	P	22 52 18.4 0.0
G22K	Bettles	84.73	22	P	P	22 52 18.5 -0.1
M23K	Glacier View	84.74	27	P	P	22 52 18.4 -0.5
MCK	McKinley	84.75	25	P	P	22 52 18.3 -0.6
Q23K	Middleton Isla	84.78	30	P	P	22 52 18.9 -0.1
GLI	Glacier Island	84.79	28	P	P	22 52 18.6 -0.4
SCM	Sheep Creek Mo	84.93	27	P	P	22 52 19.5 -0.4
WAT6	Susitna Watana	84.94	26	P	P	22 52 19.4 -0.6
NEA2	Nenana	84.94	24	I	I	22 52 23.6
NEA2	Nenana	84.94	24	P	P	22 52 19.2 -0.6
D22K	Aiyikyak River	84.99	20	I	I	22 52 23.8
D22K	Aiyikyak River	84.99	20	P	P	22 52 19.4 -0.5
I23K	Minto, Yukon-K	84.99	24	P	P	22 52 19.9 0.0
E22K	Anaktuvuk Pass	85.03	21	I	I	22 52 24.5
E22K	Anaktuvuk Pass	85.03	21	P	P	22 52 19.9 -0.3
F20K	Port Fidalgo	85.05	28	I	I	22 52 27.6
H23K	Yukon River	85.12	23	P	P	22 52 20.2 -0.5
H23K	Yukon River	85.12	23	I	I	22 52 24.2
H23K	Yukon River	85.12	23	P	P	22 52 20.5 -0.2
G23K	Bananza Creek	85.21	22	P	P	22 52 21.5 +0.3
DHY	Denali Highway	85.24	26	P	P	22 52 20.7 -0.8
B22K	Teshhepkuk Lake	85.28	18	P	P	22 52 20.9 -0.4
COLD	Coldfoot	85.31	22	P	P	22 52 21.8 +0.3
COLD	Coldfoot	85.31	22	P	P	22 52 21.4 -0.2
EYAK	Cordova Ski Ar	85.34	29	P	P	22 52 21.2 -0.6
DIV	Divide	85.47	28	P	P	22 52 22.1 -0.5
CCB	Clear Creek Bu	85.48	24	I	I	22 52 26.1
KLU	Klutina	85.49	28	P	P	22 52 22.2 -0.5
KLU	Klutina	85.49	28	P	P	22 52 34.1
M24K	Tolsona, Glenn	85.53	27	P	P	22 52 22.1 -0.7
M24K	Tolsona, Glenn	85.53	27	P	P	22 54 31.0
M24K	Tolsona, Glenn	85.53	27	P	P	22 52 22.3 -0.5
D23K	Nanushuk River	85.70	20	P	P	22 52 23.2 -0.3
D23K	Nanushuk River	85.70	20	P	P	22 52 24.0 +0.5
HDA	Harding Lake	85.78	25	I	I	22 52 27.4
HDA	Harding Lake	85.78	25	P	P	22 52 24.2 +0.3
E23K	Chandler	85.78	21	P	P	22 52 24.3 +0.3
H24K	Noodor Dome	85.78	23	P	P	22 52 23.9 -0.1
H24K	Noodor Dome	85.78	23	P	P	22 52 23.8 -0.3
RAGM	Ragged Mountai	85.83	29	P	P	22 52 24.2 -0.2

2019 JUN

RAGM	Kayak Island	85.85	29	P	P	22 52 27.3
KAIM	Kayak Island	85.85	29	P	P	22 52 24.3 -0.1
IL31	Eielson Array	85.90	24	I	I	22 52 27.7
ILAR	Eielson Array	85.90	24	P	P	22 52 22.8 -1.8
ILAR	Eielson Array	85.90	24	P	P	22 52 23.0 -1.5
ILAR	Eielson Array	85.90	24	P	P	22 52 23.0 -1.5
TOLK	Toolik Lake Re	85.98	20	P	P	22 52 25.1 +0.1
BMRM	Bremner River	85.99	28	P	P	22 52 24.4 -0.8
BMRM	Bremner River	85.99	28	I	I	22 52 27.2
BMRM	Bremner River	85.99	28	P	P	22 52 25.2 0.0
C23K	Itkillik River	86.01	19	P	P	22 52 24.9 -0.1
C23K	Itkillik River	86.01	19	P	P	22 52 25.1 +0.1
HMT	Hamilton	86.02	29	I	I	22 52 26.2
PAX	Paxson	86.05	26	P	P	22 52 25.3 -0.2
HARP	HAARP	86.06	27	P	P	22 52 25.4 0.0
K24K	Donnelly Dome	86.12	26	P	P	22 52 26.0 +0.3
K24K	Donnelly Dome	86.12	26	I	I	22 52 32.9
K24K	Donnelly Dome	86.12	26	P	P	22 52 25.6 -0.1
N25K	Chitina, Valde	86.13	28	P	P	22 52 26.1 +0.2
N25K	Chitina, Valde	86.13	28	I	I	22 52 28.3
N25K	Chitina, Valde	86.13	28	P	P	22 52 25.8 -0.1
G24K	Hadweznic Riv	86.18	23	I	I	22 52 30.2
G24K	Hadweznic Riv	86.18	23	P	P	22 52 25.9 0.0
E24K	Your Creek	86.19	21	P	P	22 52 25.5 -0.5
E24K	Your Creek	86.19	21	I	I	22 52 41.2
E24K	Your Creek	86.19	21	P	P	22 52 26.1 +0.1
F24K	Squaw Lake	86.25	22	I	I	22 52 30.2
F24K	Squaw Lake	86.25	22	P	P	22 52 26.7 +0.4
BERG	Berg Lake	86.26	29	P	P	22 52 26.5 -0.1
BERG	Berg Lake	86.26	29	I	I	22 52 36.6
D24K	Happy Valley	86.39	20	P	P	22 52 27.2 +0.3
D24K	Happy Valley	86.39	20	P	P	22 52 27.3 +0.3
BGLC	Bering Glacier	86.45	29	P	P	22 52 27.6 +0.3
GLB	Gilshina Butte	86.47	28	P	P	22 52 27.3 -0.2
J25K	Salcha River	86.49	25	P	P	22 52 27.5 0.0
J25K	Salcha River	86.49	25	P	P	22 52 27.5 0.0
RIDI	Indepndent Ri	86.51	26	P	P	22 52 27.5 -0.1
VRDI	Verde Repeater	86.59	28	P	P	22 52 27.6 -0.6
C24K	Franklin Bluff	86.60	19	P	P	22 52 28.0 +0.1
PRP	Porcupine Dome	86.64	24	P	P	22 52 28.7 +0.3
CRQ	Cirque	86.67	29	P	P	22 52 28.6 0.0
H25L	Birch Creek	86.71	23	P	P	22 52 28.7 +0.2
G25K	Bearman Lake	86.72	23	P	P	22 52 28.8 +0.3
WAX	Waxell Ridge	86.72	29	I	I	22 52 29.0 +0.2
WAX	Waxell Ridge	86.72	29	I	I	22 52 38.4
TGL	Tana Glacier	86.79	29	P	P	22 52 29.5 +0.3
TGL	Tana Glacier	86.79	29	I	I	22 52 42.3
ARTI	Arti	86.82	327	LR	LR	23 34 09.7
ARTI	Arti	86.82	327	C	P	22 52 28.3 -0.9
ARTI	Arti	86.82	327	C	P	22 55 46.9
ARTI	Arti	86.82	327	C	P	23 02 53.9 -2.3
DOT	Dot Lake	86.83	26	P	P	22 52 29.1 -0.1
SCRK	Sand Creek	86.93	26	P	P	22 52 29.6 -0.3
ISLE	Juniper Island	87.00	29	P	P	22 52 30.2 0.0
ISLE	Juniper Island	87.00	29	I	I	22 52 42.8
L26K	Log Cabin Wild	87.01	27	I	I	22 52 33.1
L26K	Log Cabin Wild	87.01	27	P	P	22 52 29.8 -0.3
FYU	Fort Yukon	87.01	23	P	P	22 52 29.8 -0.1
M26K	Nabesna, AK	87.04	27	P	P	22 52 29.3 -1.0
M26K	Nabesna, AK	87.04	27	P	P	22 52 30.3 0.0
F25K	Christian River	87.10	22	I	I	22 52 30.2 -0.2
F25K	Christian River	87.10	22	I	I	22 52 42.3
F25K	Christian River	87.10	22	P	P	22 52 30.5 0.0
MESA	MESA	87.11	29	P	P	22 52 30.9 0.0
J26L	Joseph Creek	87.22	25	P	P	22 52 31.1 -0.1
QSPA	South Pole Qui	87.23	180	P	P	22 52 32.1 +0.9
QSPA	South Pole Qui	87.23	180	I	I	22 52 41.9
QSPA	South Pole Qui	87.23	180	P	P	22 52 31.1 -0.1
QSPA	South Pole Qui	87.23	180	LR	LR	23 31 46.8
YAH	Yahtse	87.25	29	P	P	22 52 31.9 +0.3
E25K	Arctic Village	87.26	21	P	P	22 52 31.6 +0.4
E25K	Arctic Village	87.26	21	P	P	22 52 31.4 +0.2
D25K	Kav River	87.28	20	P	P	22 52 31.4 +0.1
GRNC	Granite Creek	87.31	29	P	P	22 52 31.2 -0.7
GRNC	Granite Creek	87.31	29	I	I	

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like MNK, MINSK, TXAR, P38A, HMBC, PB11, etc.

GCG 24 22:49:34.7±1.7, 1.75:45N:92.95W, h99km±23km, MD3.7, ML3.2

MEX 24 22:49:35.2±1.0, 15.39N:93.01W, h105km±10km, MD3.8

ISC 24 22:49:29.2±2.0, 15.30N:0.07-92.97W, 0.06, h139km±14km, n12, c2556/23, Mexico-Guatemala border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like PCIG, PATR, PAVE, THIG, CCIG, RTAL, TGIG, STG8, etc.

JMA 24 22:58:59.5±0.1, 23.8N:0.6:122.9E, h051km, MV1.6/8, NEAR ISHIGAKI/JMA ISLAND, Taiwan region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like JYNG, YOJ, HATJ, etc.

TAP 24 22:59:40.6, 24.23N:120.91E, h27km, ML2.7, A, Taiwan

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like WHP, TWQ1, WCS, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like LIOB, Wufeng Townshi, WJS, etc.

ISC 24 23:21:24.4±1.7, 2.71S:138.58E, h0km, mb3.3/2, mbmp3.4/4, ML3.6/2, Error ellipse: s-maj=32.2km

DJA 24 23:21:27.1±1.0, 2.6S:138.6E, h16km±11km, M3.8/6, mb4.2/2, MLV3.6/6

ISC 24 23:21:27.2±1.0, 2.6S:138.6E:0.08, h32km, n9, c1553/9, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like SMPI, GENPI, JAY, etc.

ISC 24 23:20:6.4±5, 18.55S:178.26W, h617km±24km, mb3.1/4, mbmp4.1/5, Error ellipse: s-maj=123.6km s-min=37.3km

NEIC 24 23:27:21.0±2.1, 18.7S:0.1:178.4W:0.1, h606km±12km, mb4.0/1.1, Error ellipse: s-maj=23.6km s-min=13.2km

ISC 24 23:27:19.0±0.8, 18.5S:0.1:178.3W:0.01, h600km, n21, c1524/21, mb4.0/1, Fiji Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like MSFV, NIUE, HNR, etc.

comp=2.0,3nm,0.6s,baz=90,slow=2.9,SNR=2.0

MMAI Mount Meron Arr 146.54 302 PKPbc PKPbc 23 55 54.5 -0.6

DJA 24 23:47:04.0±0.5, 6.1S:4.12E, h265km±12km, M4.5/13, mb5.0/5, mb4.5/6, MLV4.6/13, M4.5/13, NEIC 24 23:47:05.7±2.5, 6.36S:0.05:129.19E:0.09, h210km±17km, mb4.3/4, Error ellipse: s-maj=13.9km s-min=6.1km

az=104.0

ISC 24 23:47:07.2±4.7, 6.47S:129.13E, h223km±45km, mb3.0/4, mbmp4.0/8, Error ellipse: s-maj=60.6km s-min=19.6km

az=63.0

ISC 24 23:47:05.9±0.6, 6.48S:0.05:129.26E:0.06, h223km, n43, c232/50, mb3.2/4, Banda Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, h m s, ISC. Includes stations like BNDI, SAUI, SAUI, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like ASAR Alice Springs, MBWA Marbril, MJAR Matsushiro Arr, KLR Kul'du, SONMI Songoing Arr, MKAR Makanchi Array, MAZK Makanchi, KURBB Kurchatov Arr, VNSA Vanda, BVAR Borovoye Array, ILAR Eielson Array, QGSA South Pole Qui, J26L Joseph Creek, BMAR Burnt Mountain, LPAZ La Paz.

CATAC 25 00:08:18.2-0.8, 11°N, 4°W, h15km, 10km, M3, 7/24, MLV3, 7/24, Error ellipse: s-maj=9.4km s-min=7.7km

UCR 25 00:08:34.6-0.5, 10°9'N, 86°23'W, h16km, 5km, MW4.0, ISC 25 00:08:17.2-0.1, 11°05'N, 07°07.04'W, h10km, n39, o65/43, 9C-2D, Near coast of Nicaragua

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like CRUN El Crucero, COPEN Copaltepe, NADN Granada, SABS Sabanita, NANN Nandasmo, SAPS Ciudad Sandino, MAS3 AI N del Volca, UNAN Cigeo UNAN, TISN Laguna Tiscapa, MGAN Managua, R4DEC Barrio San Lui, APQ3 Volcan Apoyequ, WILN Americas 2, JAPAN AI SSO del Vol, MOMM Momotombo, MORN AI O del Volca, CNGA AI SSO del Vol, CNGN Cerro Negro, MOM2 El Cardon, CARN Rivas, ILCN San Idelfonso, POLN AI Sur del Vol, PKGN Cerro Peking, CRIN San Cristobal, MESS Mesas, BOAB BOACO BROADBAN, POTN Potosi Ciguigi, INVE Universidad In, MATN Matagalpa, JTS Las Juntas de, ARE1 Arenal 1, VARE2 V. Arenal, CEDE Laguna Cedeo, RCPN Sur Rio San Ju.

NEIC 25 00:24:17.0-0.9, 56°05.0'1:27.9W, 0.2, h107km, 9km, mb4.6/8, Error ellipse: s-maj=22.3km s-min=15.0km

IDC 25 00:24:18.6-6.9, 55°96S:27°83W, h128km, 62km, mb4.0/7, mbmp4.5/8, Error ellipse: s-maj=25.5km s-min=19.2km

ISC 25 00:24:17.8-0.6, 56°05.0'1:28.04W, 0.09, h121km, n26, o89/27, mb4.7/7, SD, South Sandwich Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like HOPE Hope Point, VNA1 Neumayer-Stat, VNA3 Neumayer Olymp, VNA2 Neumayer-Watz, SNA4 Sanae, BELA Belgrano 2, MG02 Cerro Sombrero, ISLA Isla Riesco, TRQA Torququist, GQSA South Pole Qui, MAW Mawson, BOSA Boshof, VNSA Vanda, LPAZ La Paz, DBIC Dimbokro, TORD Torodi Arr, TORD Torodi Bea, FINES FINESS Array B, ARCES ARCESS Array B.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like ILAR Eielson Array, SONMI Songoing Arr, IDC 25 00:26:12.3-1.0, 2°76S: 138°69E, h0km, mb3.7/5, mbmp3.7/8, ML3.8/2, MS2.9/3, Error ellipse: s-maj=30.4km s-min=22.8km az=108.0, ISC 25 00:26:13.3-0.9, 2°85.0'1:138.72E:0°08, h10km, n10, r1513/9, mb3.8/5, Irian Jaya, JAY Jayapura, KRVT Keravat, WRA Warramunga Arr, FITZ Fitzroy Crossi, ASAR Alice Springs, MKAR Makanchi Array, KURBB Kurchatov Arr, BVAR Borovoye Array, KDAK Kodiak Island, ILAR Eielson Array, ILAR Irian Jaya.

WEL 25-20:28:06.0-1.4, 34°S:24°18'0E:2.2, h292km, 35km, M4.0/7, mb5.1/1, ML4.4/12, MLV4.0/7, Mw(MB)4.4/1, Error ellipse: s-maj=35.1km s-min=23.7km az=139.0, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like WMGZ Waionmatati S, HAZ Te Kaha, PKGZ Pakihiora, PUKZ Pukititi, RUGZ Raukumara Rang, TWGZ Tauwhareparae, MWZ Matawai, TKGZ Te Karaka, URZ Urewera, URZ Rawiri, MKAZ Moumakai, RIGZ Rimutahi, MUGZ Murupara, MTGZ Maungataniwha, TLZ Tolley Road, NMHZ Naumai, BKZ Black Stump Fm, HZ Hautau, KWHZ Kaweka Forest, NTVZ North Tongariri, TMVZ Te Maari, ETVZ East Tongariri, TWVZ Taurewa, SNVZ South Ngauruhoe, KAHZ Kahurangi, FVWZ Far West T-bar, MWVZ Matarangiri, WHVZ Whangapehu Hut, KRHZ Kereru, WNHZ Wahianoa, PKVZ Pokaka, PXVZ Pawanui, PHVZ Pukerangi, PRVZ Porangahau, DRVZ Doranveitke.

IDC 25 00:29:06.4-0.7, 2°69S: 138°57E, h0km, mb4.0/9, mbmp4.1/12, ML4.0/2, MS3.5/2, Error ellipse: s-maj=26.4km s-min=17.6km az=88.0

NEIC 25 00:29:09.5-1.6, 2°75S:0'1:138.61E:0°08, h22km, 6km, mb4.3/15, Error ellipse: s-maj=16.3km s-min=9.3km

ISC 25 00:28:08.0-0.6, 2°75S:0°09:138.56E:0°08, h10km, n35, r1513/36, mb4.2/12, Irian Jaya

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like JAY Jayapura, FAKI Fak, COEN Coen, MINT Mantion Dam, KNRA Kununurra, WBO Warramunga Arr, WRD Warramunga Arr, WFR Warramunga Arr, WBR Warramunga Arr, WB2 Warramunga Arr, WRA Warramunga Arr, FITZ Fitzroy Crossi, ASAR Alice Springs, PSAA0 Pilibara Seismi, MRNZ Mananki Terra, PETK Petrovlovsk, MKAR Makanchi Array, ZALV Zalesovo Beam, KURBB Kurchatov Arr.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like VNSA Vanda, VNSA Vanda, VNSA Vanda, BVAR Borovoye Array, ILAR Eielson Array, F24K Squaw Lake, QGSA South Pole Qui, QGSA South Pole Qui, J26L Joseph Creek, BMAR Burnt Mountain, H27K Steamboat Moun, I28M Miner Creek, HYT Haines Junctio, CPUP Villa Florida, LPAZ La Paz.

IDC 25 00:32:25.8-2.0, 30°66S:177°24W, h0km, mb3.6/2, mbmt3.6/2, Error ellipse: s-maj=49.0km s-min=30.0km az=87.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like RAO Raoul Island, RAO Raoul Island, ASAR Alice Springs, WRA Warramunga Arr, FINES FINESS Array B, HFS Hagfjord.

UCR 25 00:38:48.4-0.8, 7°85N:82°98W, h14km, 7km, MW3.7, ISC 25 00:38:49.5-0.8, 7°95N:82°96W, h14km, 3km, MW3.8, ISC 25 00:38:48.5-2.2, 7°90N:0°09:82.98W:0°05, h16km, 11km, n33, o49/47, 2C-3D, South of Panama

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like LMNES Limones, LESP3 La Esperanza, PEDES Pedregal, Chir, CSTBL De las Acacias, FITO Goffito, NELY Ciudad Neily, LCOG3 Loma Colorada, LCOG2 Loma Colorada, EDAD Goffito, LCOMA Manzanza, Boque, LMCA3 Las Lomas, Chi, LOMA3 Loma, CHIR3 Chiriqui UPA, CHIR2 Chiriqui, MLIR3 Monte Lirio, C, MLIR3, CLLRA Cordillera, PTRAR3 Potrerillos Arr, PTRAR2 Potrerillos Arr, BRU2 Volcan, BRU2 Volcan, BRU2 Volcan, TRBSZ, SCLRA Santa Clara, W, BCP3 Paso Ancho, BOTLY Boquete Panama, BOSF3 Alto Boquete, BOSF3 Alto Boquete, BOSM3 Paja de Sombre, PSOM3, ALCO Alturas Coton, PBVNO Pueblo Nuevo, RBALB Bar, DRKO Durika, EDPE Pejibaya, P, KNTTU Kakint, GMAL Guarumal, V, GMAL, Cerro El Cedra, LCR2 La Lucha 2, PARIA Puntaneras Pro, JFS Las Juntas de.

PRE 25 00:44:44.3-0.9, 27°03S:26°80E, h2km, ML2.7, Error ellipse: s-maj=27.00E: h12km, 13km, MD3.5, BGSJ 25 00:44:49.3-1.5, 27°00S:26°75E, h0km, 2.7km, ML3.1, ISC 25 00:44:45.6-1.4, 27°02S:0°03:26.79E:0°03, h12km, 11km, n44, o182/83, South Africa

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like WDLM Western Deep L, WDLM, SWZ Schweizer, HRAO HarRAO, BOSA Boshof, BOSA Boshof, MAKR Makgorgi, MAKR Makgorgi, LBTB Lobatse, LBTB Lobatse, NWCL Newcastle, NWCL, CRLN Carolina, Mapu, SKOMA Sekoma, SKOMA, LPHEP Lephelpe.







25d 3h

NEIC 25 02:37:45.0±0.9, 12.2N;0.1±1.140°E;0.1, h10km, 1km, mb4.7/39, Error ellipse: s-maj=22.9km s-min=17.5km az=118.0

IDC 25 02:37:50.3±3.2, 12.25N;141.01E, h60km, 30km, mb3.8/18, mbmp4.1/18, ML4.6/1, MS3.2/11, Error ellipse: s-maj=21.0km s-min=13.6km az=83.0

ISC 25 02:37:44.3±0.6, 12.224N;0.09±140.9E;0.1, h10km, n71, c075/62, mb4.7/38, MS3.2/10, Western Caroline Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations including GUMO, JAY, JNU, MYLDM, MJAR, H11N1, H11N2, H11N3, KRSR, KNRA, ASAJ, WBO, WR0, WR8, WB2, WRA, ASAR, KLR, CMAR, PETK, STKA, SONM, SEY, MKAR, MAZK, ZAAO, ZALV, K13K, KURK, KURB, O14K, M14K, O15K, K15K, F15K, L16K, J16K, N17K, E18K, G18K, G19K, H19K, C19K, E19K, D19K, J20K, BVAR, D20K, CAST, D22K, I23K, E23K, ILAR, D24K, AB31, ABKAR, ARTI, KIRV, CASY.

2019 JUN

Table with columns: EUNU, YKA, ARCES, FINES, NVAR, LPAZ. Lists seismic events with details like Eureka, Yellowknife Arr, Arcs Array B, FINESS Array B, Mina Array Bay, La Paz.

SJA 25 02:42:40.2±0.7, 22.34S;68.52W, h107km, 6km, ML3.4, MW3.5
GUC 25 02:42:41.8±0.8, 22.26S;68.68W, h126km, 4km, ML3.6
ISC 25 02:42:41.9±1.3, 22.31S;68.63W±0.04, h115km, 9km, n36, c180/56, S, Northern Chile

Main table of seismic events with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists events from AF01 to AC02, including stations like San Pedro de A, IPOC Station P, Punta Patache, Humberstone, Chuzmiza, etc.

NEIC 25 02:54:06.8±1.4, 6.51S;0.09±129.16E;0.07, h107km, 11km, mb4.3/3, Error ellipse: s-maj=13.9km s-min=9.1km az=155.0
IDC 25 02:54:16.1±5.5, 7.21S; 129.11E, h228km, 57km, mb3.0/1, mbtmp3.4/4, Error ellipse: s-maj=57.6km s-min=24.7km az=68.0

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations including SAUI, FAKI, SOEI, MTN, KBTI, MMRI, KNRA, FITZ, BVAR.

1570

Table with columns: FITZ, WBO, WRA, WRA, WRA, COEN, COEN, PSA00, PSA00. Lists seismic stations including Alice Springs, Warramunga Arr, Warramunga Arr, Warramunga Arr, Coen, Coen, Pilbara Seismi, Pilbara Seismi.

Table with columns: ASAR, ASAR, ASAR, ASAR, GAMB, GAMB, GAMB. Lists seismic stations including Alice Springs, Alice Springs, Alice Springs, Alice Springs, Gambell, Gambell, Gambell.

KRSC 25 02:57:11.9±1.5, 54.75N;164.50E, h47km, 29km, ML3.7
IDC 25 02:57:11.1±1.6, 55.76N;163.68E, h0km, mb3.5/3, mbtmp3.4/4, ML2.1/1, Error ellipse: s-maj=50.5km az=150.0

ISC 25 02:57:11.3±1.7, 54.95N;0.07±164.34E;0.05, h4km, 14km, n30, c158/43, mb3.5/3, Komandorski Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations including BKI, BKR, KBT, MKZ, MKZ, TUMD, BZGR, BZGR, SMKR, LGNR, KMNR, KIRR, KIRR, KRKR, KPT, SPN, SPN, SDR, SDR, SMAR, SMAR, KRER, KRER, UGLR, UGLR, AVH, AVH, KRX, KRX, KOK, GNL, KRMR, PETK, PETK, MTVR, MTVR, ASAK, ILAR, H11N2, H11N3, H11N1, TXAR.

IDC 25 03:00:00.5±1.3, 32.71S;178.37W, h0km, mb4.0/3, mbtmp4.0/4, ML3.9/1, MS3.3/1, Error ellipse: s-maj=37.8km s-min=33.3km az=120.0
WEL 25 03:00:01.5±0.9, 33°S;6°W, h16, h33km, M4.5/11, mb4.9/6, ML4.9/17, MLV4.7/11, Mw(mb)4.2/6, Error ellipse: s-maj=21.7km s-min=4.3km az=108.7, confirmed

NEIC 25 03:00:02.0±2.0, 32.68S;0.08±178.37W;0.2, h10km, 1km, mb4.5/9, Error ellipse: s-maj=28.3km s-min=11.7km az=178.0

ISC 25 03:00:01.0±1.0, 32.82S;0.07±178.1W;0.1, h10km, n49, c172/54, mb4.4/7, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Lists seismic stations including GLKZ, GLKZ, MXZ, MXZ, WMGZ, PKGZ, HAZ, HAZ, PUK, PUK, RUGZ, RWGZ, TWGZ, TWGZ, CNZG, TWGZ, MWZ, MWZ, URZ, URZ, URZ, URZ, RAGZ, RAGZ, PRGZ, PRGZ, MUGZ, MUGZ, RUAT, RUAT, RTZ, TOZ, OUZ, BKZ, BKZ, NGZ, NGZ, KZK, KZK, STKA, STKA, CTAO, ASAR.



Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like Haha-jima-NKT2, Chichijima, Boso, Warramunga Arr, etc.

ISC 25 03:28:32.6:0.7, 24'49N:0'07.141'E:0.1, h189km, n64, c1514/70, mb4.2/29, Volcano Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like FITZ, ASAR, MKAR, ILAR.

IDC 25 03:39:18.2:1.5, 52'.30'S:13'23'E, h0km, mb3.9/4, mbmp4.0/4, MS3.5/13, Error ellipse: s-maj=50.9km s-min=35.3km az=67.0

NEIC 25 03:39:19.4:1.1, 52'.3S:0'.1x13.7'E:0'.2, h10km, 1km, mb4.4/10, Error ellipse: s-maj=20.9km s-min=15.6km az=172.0

ISC 25 03:39:19.2:0.7, 52'S:0'.1x13.6'E:0'.2, h10km, n39, c0787/20, mb4.2/5, MSZ.4/13, 4D, Southwest of Africa

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like TROLL, SULL, SNA, VNA2, VNA3, BOS, MAW, LBTB, BELA, TSUM, MATP, GSPA, QSPA, LSZ, ABPO, H10S2, H10S3, VNA4, ASCN, BO02, DBIC, H10W1, LPAZ, LPZ, EIL, MDT, ASAR, GNI, YKA.

IDC 25 03:41:26.5:2.3, 14'.33'S:167'.35'E, h165km, 21km, mb3.6/12, mbmp4.0/13, Error ellipse: s-maj=24.3km s-min=17.0km az=117.0

NEIC 25 03:41:28.5:1.4, 14'.3S:0'.2x167'.4E:0'.3, h171km, 9km, mb4.2/12, Error ellipse: s-maj=39.2km s-min=19.5km az=117.0

ISC 25 03:41:27.0:2.5, 14'.33'S:0'07.167'E:0'.1, h170km, n39, c093/42, mb4.0/20, Vanuatu Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like SANVU, DZM, DZM, ONTNC, PINNC, STKA, WBO, WRA, ASAR, MORW, MJAR, MJBS, JTM, PEA0B, PETK, OHAK.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like M15K, M14K, K13K, M16K, SONM.

IDC 25 03:42:12.7:1.3, 2'.59'S:138'.58'E, h0km, mb3.6/3, mbmp3.6/6, ML3.5/3, Error ellipse: s-maj=26.6km s-min=16.4km az=167.0

DJA 25 03:42:18.0:0.4, 2'.5S:13'.9'E, h10km, M3.5/4, MLv3.5/4, ISC 25 03:42:16.0:0.9, 2'.52'S:0'08.138'E:0'.06, h32km, n10, c1939/11, mb3.7/3, Irian Jaya

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like SMPI, GENI, JAY, JAY, BAKI, WRA, FITZ, ASAR, MKAR, ILAR.

IDC 25 03:53:25.8:4.4, 21'07'S:174'.60'W, h0km, mb3.6/3, mbmp3.6/3, MS3.2/2, Error ellipse: s-maj=254.7km s-min=34.3km az=152.0, Tonga Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like PPT, ASAR, WRA, ASAJ, NVAR, AKASA.

NEIC 25 04:14:00.9:1.7, 17'.3S:0'.1x173'.9W:0'.2, h41km, 12km, mb4.5/13, Error ellipse: s-maj=23.7km s-min=16.4km az=65.0

IDC 25 04:14:24.7:7.6, 18'.20'S:174'.89'W, h202km, 40km, mb3.7/5, mbmp4.4/6, MS2.7/1, Error ellipse: s-maj=94.0km s-min=26.8km az=49.0

ISC 25 04:15:05.9:1.0, 17'.1S:0'.1x173'.3W:0'.1, h150km, n23, c1514/21, mb4.2/12, Tonga Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time Res, Res ISC. Includes stations like AFI, NIUE, MSVF, URV, PLWZ, LTZ, EIDS, ARMA, CTAO, TOO, STKA, WRA, ASAR.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like H1131 WAKE ISLAND Hy 33.60 102 T T, H1133 WAKE ISLAND Hy 34.01 104 T T, etc.

IDC 25 05:23:09.4.0.7, 2.65S:138.49E, h0km, mb3.9/9, mbmp4.0/13, ML3.9/3, MS3.3/8, Error ellipse: s-maj=17.3km s-min=15.5km az=17.0

NEIC 25 05:23:12.4.2.4, 2.64S:0.10:138.64E:0.05, h10km, 2km, mb4.3/9, Error ellipse: s-maj=16.6km s-min=8.4km az=192.0

DJA 25 05:23:15.0.0.6, 2.5S:13.9E, h21km, 6km, M4.3/8, mb4.3/1, MLV4.4/8

ISC 25 05:23:13.8.0.5, 2.66S:0.05:138.63E:0.05, h32km, n42, e194/41, mb4.1/10, MS3.2/4, 1D, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like SMP1 Sarmi 0.67 7 Op P, GENI Genyem 1.54 88 P, JAY Jayapura 2.08 86 Pn, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like ASAR Alice Springs 21.38 192 P, ASAR Alice Springs 21.38 192 P, ASAR Alice Springs 21.38 192 P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like BNK BinXian 49.21 350 pP, RTZ Ruatuhia 50.03 141 P, SONM Songoing Array 57.64 335 P, etc.

IDC 25 05:33:56.8:58.0, 13.01S:169.76E, h0km, mb4.0/3, mbmp4.0/3, Error ellipse: s-maj=995.1km s-min=127.6km az=65.0, Vanuatu Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like WRA Warramunga Arr 34.61 254 P, ASAR Alice Springs 35.55 247 P, etc.

IDC 25 05:56:48.5:5.6, 15.13S:167.51E, h124km, 43km, mb3.8/4, mbmp4.1/5, Error ellipse: s-maj=48.3km s-min=29.1km az=59.0

NOU 25 05:56:50.5, 15.22S:167.45E, h111km, MLV4.6/17, Vanuatu Islands

ISC 25 05:56:49.4:1.1, 15.16S:0.008:167.5E:0.2, h129km, n18, e098/19, mb4.0/4, Vanuatu Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like SANVU Sarauoutou 0.37 221 P, VLAKA Lakatoro 0.94 182 P, etc.

TRN 25 05:58:11.2, 2.66N:61.31W, h130km, MD3.8, IDC 25 05:58:14.2, 2.9N:61.44W, h152km, 18km, mb3.6/4, mbmp4.0/4, Error ellipse: s-maj=38.3km s-min=24.9km az=44.0

ISC 25 05:58:11.2:0.8, 12.68N:0.03:61.39W:0.06, h137km, 5km, n30, e190/54, mb3.7/3, Windward Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like GCMP Grenada, Carri 0.20 190 eP, GRVSS Sisters 0.43 210 eP, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like H05S1 Guadeloupe/Mar 1.82 17 P, H05S1 Guadeloupe/Mar 1.82 17 P, etc.

DJA 25 05:58:55.9:1.1, 2.54S:13.8E, h10km, M3.6/4, MLV3.6/4, IDC 25 05:58:56.0:1.7, 2.82S:138.56E, h0km, mb3.2/2, mbmp3.4/4, ML3.5/2, Error ellipse: s-maj=33.3km s-min=18.0km az=164.0

ISC 25 05:58:56.7:1.4, 2.52S:0.09:138.5E:0.1, h32km, n7, e1506/8, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like SMP1 Sarmi 0.58 24 Op P, GENI Genyem 1.69 92 P, etc.

ASRS 25 06:00:28.0:2.1, 3.54:21N:86.39E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021. IDC 25 06:00:29.7:2.8, 54.18N:86.45E, h0km, mbmp2.8/2, ML2.5/2, Error ellipse: s-maj=22.4km s-min=13.2km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like I46RU ZALESOVO INFRA 0.99 257 Op I, ZALV Zalesovo Beam 0.99 257 P, etc.

IDC 25 06:01:45.9:0.4, 47.91S:99.49E, h0km, mb5.0/19, mbmp5.0/19, MS5.5/47, Error ellipse: s-maj=20.1km s-min=11.0km az=123.0

MOS 25 06:01:47.9:1.5, 47.91S:99.53E, h10km, mb5.5/29, MS5.3/4, Error ellipse: s-maj=15.0km s-min=9.8km az=72.4

BUI 25 06:01:47.0, 47.83S:99.14E, h10km, mb5.5/55, mb5.2/78, MS5.7/87, MS7.5/86

IPGP 25 06:01:49.0, 48.02S:99.63E, h6km, Mw5.9, Fault plane solution: NP1:phi=305.00000, delta=0.00000, lambda=0.00000, NP2:phi=213.00000, delta=58.00000, lambda=164.00000

NEIC 25 06:01:51.2, 47.65S:99.33E, h22km, Moment Tensor Solution, Duration: 3.9, Moment tensor: Scale 10^17Nm; Mw=6.22; Ms=7.62; Mw-7.40; Ms-1.13; Ms-2.49; Ms-1.33; Fault plane solution: M=8.10000x10^17 NP1: phi=305.92000; delta=77.59000; lambda=41.00000. NP2:phi=215.83000; delta=89.60000; lambda=167.59000. Principal axes: T: 8.2348, Plg9.0000, Azm170.0000; N: -0.2663, Plg78.0000, Azm34.0000; P: -7.9685, Plg8.0000, Azm262.0000

NEIC 25 06:01:51.2, 47.85S:99.48E, h22km, NEIC 25 06:01:51.0, 47.91S:99.50E:0.1, h10km, 1km, Mw5.6/88, Ms2.20, 5.6/707, Mw5.8/280, Mw5.9/20, Error ellipse: s-maj=17.4km s-min=16.4km az=179.0, Moment Tensor Solution, Moment tensor: Scale 10^17Nm; Mw=6.10; Ms=7.62; Mw-7.40; Ms-1.13; Ms-2.49; Ms-1.33; Fault plane solution: M=5.44000x10^17 NP1: phi=305.65000; delta=89.49000; lambda=173.09000. NP2:phi=125.71000; delta=83.09000; lambda=51000. Principal axes: T: 6.1483, Plg5.0000, Azm35.0000; N: -1.9563, Plg83.0000, Azm211.0000; P: -4.1920, Plg5.0000, Azm81.0000

GCMT 25 06:01:52.0:0.1, 47.91S:99.48E, h12km, Mw5.8/169, Moment Tensor Solution, s160.c295; s169.c504; Duration: 2.0, Moment tensor: Scale 10^17Nm; Mw=1.92; Ms=1.15; Mw-6.23E:0.5; Mw=0.58E:1.1; Mw=1.92E:0.4; Mw=0.28E:1.0; Best double couple: Mw=5.070x10^17 NP1:phi=126.00000; delta=55.00000; lambda=0.00000. NP2:phi=36.00000; delta=837.00000; lambda=1.175.00000; Principal axes: T: 6.4740, Plg6.0000, Azm351.0000; N: 0.0670, Plg94.0000, Azm188.0000; P: -6.5390, Plg2.0000, Azm81.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Triangular moment-rate function

ISC 25 06:01:52.3:0.6, 47.98S:0.04:99.57E:0.05, h27km, 3km, n1041, e1968/702, mb5.4/128, MS5.6/414, 22C-9D, Southeast Indian Ridge

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like H01W2 Cape Leeuwin H 16.99 45 T, H01W3 Cape Leeuwin H 17.00 45 T, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s, ISC. Includes stations like PSAD3 Pilbara Seismi 30.89 39 P, PSAD3 Pilbara Seismi 30.89 39 P, etc.





25d 6h

2019 JUN

1576

Table with columns: MSVF, Nonsavu, 69.38 94, LR, LR, 06 37 22.0, ...

Table with columns: WHN, comp=Z,3um,18.4s, LR, LR, ...

Table with columns: GTA, Gaotai, 87.01 0, eP, P, 06 14 33.0 -1.8, ...



25d 6h

Table with columns: ID, Name, Value, Unit, Status, Date, and other details. Includes entries like D20K Etiwuk River, F20K Avaraart Lake, H20K Anotleneega Mo, etc.

2019 JUN

Table with columns: ID, Name, Value, Unit, Status, Date, and other details. Includes entries like E23K Chandalar, GLI Glacier Island, NOR Nord, WAT Sunita Watana, etc.

1578

Table with columns: ID, Name, Value, Unit, Status, Date, and other details. Includes entries like I27K Kandik River, H27K Steamboat Moun, H27K Steamboat Moun, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other details. Includes stations like R32K Eaglecrest, INK Inuvik, H31M Peel River, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other details. Includes stations like RYN Ryan, NLWA Neilton Lookou, NVAR Mina Array Bea, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other details. Includes stations like PDAR Pinedale Array, SDCC Great Sand Tun, 060A Indiantown, etc.

GC 25 06:14:54.7, 0.3, 13°25'N:89°37'W, h55km, 2km, MD3.9, ML2.7

CATAC 25 06:14:54.4±0.5, 13°N:6'x8'9W±1, h37km, 5km, M3.2/2.3, MLV3.2/2.3, Error ellipse: s-maj=13.0km s-min=6.0km

SNET 25 06:14:54.4±0.7, 13°26'N:89°28'W, h56km, 4km, ML3.3, ISC 25 06:14:54.8±1.0, 13°21'N:0°08.832'W±0.05, h52km±11km, n65, ±050/69, 5C-6D, El Salvador

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, and other details. Includes stations like LALI Alcalda de L, LALI Alcalda de L, etc.

IDC 25 06:17:20.4 ± 1.6, 0.85N, 126°32'E, h0km, mb3.6/4, mbtm3.8/5, ML3.5/1, Error ellipse: s-maj=116.5km s-min=21.4km az=68.0, Northern Molucca Sea

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual, and other details. Includes stations like FITZ Fitzroy Crossi, WRA Warramunga Arr, etc.

IDC 25 06:20:52.5±2.5, 48°43'Sx100°89'E, h0km, mb3.8/5, mbtm3.8/5, Error ellipse: s-maj=94.1km s-min=24.2km az=121.0





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MBWA Marble Bar, MORVA Morava, GSPA South Pole Qui, etc.

GCG 25 07:48:15.1±1.4, 14°30'N-93°24'W, h38km, 999km, MD3.9, ML2.6

MEX 25 07:48:16.8±0.8, 14°49'N-93°24'W, h5km, 33km, MD3.8

ISC 25 07:48:12.4±2.4, 14°31'N-09°93'17'W, 0.09, h19km, 44km, n12, c1943/25, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like THIG, STGB, PCIG, RTAL, etc.

IDC 25 07:50:15.8±3.1, 53°58'N-87°80'E, h0km, mbtmp2.8/2, ML2.5/2, Error ellipse: s-maj=27.9km s-min=17.9km az=56.0

ASRS 25 07:50:12.0±1.1, 53°55'N-87°89'E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, KURBB, etc.

IDC 25 07:54:33.3±12.0, 17°46'S-178°76'W, h563km, 164km, mb3.0/6, mbtmp3.9/6, Error ellipse: s-maj=128.2km s-min=41.0km az=162.0

NEIC 25 07:54:34.4±1.1, 17°45'S-178°80'W, 0.1, h561km, 9km, mb4.3/28, Error ellipse: s-maj=21.7km s-min=14.9km az=153.0

ISC 25 07:54:33.0±0.6, 17°33'S-178°84'W, 0.10, h550km, n34, c113/34, mb4.1/19, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MSRV, AFJ, RAROT, COEN, etc.

MMRI Maumere 57.88 271 P P 08 03 32.6 -0.6

NWAO Narogin (SRO) 59.12 242 P P 08 03 39.6 -1.6

VNDA Vanda 60.97 185 P P 08 03 53.7 +1.0

ELNS Elsinore Mount 77.42 49 I Amb I Amb 08 05 43.9

N14K Kuskokwak Cree 78.24 9 P P 08 05 37.2 +1.5

YBH Yreka Blue Hor 78.35 39 P P 08 05 37.4 +0.5

P18K Big Mountain, 78.85 12 P P 08 05 39.5 +0.4

NVAR Mina Array Bea 79.30 44 P P 08 05 41.9 -0.2

J05D Fort Rock, OR 80.10 39 P P 08 05 46.4 +0.1

L18K Granite Mount 81.21 10 P P 08 05 52.7 +1.5

WVOR Wild Horse Val 81.24 41 P P 08 05 51.6 -0.5

M19K Big River Lodg 81.33 11 P P 08 05 52.4 +0.5

M19K Big River Lodg 81.33 11 P P 08 05 52.4 +0.5

J17K VABM Dome 81.94 9 P P 08 05 56.3 +1.3

SCM Sheep Creek Mo 82.78 14 P P 08 05 59.6 +0.3

ILAR Eielson Array 85.43 13 P P 08 06 11.5 -0.7

TXAR Lajitas Array 86.04 58 P P 08 06 14.9 -1.2

PDAR Pinedale Array 87.22 44 P P 08 06 20.3 -1.2

comp=Z,0.3nm,0.5s,baz=248,slow=5.1,SNR=4.1

GERES GRESS Array B 146.96 345 PKPbc PKPbc 08 13 13.0 -1.2

ASRS 25 08:05:37.0±1.0, 54°43'N-86°31'E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 25 08:05:42.0±3.2, 54°52'N-86°22'E, h0km, mbtmp2.8/2, ML2.5/2, Error ellipse: s-maj=23.5km s-min=14.1km az=48.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, KURBB, etc.

IDC 25 08:17:37.1±3.1, 30°51'S-177°69'W, h0km, mb3.5/2, mbtmp3.5/2, Error ellipse: s-maj=67.0km s-min=25.5km az=107.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like RAO, RAO, RAO, URZ, etc.

IDC 25 08:25:18.5±3.4, 53°53'N-87°87'E, h0km, mbtmp2.6/2, ML2.3/2, Error ellipse: s-maj=29.0km s-min=17.6km az=57.0

ASRS 25 08:25:16.0±1.0, 53°61'N-87°93'E, h0km, M2.3, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, KURBB, etc.

DJA 25 08:25:16.9±0.4, 2°S-7°13'E, h47km, 11km, M4.1/6, MLV4.1/6

IDC 25 08:25:18.2±1.0, 2°77'S-138°52'E, h0km, mb3.7/5, mbtmp3.8/8, ML3.6/3, Error ellipse: s-maj=23.2km s-min=16.1km az=167.0

ISC 25 08:25:17.0±1.1, 2°35'S-138°05'E, h35km, n12, c1103/11, mb3.8/5, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SMPI, GENI, BAKI, etc.

IDC 25 08:26:58.4±1.5, 30°57'S-177°99'W, h0km, mb3.8/4, mbtmp3.8/4, Error ellipse: s-maj=37.5km s-min=20.6km az=102.0

ISC 25 08:27:03.6±1.5, 30°75'S-178°0'W, 0.3, h46km, n7, c292/9, mb3.8/4, Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like RAO, RAO, URZ, etc.

ASRS 25 08:30:06.0±1.0, 54°04'N-86°51'E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 25 08:30:09.7±2.4, 53°98'N-86°49'E, h0km, mbtmp3.0/2,

ML2.7/2, Error ellipse: s-maj=19.5km s-min=11.3km az=67.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, KURBB, etc.

SJA 25 08:34:28.2±0.7, 21°11'S-68°90'W, h128km, 4km, ML3.9, MW3.9

NEIC 25 08:34:30.8±1.3, 21°11'S-68°01'W, 0.07, h114km, 5km, mb4.1/11, ML3.9(GUC), Error ellipse: s-maj=9.8km s-min=3.3km az=90.0

GUC 25 08:34:31.3±0.8, 21°10'S-68°97'W, h110km, 4km, ML3.9

IDC 25 08:34:31.2±2.7, 20°86'S-68°57'W, h142km, 26km, mb3.5/5, mbtmp4.0/8, Error ellipse: s-maj=25.0km s-min=20.8km az=92.0

VAO 25 08:34:37.3±3.0, 20°66'S-68°24'W, h131km, 12km, mb4.2

ISC 25 08:34:29.8±0.6, 21°10'S-68°91'W, 0.05, h114km, 5km, n87, c1959/18, mb3.8/5, 6C-5D, Chile-Bolivia border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PB01, PB01, PB01, etc.

comp=Z,2.0um,0.4s

TA01 Diego Aracena 1.30 294 P P 08 34 54.7 +0.1

TA01 Diego Aracena 1.30 294 P P 08 34 54.6 +0.1

TA01 s-min=16.1km az=167.0

TA01 Diego Aracena 1.30 294 P P 08 34 54.7 +0.1

TA01 s-min=16.1km az=167.0

TA02 Huaiquique 1.41 306 P P 08 34 55.8 +0.0

TA02 Huaiquique 1.41 306 P P 08 35 15.2 -0.4

TA02 Huaiquique 1.41 306 P P 08 35 18.1

TA02 Huaiquique 1.41 306 P P 08 35 21.1

TA02 Huaiquique 1.41 306 P P 08 34 55.4 -0.4

TA02 Huaiquique 1.41 306 P P 08 35 22.1

GO01 Chumizma 1.45 349 P P 08 34 57.4 +0.6

GO01 Chumizma 1.45 349 P P 08 34 57.4 +0.6

GO01 Chumizma 1.45 349 P P 08 35 17.8 +0.6

GO01 Chumizma 1.45 349 P P 08 35 19.4

GO01 Chumizma 1.45 349 P P 08 34 57.4 +0.6

GO01 Chumizma 1.45 349 P P 08 35 18.5 +1.3

PB11 IPOC Station P 1.51 332 P P 08 34 57.8 +0.2

PB11 IPOC Station P 1.51 332 P P 08 35 17.9 +0.1

PB11 IPOC Station P 1.51 332 P P 08 34 56.1 -1.3

PB11 IPOC Station P 1.51 332 P P 08 35 19.7

PB06 IPOC Station P 1.71 201 P P 08 35 00.4 +0.9

PB06 IPOC Station P 1.71 201 P P 08 35 00.5 +0.9

PB06 IPOC Station P 1.71 201 P P 08 35 22.2 0.0

PB06 IPOC Station P 1.71 201 P P 08 34 59.8 +0.2

AF01 San Pedro de A 1.96 160 P P 08 35 05.0 +2.2

AF01 San Pedro de A 1.96 160 P P 08 34 51.1 -1.2

AF01 San Pedro de A 1.96 160 P P 08 35 27.1 -0.9

AF01 San Pedro de A 1.96 160 P P 08 36 04.6

PB05 IPOC Station P 2.12 214 P P 08 35 05.0 +0.5

PB05 IPOC Station P 2.12 214 P P 08 35 04.6 +0.5

PB05 IPOC Station P 2.12 214 P P 08 35 29.1 -0.1

PB05 IPOC Station P 2.12 214 P P 08 35 30.9

PB05 IPOC Station P 2.12 214 P P 08 35 04.8 +0.3

PB05 IPOC Station P 2.12 214 P P 08 35 29.5 -1.6

PB16 IPOC Station P 2.81 348 P P 08 35 14.9 +1.0

PB16 IPOC Station P 2.81 348 P P 08 35 04.0 -1.0

PB16 IPOC Station P 2.81 348 P P 08 35 00.1 +2.3

PB10 IPOC Station P 2.84 212 P P 08 35 13.9 +0.1

PB10 IPOC Station P 2.84 212 P P 08 35 13.0 -0.9

PB10 IPOC Station P 2.84 212 P P 08 35 44.1 -3.6

PB10 IPOC Station P 2.84 212 P P 08 35 46.0

AP01 Chacalluta 3.03 333 P P 08 35 16.3 -0.1

AP01 Chacalluta 3.03 333 P P 08 36 10.4

YJA Yavi 3.33 109 P P 08 35 23.6 +2.9

PB18 Visiviri 3.54 351 P P 08 35 04.0 +0.3

PB14 IPOC Station P 3.77 201 P P 08 35 26.0 -0.4

PB14 IPOC Station P 3.77 201 P P 08 35 26.0 -0.4

PB14 IPOC Station P 3.77 201 P P 08 36 09.4 -0.9

PB14 IPOC Station P 3.77 201 P P 08 36 32.5

GO02 Mina Guanaco 4.09 189 P P 08 35 30.0 -0.7

GO02 Mina Guanaco 4.09 189 P P 08 35 30.6 -0.1

GO02 Mina Guanaco 4.09 189 P P 08 35 18.9 +0.9

LPAZ La Paz 4.84 9 P P 08 35 43.8 +2.4

LPAZ La Paz 4.84 9 P P 08 35 43.3 +2.1



Table with columns: Station, Frequency, Power, Direction, Date, Time, and other parameters. Includes stations like PET, I44RU, PEAOB, etc.

Table with columns: Station, Frequency, Power, Direction, Date, Time, and other parameters. Includes stations like UGL, UGL, UGL, etc.

Table with columns: Station, Frequency, Power, Direction, Date, Time, and other parameters. Includes stations like G16K, O14K, O14K, etc.

Table with columns for station ID, name, elevation, frequency, and various signal quality metrics (IAMS, P, S, etc.). Includes stations like N18K Kilae Creek, ZEA Zeya, J19K Poorman, etc.

Table with columns for station ID, name, elevation, frequency, and various signal quality metrics. Includes stations like PPLA Purkeypyle, A22K Sinclair Lake, D22K Ayikyak River, etc.

Table with columns for station ID, name, elevation, frequency, and various signal quality metrics. Includes stations like GHO Glory Hole Cre, VLA Vladivostok, SEW Seward, etc.

PAX	comp=Z,436nm,1.0s	IAMS_20	IAMS_20	09 21 27.8					
PAX	comp=Z,37µm,21.0s								
PAX	Faxson	25.80	54	P	P	09 11 09.5	-1.9		
KLU	Klutina	25.83	57	P	Iamb	09 11 10.8	-0.9		
KLU	comp=Z,420nm,0.8s					09 11 30.7			
KLU	comp=Z,40µm,20.0s	IAMS_20	IAMS_20	09 21 13.9					
KLU	Klutina	25.83	57	P	P	09 11 09.6	-2.1		
BMAR	Burnt Mountain	25.87	44	P	P	09 11 11.8	-0.2		
C26K	Camden Bay	25.89	38	P	P	09 11 10.2	-1.8		
DIV	Divide	25.97	58	Iamb	Iamb	09 11 30.9			
DIV	comp=Z,504nm,1.1s								
DIV	comp=Z,55µm,20.0s	IAMS_20	IAMS_20	09 21 18.6					
RIDG	Independent Ri	25.97	52	Iamb	Iamb	09 11 32.6			
RIDG	Independent Ri	25.97	52	P	P	09 11 10.3	-2.6		
HARP	HAARP	26.02	55	P	P	09 11 11.1	-2.3		
F26K	Sheenjek River	26.04	43	P	P	09 11 12.0	-1.5		
Q23K	Middleton Isla	26.08	62	IAMS_20	IAMS_20	09 21 15.7			
Q23K	Middleton Isla	26.08	62	P	P	09 11 12.5	-1.3		
EYAK	Cordova Ski Ar	26.10	59	Iamb	Iamb	09 11 37.0			
EYAK	comp=Z,348nm,1.0s	IAMS_20	IAMS_20	09 21 14.1					
EYAK	comp=Z,66µm,20.0s								
EYAK	Cordova Ski Ar	26.10	59	P	P	09 11 14.9	+0.9		
EYAK	Cordova Ski Ar	26.10	59	P	P	09 11 13.2	-0.9		
G26K	Porcupine Rive	26.19	45	Iamb	Iamb	09 11 35.6			
G26K	Porcupine Rive	26.19	45	P	P	09 11 14.0	-0.8		
C27K	Jago River	26.28	39	IAMS_20	IAMS_20	09 23 03.3			
C27K	Jago River	26.28	39	P	P	09 11 14.2	-1.4		
MJB9	Matsu-Tunnel	26.30	233	P	P	09 11 16.7	+0.6		
MAJO	Matsushiro	26.30	233	P	P	09 11 16.5	+0.3		
MAJO	Matsushiro	26.30	233	P	P	09 11 17.4	+1.3		
MAJO	Matsushiro	26.30	233	P	P	09 11 17.7	+1.6		
MAJO	Matsushiro	26.30	233	P	P	09 11 16.4	+0.3		
MAT	Matsushiro	26.30	233	P	P	09 11 16.3	+0.2		
MJAR	Matsushiro Arr	26.30	233	P	P	09 11 16.6	+0.5		
MJAR	comp=Z,1.63nm,0.8s,baz=22,slow=8.8,SNR=124								
MJAR	comp=Z,1.0nm,0.5s,baz=37,slow=8.2,SNR=1.2								
MJAR	comp=Z,98µm,21.8s,baz=42,slow=37								
SCRK	Sand Creek	26.32	51	Iamb	Iamb	09 11 33.3			
SCRK	Sand Creek	26.32	51	P	P	09 11 13.7	-2.5		
DOT	Dot Lake	26.33	52	Iamb	Iamb	09 11 33.4			
N25K	Chitina, Valde	26.43	57	P	P	09 11 16.0	-1.2		
N25K	comp=Z,369nm,1.9s								
N25K	Chitina, Valde	26.43	57	P	P	09 11 15.5	-1.6		
JRY	Ryogami san	26.44	231	P	P	09 11 17.9	+0.6		
J26L	Joseph Creek	26.44	50	P	P	09 11 15.0	-2.3		
J26L	Joseph Creek	26.44	50	P	P	09 11 15.2	-2.0		
I26K	Coal Creek Min	26.54	48	P	P	09 11 16.6	-1.3		
I26K	comp=Z,43µm,21.0s	IAMS_20	IAMS_20	09 21 50.4					
I26K	Coal Creek Min	26.54	48	P	P	09 11 15.8	-2.1		
BMRM	Bremner River	26.56	58	P	P	09 11 17.8	-0.4		
BMRM	comp=Z,61µm,21.0s	IAMS_20	IAMS_20	09 21 28.2					
BMRM	Bremner River	26.56	58	P	P	09 11 16.1	-2.1		
MENT	Mentasta	26.59	54	IAMS_20	IAMS_20	09 21 51.8			
RAGM	Ragged Mountai	26.66	60	P	P	09 11 18.7	-0.4		
RAGM	comp=Z,69µm,21.0s	IAMS_20	IAMS_20	09 21 41.8					
L26K	Log Cabin Wild	26.74	53	P	P	09 11 19.0	-0.9		
L26K	comp=Z,48µm,18.0s	IAMS_20	IAMS_20	09 23 03.9					
L26K	Log Cabin Wild	26.74	53	P	P	09 11 17.7	-2.2		
GLB	Gilahina Butte	26.83	57	P	P	09 11 19.7	-1.0		
GLB	comp=Z,304nm,1.0s								
HMT	Hamilton	26.87	60	Iamb	Iamb	09 11 39.4			
HMT	comp=Z,390nm,0.9s	IAMS_20	IAMS_20	09 21 48.4					
BOD	Bodaibo	26.89	295	eP	pmax	09 11 22.7	+1.5		
KAIM	Kayak Island	26.90	60	IAMS_20	IAMS_20	09 21 57.2			
KAIM	Kayak Island	26.90	60	P	P	09 11 19.7	-1.5		
JGN	Niukaw	26.97	234	P	P	09 11 22.1	-0.1		
E27K	Coleen River	27.00	42	P	P	09 11 20.8	-1.4		
M26K	Nabesna, AK	27.01	55	Iamb	Iamb	09 11 44.5			
M26K	Nabesna, AK	27.01	55	P	P	09 11 20.8	-1.6		
G27K	Doyon Strip	27.03	45	Iamb	Iamb	09 11 46.6			
G27K	comp=Z,347nm,1.2s								
G27K	Doyon Strip	27.03	45	P	P	09 11 21.1	-1.3		
VRDI	Verde Repeater	27.05	57	P	P	09 11 21.9	-0.9		
VRDI	comp=Z,337nm,1.2s	IAMS_20	IAMS_20	09 21 52.0					
H27K	Steamboat Moun	27.12	46	P	P	09 11 23.1	-0.2		
H27K	comp=Z,591nm,1.3s	Iamb	Iamb	09 11 41.7					
H27K	Steamboat Moun	27.12	46	P	P	09 11 22.0	-1.3		
BERG	Berg Lake	27.13	59	P	P	09 11 22.9	-0.4		
BERG	comp=Z,355nm,1.1s	IAMS_20	IAMS_20	09 21 55.3					
I27K	Kandik River	27.15	48	P	P	09 11 20.9	-2.6		
K27K	Chicken	27.15	51	P	P	09 11 22.0	-1.5		
K27K	comp=Z,402nm,1.1s	Iamb	Iamb	09 11 47.8					
SUCK	Suckling Hills	27.17	60	P	P	09 11 22.8	-0.9		
SUCK	comp=Z,278nm,1.0s	Iamb	Iamb	09 11 41.2					
SUCK	comp=Z,57µm,21.0s	IAMS_20	IAMS_20	09 21 34.4					
MCARA	McCarthy VSAT	27.21	57	P	P	09 11 23.8	-0.3		
MCARA	comp=Z,433nm,1.0s	Iamb	Iamb	09 11 50.6					
MCARA	comp=Z,41µm,20.0s	IAMS_20	IAMS_20	09 21 58.4					
MCARA	McCarthy VSAT	27.21	57	P	P	09 11 22.9	-1.2		
D27M	Malcolm River	27.23	40	P	P	09 11 23.5	-0.8		
D27M	comp=Z,385nm,0.8s	Iamb	Iamb	09 11 44.1					
D27M	comp=Z,45µm,20.0s	IAMS_20	IAMS_20	09 23 15.6					
D27M	Malcolm River	27.23	40	P	P	09 11 22.8	-1.5		
CRQM	Cirque	27.31	58	P	P	09 11 25.0	-0.1		
CRQM	comp=Z,77µm,22.0s	IAMS_20	IAMS_20	09 21 51.5					

CRQE	Cirque	27.33	58	P	P	09 11 23.5	-1.8		
HIA	Hailar	27.39	274	P	P	09 11 28.0	+2.2		
BGLC	Bering Glacier	27.40	60	P	P	09 11 24.2	-1.5		
CN2	Changchun	27.42	260	P	P	09 11 23.5	-2.6		
CN2	comp=Z,20nm,0.6s			sP	sP	09 11 31.5	-0.8		
CN2	comp=Z,1µm,10.0s			pmax	pmax	09 16 00.5	-4.7		
CN2	comp=Z,81µm,14.0s			LR	LR				
CN2	comp=Z,75µm,14.0s			LR	LR				
L27K	Beaver Creek,	27.42	53	Iamb	Iamb	09 11 44.9			
L27K	comp=Z,328nm,0.9s								
L27K	Beaver Creek,	27.42	53	P	P	09 11 24.6	-1.4		
L27K	comp=Z,50µm,18.0s	IAMS_20	IAMS_20	09 23 15.7					
BCAR	Beaver Creek A	27.44	53	P	P	09 11 25.5	-0.6		
TGL	Tana Glacier	27.45	58	Iamb	Iamb	09 11 43.0			
TGL	comp=Z,261nm,0.8s	IAMS_20	IAMS_20	09 21 55.8					
JGF	Kuroka	27.47	233	P	P	09 11 26.5	-0.1		
JGF	comp=Z,69µm,22.0s	Iamb	Iamb	09 11 50.2					
JGF	Kuroka	27.47	233	P	P	09 11 28.1	+1.5		
JGF	Kuroka	27.47	233	P	P	09 11 27.0	+0.4		
JGF	Kuroka	27.47	233	P	P	09 11 27.0	+0.4		
JGF	Waxell Ridge	27.52	59	P	P	09 11 26.4	-0.5		
WAX	comp=Z,320nm,0.9s	IAMS_20	IAMS_20	09 22 09.6					
WAX	comp=Z,68µm,21.0s								
M27K	Edge Creek, AK	27.53	55	P	P	09 11 26.8	-0.3		
M27K	comp=Z,418nm,0.9s	Iamb	Iamb	09 11 46.4					
M27K	Edge Creek, AK	27.53	55	P	P	09 11 25.9	-1.2		
F28M	Old Crow	27.68	43	P	P	09 11 27.5	-0.7		
F28M	comp=Z,282,SNR=133								
F28M	Old Crow	27.68	43	P	P	09 11 27.1	-1.1		
ISLE	Juniper Island	27.73	58	IAMS_20	IAMS_20	09 22 15.0			
E28M	Babbage River	27.76	41	P	P	09 11 27.6	-1.3		
INU	Inuyama	27.83	233	P	P	09 11 31.3	+1.5		
INU	Inuyama	27.83	233	P	P	09 11 29.6	-0.2		
I28M	Miner Creek	27.86	48	Iamb	Iamb	09 11 55.4			
I28M	comp=Z,569nm,1.6s	IAMS_20	IAMS_20	09 22 52.2					
I28M	comp=Z,50µm,21.0s								
I28M	Miner Creek	27.86	48	P	P	09 11 28.1	-1.9		
JSG	Sagara	27.88	231	IAMS_20	IAMS_20	09 21 41.7			
BARN	Barnard Glacie	27.93	57	Iamb	Iamb	09 11 51.4			
GRNC	Granic Creek	27.97	58	P	P	09 11 30.4	-0.7		
GRNC	comp=Z,233nm,0.8s	Iamb	Iamb	09 11 58.4					
GRNC	comp=Z,300nm,0.9s	IAMS_20	I						























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Table with columns: Station Name, Frequency, Power, Mode, Time, and other parameters. Includes stations like PCVE Castro Verde, EGRO El Granado, RAO Raoul Island, etc.

2019 JUN

Table with columns: Station Name, Frequency, Power, Mode, Time, and other parameters. Includes stations like HUMP Col San Antoni, PDPR Patillas Dam, SMRT St. Maarten, etc.

25d 9h

Table with columns: Station Name, Frequency, Power, Mode, Time, and other parameters. Includes stations like VA06 Catalpico, CMCO1 Camacan, BA, VA01 Torpederas, etc.

IDC 25 09:10:11.8:3.9,53:68N:88:00E, h10km, mbmp2.7/2, ML2 6/2, Error ellipse: s-maj=37.1km s-min=19.2km

ASRS 25 09:10:12.0:1.2:1.53:63N:88:02E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res, and other parameters. Includes stations like I46RU ZALESOVO INFR, ZALV Zalesovo Beam, etc.

25d 9h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like MOPA Mopani, SWZ Schweizer, MUSN Musina, BOSA Boshof, BLWY Bulawayo, etc.

JMA 25 09:11:53.9.0.1, 23.8N, 07.122.9E, 0.5, h53km, MV2.8/14, NEAR ISHIGAKIUMA ISLAND

TAP 25 09:11:54.3, 23.82N, 122.97E, h53km, ML3.5, D

ISC 25 09:11:50.0.1.1, 23.57N, 0.03, 122.95E, 0.02, h15km, gkm, n103, 0.09/128, 1C, Taiwan region

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists numerous stations across various regions.

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like WTP, PCYT, CHN1, TAWN, EAST, SNST, etc.

ASRS 25 09:11:52.0.1.3, 53.93N, 86.59E, h0km, M2.7, The earthquake of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 25 09:11:54.5, 52.9, 53.95N, 86.58E, h0km, mbmt2.82, ML2.4/2, Error ellipse: s-maj=24.0km s-min=14.3km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like I46RU, ZALV, ZALV, KURBB, MKAR, BRG, etc.

IDC 25 09:19:30.5, 0.7, 56.23N, 164.29E, h0km, mb3.9/15, mbmt3.9/17, ML3.8/2, Error ellipse: s-maj=23.1km s-min=13.2km az=146.0

KRSC 25 09:19:31.9, 1.4, 56.16N, 164.37E, h1km, mb20k, M4.4, Error ellipse: s-maj=8.1km s-min=4.8km az=55.3

NEIC 25 09:19:35.5, 1.8, 56.5N, 0.1, 163.3E, 0.2, h10km, 1km, mb4.4/66, Error ellipse: s-maj=23.6km s-min=13.1km

ISC 25 09:19:37.0, 8.56, 16N, 0.04, 163.98E, 0.05, h43km, 8km, n188, 0.208/212, mb4.3/38, Near east coast of Kamchatka Peninsula

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists numerous stations across various regions.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like UGLR Ugluvaya, UGLR Ugluvaya, KOK Koryaka, GNL Koryaka, etc.

PEA0B Petropavlovsk, PEA0B Petropavlovsk, PETK Petropavlovsk, PETK Petropavlovsk

comp=N, 122nm, 0.4s, 4.76 233 Pn Pn 09 20 45.8 -1.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KMRM, KMRM, RUS, RUS, GRU, GRU, etc.

ANM Nome, ANM Nome, ANM Nome

LVA Lava Point, AKUT Akut, J14K Navaranan Lak, L14K Kuka Creek, L14K Kuka Creek

ASAJ Asahikawa, ASAJ Asahikawa, C16K Lisburne Hills, C16K Lisburne Hills

J16K Anvik River, I17K Unalakleet, I17K Unalakleet, N15K Kwethluk River, N15K Kwethluk River

O15K Unalakleet, L16K Ohwah River, L16K Ohwah River, H17K Granite Mountain, H17K Granite Mountain

ERM Ermo, ERM Ermo, J17K VABM Dome, J17K VABM Dome

M16K Timber Creek, M16K Timber Creek, E18K Sand Point, E18K Sand Point

C17K Iditarod, C17K Iditarod, C18K Utukok River, C18K Utukok River

G18K Tagagavik, G18K Tagagavik, CNBA Chernabura Isl, CNBA Chernabura Isl

N17K Nushagak Hills, N17K Nushagak Hills, F19K Shalercuk Mo, F19K Shalercuk Mo

L18K Granite Mountain, L18K Granite Mountain, D19K Kuna River, D19K Kuna River

E19K Redstone River, E19K Redstone River, J19K Poorman, J19K Poorman

J20K Avarat Lake, J20K Avarat Lake, M20K Itivluk River, M20K Itivluk River

D20K Iltan Mountain, D20K Iltan Mountain, M20K Styx River, M20K Styx River

B21K Ikpikpuk River, B21K Ikpikpuk River, H21K Melozitna River, H21K Melozitna River

B22K Teshekituk Lake, B22K Teshekituk Lake, E22K Anaktuvuk Pass, E22K Anaktuvuk Pass

SF1 Shuyak Island, SF1 Shuyak Island, TR1 Thorofare Moun, TR1 Thorofare Moun

COLD Coldfoot, COLD Coldfoot, G23K Bananza Creek, G23K Bananza Creek

H23K Yukon River, H23K Yukon River, H23K Yukon River, H23K Yukon River

C23K Itkillik River, C23K Itkillik River, C23K Itkillik River, C23K Itkillik River

E23K Chandalar, E23K Chandalar, NEA2 Nenana, NEA2 Nenana

TOLK Took Lake Re, TOLK Took Lake Re, RND Reindeer, RND Reindeer

RND Reindeer, RND Reindeer, RND Reindeer, RND Reindeer

SEW Seward, SEW Seward, WHR Denali Highway, WHR Denali Highway

DHY Denali Highway, DHY Denali Highway, DHY Denali Highway, DHY Denali Highway

DHY Denali Highway, DHY Denali Highway, DHY Denali Highway, DHY Denali Highway

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DHY Denali Highway, DHY Denali Highway, DHY Denali Highway, DHY Denali Highway









Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include DLR Sedlovina, KRER Koryakskii, SMAR Somma, etc.

KRSC 25 10:52:14.3-2.3, 56.18N-164.18E, h24km, 31km, MI3.7, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include KBTR Krutoberegovo, KBG Krutoberegovo, SMKR Semkarok, etc.

CATAC 25 10:59:24.6-0.8, 13°N, 5°9'W, h1km, M3, 1/6, MLV3, 1/6, Error ellipse: s-maj=12.4km s-min=6.2km az=29.1, confirmed

GGC 25 10:59:25.5-1.9, 13°31'N-91°11'W, h24km, 28km, MD4.3, ISC 25 10:59:24.4-2.9, 13.33N-91.92W, 0.1, h10km, n18, 01927/19, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include FAGE Alotenango, SA, FAGE Alcaldia de Sa, etc.

IDC 25 11:17:53.0-1.1, 56°20'N-164°27'E, h0km, mb3.5/8, mbmp3.6/10, ML3.2/1, Error ellipse: s-maj=32.6km s-min=17.8km az=155.0, confirmed

UCL 25 11:17:53.5-1.6, 56°24'N-164°39'E, h48km, 20km, ML4.0, ISC 25 11:17:53.1-1.5, 56°22'N-164°36'E, 0.04, h3km, n10km, n44, 01978/55, mb3.6/8, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include KBTR Krutoberegovo, KBTR Krutoberegovo, KBG Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include GRL Gorelyy, MTRV Mutnovka, ASAK Asacha, etc.

NOU 25 11:17:59.2, 37.71S-176.81E, h157km, MLV3.5/15, North Island, New Zealand

WEL 25 11:18:01.5-1.0, 37°S, 177°E, h130km, 9km, M2.8/12, ML2.9/5, MLV2.8/12, Error ellipse: s-maj=10.9km s-min=8.7km az=16.3, confirmed

ISC 25 11:17:58.1-1.7, 37.59S-176.89E, 0.05, h167km, 9km, n147, 01935/124, North Island

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include WSRZ White Island S, OPRZ Ohinepanea, MARZ Manawahe, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include LREZ Lake Rotokare, DVHZ Dannevirke, NEZ North Egmont, etc.

IDC 25 11:30:54.6-1.5, 10°16'S-152°02'E, h0km, mb3.7/3, mbmp3.7/4, ML3.3/1, MS3.9/1, Error ellipse: s-maj=68.6km s-min=30.1km az=132.0, D'Entrecasteaux Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include WRA Warramunga Arr, ASAR Alice Springs, CMAR Chiang Mai Arr, etc.

WEL 25 11:31:37.6-0.7, 33°S-16°17'W, 4°0', h33km, M4.3/7, mb4.4/2, ML4.6/13, ML4.3/7, Mw(mb)3.5/2, Error ellipse: s-maj=56.3km s-min=3.9km az=111.3, confirmed

IDC 25 11:31:45.9-1.6, 33°24'S-179°85'E, h0km, mb4.0/4, mbmp3.9/5, ML3.4/1, Error ellipse: s-maj=41.3km s-min=25.8km az=60.0, confirmed

ISC 25 11:31:33.2-1.2, 33.13S-10°17'W, 4°0', h10km, n24, 01951/34, mb4.0/4, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Rows include GLKZ Green Lake, GLKZ Matakaoa Point, WMGZ Waiomatatini S, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like MGAN, CRUN, WILN, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like MORW, KULLM, NJ2, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like IL31, ILAR, TOLK, etc.

GCG 25 11:36:16.9-1.0, 15:21N:92.44W, h71km, 10km, MD3.9, ML3.2

MEX 25 11:36:17.8-0.6, 14:92N:92.53W, h84km, 8km, MD3.7, ISC 25 11:36:13.4-1.7, 14:8N:01:92.5W:0.1, h100km, n10, c181/20, Near coast of Chiapas

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like THIG, PATR, SMCA, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like KMI, JKA, BNX, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like J25K, CRQM, MENT, etc.

IDC 25 11:38:35.3-0.6, 2:67S:138.58E, h0km, mb4.2/11, mbtmp4.3/15, ML4.3/4, MS3.6/1, Error ellipse: s-maj=19.6km s-min=16.0km az=82.0

NEIC 25 11:38:38.1-1.3, 2:77S:138.58E:0.05, h10km, 1km, mb4.7/9, Error ellipse: s-maj=14.1km s-min=8.8km az=175.0

DJA 25 11:38:39.0-0.5, 2:3S:139.9E, h14km, 5km, ML4.6/18, mb4.8/18, mb5.0/6, MLV4.7/11, Mw(mb)4.4/6, Mw(Mw)5.9/1, Mwps.9/1

ISC 25 11:38:37.4-0.3, 2:81S:104.138.57E:0.04, h10km, n160, c159/154, mb4.7/65, 1C-1D, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like SMP1, GENY, GENE, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like ADK, CASK, MKAR, etc.

ECX 25 11:43:46.9-0.2, 30:83N:114.17W, h3km, 5km, ML2.8, ISC 25 11:43:43.4-1.5, 30:84N:005:114:13W:0.04, h1km, 13km, n11, c96/10, 1D, Gulf of California

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like SFX, SFX, SFX, etc.

IDC 25 11:48:47.0-1.4, 47:91S:99.86E, h0km, mb3.9/5, mbtmp3.9/5, Error ellipse: s-maj=52.5km s-min=23.9km

ISC 25 11:48:47.0-1.4, 47:91S:99.86E:0.05, h10km, n19, Southeast Indian Ridge

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like H01W2, H01W1, H01W3, etc.

Table with columns: Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like ARSE, SIMJ, KKAK, etc.

IDC 25 11:58:25.9-61.0, 17:47S:179.17W, h0km, mb3.8/3, mbtmp3.8/3, Error ellipse: s-maj=111.0km s-min=166.9km az=78.0, Fiji Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like STKA, WRA, ASAR, etc.

HEL 25 12:04:18.8-0.1, 59:80N:27.40E, h0km, ML2.0, Explosion EST 25 12:04:19.0-0.1, 59:81N:27.40E, h0km, ML2.0(HEL), Explosion

IDC 25 12:04:21.1-1.2, 59:92N:27.24E, h0km, mbtmp3.2/4, ML2.7/4, Error ellipse: s-maj=14.7km s-min=8.6km az=89.0

ISC 25 12:04:16.6-0.7, 59:85N:02:27.35E:0.03, h0km, n28, c181/45, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision. Includes stations like EE04, EE04, VJF, etc.



LPAZ	La Paz	3.75 359 P	Pn	12 37 57.6 +1.8
LPAZ	comp=2.23nm,0.3s,baz=165,slow=5,SNR=108	S		
LPAZ	comp=2.14nm,0.7s,baz=27,slow=24,SNR=6.1	S		
LPAZ	La Paz	3.75 359 P	Pn	12 37 57.8 +1.9
LPAZ	La Paz	3.75 359 P	Pn	12 37 57.1 +1.2
LPAZ	La Paz	3.75 359 P	Pn	12 37 56.8 +0.9
BBOB	La Paz, Bander	3.90 359 P	Pn	12 37 59.3 +1.7
PB10	IPOC Station P	4.13 213 P	Pn	12 37 59.8 -0.3
PB10	IPOC Station P	4.13 213 P	S	12 37 59.5 -0.5
PB10	IAML			12 38 48.1
PB14	IPOC Station P	5.03 205 P	Pn	12 38 10.5 -1.4
PB14	IPOC Station P	5.03 205 P	S	12 38 10.9 -1.1
PB14	IAML			12 38 08.6
SLA	San Lorenzo	5.21 153 P	Pn	12 38 10.9 -3.4
SLA	IAML			12 39 17.0 +2.6
SLA	IAML			12 39 18.2
GO02	Mina Guanaco	5.26 195 P	Pn	12 38 14.9 -0.2
GO02	Mina Guanaco	5.26 195 P	S	12 38 14.2 -0.9
GO02	IAML			12 39 14.5 -1.3
AC01	Pan de Azucar	6.49 200 Pn	Pn	12 39 12.9 -1.3
AC02	Maricunga	6.61 188 Pn	Pn	12 38 34.8 -0.9
AC06	Mina Casimiro	7.55 196 Pn	Pn	12 38 43.0 -2.0
GOV	Copiapu	7.75 194 Pn	Pn	12 38 44.9 -2.9
SIV	San Ignacio	7.80 60 Pn	Pn	12 38 46.9 -1.6
SIV	comp=2.11nm,0.4s,baz=249,slow=8,SNR=48	S		
SIV	comp=2.6,1nm,0.7s,baz=320,slow=19,SNR=9.4	S		12 40 11.3 -4.5
AC04	Llanos de Chal	8.55 198 Pn	Pn	12 38 54.7 -3.6
LCO	Las Campanas	9.22 194 Pn	Pn	12 39 03.6 -3.8
PTLR	Pontes e Lacer	9.68 63 Pn	Pn	12 39 13.1 -4.1
C001	Pontes e Lacer	9.68 63 Pn	Pn	12 39 12.9 -0.3
FT01	Juntas del Toro	10.04 190 Pn	Pn	12 39 15.3 -2.8
VILB	Vilhena	10.35 48 Pn	Pn	12 39 23.8 +1.7
VILB	Vilhena	10.35 48 Pn	Pn	12 39 23.8 +1.7
GO04	Toiolo Observa	10.36 193 Pn	Pn	12 39 19.3 -3.0
BDQH	Botodonga, MS	10.96 63 Pn	Pn	12 39 23.1 -1.3
CO03	Ei Pedregal	10.99 192 Pn	Pn	12 39 26.9 -3.5
CO06	Fray Jorge	11.04 196 Pn	Pn	12 39 28.1 -2.9
CO02	Combarbal	11.04 193 Pn	Pn	12 39 31.7 -4.1
CPUP	Villa Florida	11.69 124 Pn	Pn	12 39 40.5 +1.1
CPUP	Villa Florida	11.69 124 Pn	Pn	12 39 40.2 +0.8
CPUP	comp=2.12nm,0.5s,baz=156,slow=12,SNR=13	S		
SALV	Santo Antonio	12.49 73 Pn	Pn	12 39 50.3 +0.7
VA03	San Esteban	12.84 189 Pn	Pn	12 39 50.3 -4.0
VA01	Torpederas	13.30 193 Pn	Pn	12 39 56.7 -3.2
MT02	Curacau	13.42 191 Pn	Pn	12 39 59.0 -2.6
MT08	Bocatonama R	13.44 187 Pn	Pn	12 39 59.8 -2.3
MT05	Renca	13.49 190 Pn	Pn	12 39 59.8 -2.7
RPDR	Ribas do Rio P	13.50 94 Pn	P	12 40 04.0 -2.1
PDRE	Porto dos Gac	13.77 54 Pn	P	12 40 06.3 -3.9
LMEL	Las Melosas	13.86 187 Pn	Pn	12 40 03.4 -3.9
MT09	Talagante	13.90 190 Pn	Pn	12 40 04.3 -3.4
MT01	Popeta	14.03 91 Pn	Pn	12 40 05.2 -4.0
BO04	La Punta	14.05 189 Pn	Pn	12 40 05.0 -4.5
BO01	Tunca	14.52 190 Pn	Pn	12 40 12.7 -2.6
BO02	Sierra Bellavi	14.87 189 Pn	Pn	12 40 16.2 -3.5
CLDB	Colider	14.95 54 Pn	P	12 40 21.1 -1.1
PTGB	Pitanga	15.24 191 Pn	Pn	12 40 28.2 -0.3
PCMB	Pacamebu	15.80 99 Pn	Pn	12 40 31.4 -0.3
ITAB	Concordia	16.26 119 Pn	Pn	12 40 38.0 +1.3
ITRB	Iturama	16.68 92 Pn	Pn	12 40 41.1 -0.8
CPBS	Cacapava Do Su	16.76 311 Pn	Pn	12 40 43.9 +1.1
NPGB	Novo Progresso	17.88 45 Pn	Pn	12 40 54.4 -1.9
SNDB	Serra do Dou	18.02 66 Pn	Pn	12 40 55.9 -2.3
TROA	Torquisto	18.02 165 Pn	Pn	12 41 02.0 -1.3
TROA	IAML			12 41 19.9
IPMB	Iparani, GO	18.90 87 Pn	P	12 41 05.5 -0.2
BDFB	Brasilia	19.60 80 Pn	P	12 41 13.9 -2.6
BDFB	IAML			12 41 17.0
BDFB	Brasilia	19.60 80 Pn	Pn	12 41 13.5 -3.0
BDFB	comp=2.5,7nm,0.4s,baz=264,slow=11,SNR=3.6	S		
ITTB	Itaituba	19.70 39 Pn	P	12 41 13.1 -1.2
LR05	Currie	20.38 189 Pn	Pn	12 41 22.1 +0.8
PMN8	Patos De Minas	20.48 89 Pn	Pn	12 41 22.1 -0.7
PLCA	Paso Flores	20.71 185 Pn	Pn	12 41 26.4 +1.4
PLCA	IAML			12 41 28.8
PLCA	Paso Flores	20.71 185 Pn	Pn	12 41 26.3 +1.3
PLCA	comp=2.5,0nm,0.8s,baz=8,slow=11,SNR=9.0	S		
BSCB	Boim Sucesso	21.85 97 Pn	P	12 41 36.4 -0.8
PRPB	Paraapebas	22.48 55 Pn	P	12 41 42.6 -0.7
MAL2	Monte Alegre,	22.50 39 Pn	P	12 41 42.7 -0.7
MAL2	IAML			12 41 46.3
SMTB	Santa Maria do	22.72 64 Pn	P	12 41 45.8 +0.2
DIAM	Diamantina, MG	23.12 90 Pn	P	12 41 49.1 -0.2
JANB	Januaria	23.19 81 Pn	P	12 41 48.8 -1.1
SDBA	SAO DESIDERIO	23.50 75 Pn	P	12 41 50.9 -1.8
RCBR	Riachuelo	34.31 70 Pn	P	12 43 29.6 +1.1
CELP	Cerrillos	37.93 2 Pn	P	12 43 59.2 +0.2
TXAR	Lajitas Array	59.91 324 Pn	P	12 46 46.9 +0.6
TXAR	Lajitas Array	59.91 324 Pn	P	12 46 46.2 -0.1
TXAR	comp=2.0,4nm,0.5s,baz=151,slow=9.3,SNR=3.9	S		
TXAR	comp=2.0,4nm,0.5s	S		
TX11	Lajitas Ar. Si	59.91 324 Pn	P	12 46 46.7 +0.4
BELA	Belgrano 2	60.06 172 Pn	P	12 46 47.3 +1.3
BELA	IAML			12 47 15.7
VHRN	Van Horn	61.76 324 Pn	P	12 46 59.4 +0.6
VHRN	IAML			12 46 59.7
LENM	Lemitar	65.41 325 Pn	P	12 47 22.1 -0.6
SDCO	Great Sand Dun	67.42 329 Pn	P	12 47 37.0 +1.5
DBIC	Dimbokro	67.58 74 Pn	P	12 47 36.3 -0.4
DBIC	Dimbokro	67.58 74 Pn	P	12 47 35.4 -1.3
QSPA	South Pole Qui	70.12 180 Pn	P	12 47 53.8 +2.0
QSPA	South Pole Qui	70.12 180 Pn	P	12 47 52.8 +1.1
QSPA	comp=2.1,9nm,0.9s,baz=218,slow=1.0,SNR=6.4	S		
QSPA	comp=2.1,9nm,0.9s	S		
BSUT	Blindstream Ca	72.19 327 Pn	P	12 48 06.4 +1.7
EPLO	Experimental L	73.06 343 Pn	P	12 48 09.2 -0.4
EPLO	IAML			12 48 09.8
PDAR	Pinedale Array	73.27 329 Pn	P	12 48 11.0 +0.1
PDAR	comp=2.0,2nm,0.5s,baz=118,slow=4.5,SNR=2.9	S		
PDAR	comp=2.0,2nm,0.5s	S		
ULM	Lac du Bonnet	74.19 342 Pn	P	12 48 15.8 +0.0
ULM	IAML			12 48 40.1
ULM	Lac du Bonnet	74.19 342 Pn	P	12 48 15.3 -0.4
ULM	comp=2.2,6nm,0.5s,baz=279,slow=6.5,SNR=6.5	S		
ULM	comp=2.2,6nm,0.5s	S		
NVAR	Mina Array Bea	74.85 321 Pn	P	12 48 21.4 +1.2
NVAR	comp=2.0,2nm,0.5s,baz=176,slow=6.1,SNR=3.6	S		
TORD	Torodi Arr	76.14 70 Pn	P	12 48 27.2 -0.5
TORD	IAML			12 48 27.8
TORD	comp=2.5,0nm,0.7s	S		
TORD	Torodi Arr, Bea	76.14 70 Pn	P	12 48 26.9 -0.8
TORD	comp=2.4,9nm,0.5s,baz=258,slow=4.3,SNR=2.6	S		
TORD	comp=2.4,9nm,0.5s	S		
PLID	Pearl Lake	78.13 328 Pn	P	12 48 40.0 +1.5
KRMB	Red Mountain	80.04 321 Pn	P	12 48 50.8 +1.9
YKAW1	Yellowknife Wh	90.05 340 Pn	P	12 49 38.8 +0.5
YKA	Yellowknife Arr	90.10 340 Pn	P	12 49 37.9 -0.2
YKA	comp=2.1,2nm,0.7s,baz=131,slow=3.9,SNR=19	S		
YKA	comp=2.1,2nm,0.7s	S		
YKAW3	Yellowknife Wh	90.15 340 Pn	P	12 49 39.0 +0.7
STHS	Stebnicka Huta	104.54 42 Pn	Pdf	12 50 43.2 +0.2
ASAR	Allice Springs	131.54 207 Pn	P	12 55 12.2 0.0
ASAR	comp=2.0,5nm,0.5s,baz=146,slow=2.0,SNR=4.2	S		
WARA	Warramunga Arr	134.58 210 Pn	PKPdf	12 55 57.1 +0.1
ZALV	Zalesovo Beam	140.33 25 Pn	PKPdf	12 56 06.6 +0.2
ZALV	comp=2.0,7nm,0.8s,baz=144,slow=1.7,SNR=2.8	S		
ZALV	comp=2.0,7nm,0.8s	S		
USA0B	Ussuriysk Arra	150.69 330 Pn	PKPbc	12 56 30.4 -0.2
USRK	Ussuriysk Arr	150.69 330 Pn	PKPbc	12 56 30.8 +0.2
MAJO	Matsushiro	151.75 311 Pn	PKPbc	12 56 33.5 +0.3
MJBS	Matsu-Tunnel	151.75 311 Pn	PKPbc	12 56 33.0 +0.4
SONM	Songino Arr	151.75 311 Pn	PKPbc	12 56 32.9 -0.1
SONM	comp=2.0,7nm,0.4s,baz=320,slow=4.3,SNR=2.3	S		
PZH	PanZhiHua	168.66 54 Pn	PKPdf	12 56 42.3 -3.0

IDD 25 12:42:01.6,0.7,56:31N,163:78E,h0km,mb3.6/12,mbtm3.7/14,ML3.0/2,MS3.9/1, Error ellipse: s-maj=29.6km s-min=14.1km az=153.0, KRSC 25 12:42:02.3,1.6,56:22N,164:21E,h44km,21km,MI4.1, MOS 25 12:42:03.0,0.7,56:23N,164:12E,h11km,mb4.5/5, Error ellipse: s-maj=9.2km s-min=5.2km az=50.2, NEIC 25 12:42:03.1,1.2,56:1N,0.2:163:7E,0.2,h10km,1km, mb4.0/57, Error ellipse: s-maj=30.1km s-min=17.3km az=153.0

ISC 25 12:42:04.6,0.5,56:22N,0.0:4:163:99E,0.0:3,h19km,n171, c=184/187,mb4.0/38,Near east coast of Kamchatka

Code	Station Name	A <sup>1</sup>	AZ <sup>2</sup>	Phase ID	Time	Res
					h m s	ISC
KBTR	Krutoberegovo	0.65	269	Op	12 42 16.2	-1.3
KBTR	Krutoberegovo	0.65	269	S	12 42 26.5	-2.1
KBTR	Krutoberegovo	0.65	269	S	12 42 16.2	-1.3
KBTR	Krutoberegovo	0.65	269	S	12 42 26.5	-2.1
KBG	Krutoberegovo	0.72	273	Pn	12 42 17.1	-1.3
KBG	Krutoberegovo	0.72	273	Pn	12 42 28.6	-1.5
KBG	Krutoberegovo	0.72	273	S	12 42 17.2	-1.3
KBG	Krutoberegovo	0.72	273	S	12 42 28.7	-1.5
SMKR	Semkarok	1.45	286	Pn	12 42 19.7	-1.2
SMKR	Semkarok	1.45	286	Pn	12 42 29.8	-1.2
BKI	Bering	1.52	311	Pn	12 42 28.1	-2.5
BKI	Bering	1.52	311	S	12 42 47.3	-2.5
BKI	Bering	1.52	311	S	12 42 37.3	-2.5
BDR	Baidarnaya	1.58	284	S	12 42 35.8	-1.1
ZLN	Zelenaya	1.79	265	Pn	12 42 35.8	-1.1
ZLN	Zelenaya	1.79	265	Pn	12 42 35.8	-1.1
CIFR	Tsirk	1.81	268	Pn	12 42 35.8	-1.4
KLY	Kiyuchi	1.87	264	Pn	12 42 34.6	-0.9
KLY	Kiyuchi	1.87	274	Pn	12 42 36.4	-0.9
BZGR	Bezmyanniy-Gr	1.87	263	Pn	12 42 36.7	-1.4
BZGR	Bezmyanniy-Gr	1.87	263	Pn	12 42 36.8	-1.4
KRSR	Krestovskiy	1.91	271	Pn	12 42 36.8	-2.1
KRSR	Krestovskiy	1.91	271	Pn	12 42 36.8	-2.1
BZWR	Bezmyanniy-We	1.97	264	Pn	12 42 38.1	-1.5
BZWR	Bezmyanniy-We	1.97	264	Pn	12 42 38.5	-1.5
BZMR	Bezmyannaya	1.98	263	Pn	12 42 38.5	-1.6
BZMR	Bezmyannaya	1.98	263	Pn	12 42 38.5	-1.6
KIRR	Kirishev	2.06	264	Pn	12 42 39.5	-1.9
KIRR	Kirishev	2.06	264	Pn	12 42 39.5	-1.9
MKZ	Mys Kozlova	2.11	219	Pn	12 43 03.1	-1.3
MKZ	Mys Kozlova	2.11	219	Pn	12 43 03.1	-1.3
MKZ	Mys Kozlova	2.11	219	Pn	12 43 03.2	-1.3
MKZ	Mys Kozlova	2.11	219	Pn	12 43 03.2	-1.3
KPT	Kopyto	2.13	265	Pn	12 42 40.7	-1.8
KPT	Kopyto	2.13	265	Pn	12 42 40.7	-1.8
KMN	Kamenistaya	2.16	259	Pn	12 42 41.6	-1.4
KMN	Kamenistaya	2.16	259	Pn	12 42 41.7	-1.4
TUMD	Tumrok D	2.27	245	Pn	12 42 40.0	+0.9
TUMD	Tumrok D	2.27	245	Pn	12 42 40.0	+0.9
KOZ	Kozyrevsk	2.31	268	Pn	12 42 43.5	-2.0
KOZ	Kozyrevsk	2.31	268	Pn	12 42 43.5	-2.0
SRDR	Sredinnyy	2.38	274	Pn	12 42 44.3	-2.6
SRDR	Sredinnyy	2.38	274	Pn	12 42 44.4	-2.6
ESO	Esso	2.98	266	Pn	12 42 52.2	+1.4
ESO	Esso	2.98	266	Pn	12 42 52.2	+1.4
OSSR	Ossora	3.08	351	Pn	12 43 51.1	-1.0
OSSR	Ossora	3.08	351	Pn	12 43 51.1	-1.0
KII	Karymskiy	3.40	232	Pn	12 42 58.5	+1.9
KII	Karymskiy	3.40	232	S	12 43 04.6	-4.6
KII	Karymskiy	3.40	232	S	12 42 58.5	+1.9

25d 12h

Table with columns: MKAR, MKAR, KURBBS, WRA, ASAR. Includes station names, coordinates, and various parameters.

Table with columns: Code, Station Name, Az, Op, Phase ID, ISC, Time, Res. Includes stations like JAY, WRA, FITZ, ASAR, MKAR.

IDC 25 12:47:11.8-1.6, 2.67S, 138.46E, h0km, mb3.3/2, mbmtpp3.4/4, ML3.4/3, Error ellipse: s-maj=31.4km

Main table for 25d 12h section, listing stations from Rabbit Creek A to Cordova Ski Ar. Columns include Code, Station Name, Az, Op, Phase ID, ISC, Time, Res.

2019 JUN

Main table for 2019 JUN section, listing stations from WAT6 to GRNC. Columns include station name, coordinates, and various parameters.

1604

Main table for 1604 section, listing stations from GRNC to SKAG. Columns include station name, coordinates, and various parameters.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include E23K Chandalar, F26K Sheenjek River, E24K Yur Creek, M31M Drury Creek, I30M Mount Dempster, E19K Redstone River, E25K Arctic Village, TOLK Toolik Lake Re, YKA Yellowknife Ar, SONM Songo Array, FINES FINES Array B.

KRSC 25 13:01:05.9-1.7, 56:25N; 164.17E, h45km, 20km, MI3.8
IDC 25 13:01:06.4-1.1, 56:45N; 163:86E, h0km, mb3.4/6,
mbtmp3.5/9, ML2.8/2, Error ellipse: s-maj=31.7km
s-min=15.3km az=171.0

ISC 25 13:01:06.0-1.8, 56:28N; 0:05:164:13E, h5km, 11km, g
n43, r1568/47, mb3.4/6, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include KBTR Krutoberegovo, KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, SMKR Semkarok, ZLN Zelenaya, BZGR Bezymyanni-Gr, KRSR Krestovskiy, BZMR Bezymyanni-We, KIRR Kirishev, MKZ Mys Kozlova, KMNr Kamenistaya, TUMD Tumrok D, KOZ Kozyrevsk, SRDR Sredinnyy, OSSR Ossora, KIL Karymskiy, SPN Mys Shipunski, NLC Nalychchevo, KRX Arik, SMAR Somma, AVH Avacha, AVH Avha, GNL Ganaly, DALK Dalny, PETR Petropavlovsk, PETR Petropavlovsk, PETK Petropavlovsk, PETK Petropavlovsk, KRMR Karymsinskiy, GRL Gorelyy, ASAK Asacha, MAJ Magadan, ASAJ Asahikawa, ILAR Eielson Array, SONM Songo Array, H1N2 WAKE ISLAND Hy, H1N1 WAKE ISLAND Hy, H1N1 WAKE ISLAND Hy, H1S1 WAKE ISLAND Hy, H1S3 WAKE ISLAND Hy, H1S2 WAKE ISLAND Hy, YKA Yellowknife Ar, MKAR Makanchi Array, NVAR Mina Array, PDAR Pinedale Array.

IDC 25 13:08:25.8-1.3, 2:58S; 138:49E, h0km, mb3.4/3,
mbtmp3.4/6, ML3.3/3, Error ellipse: s-maj=27.0km
s-min=16.8km az=167.0
ISC 25 13:08:30.3-1.1, 2:75S; 0:2:138:5E, h2km, n6, r1511/6,
mb3.5/3, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include JAY Jayapura, JAY Jayapura, WRA Warramunga Arr, FITZ Fitzroy Crossi, ASAR Alice Springs, MKAR Makanchi Array, ILAR Eielson Array.

IDC 25 13:10:13.5-3.3, 33:24S; 179:59W, h0km, mb3.6/2,
mbtmp3.6/3, ML3.3/1, Error ellipse: s-maj=72.2km
s-min=37.0km az=106.0, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include URZ Urewera, URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, FINES FINES Array B.

KRSC 25 13:32:35.7-1.5, 56:19N; 164:45E, h51km, 20km, MI3.8,
Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include KBTR Krutoberegovo, KBTR Krutoberegovo, KBG Krutoberegovo, KBG Krutoberegovo.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include BKI Bering, SMKR Semkarok, BDR Baidarnaya, ZLN Zelenaya, CIRR Tsirik, BZGR Bezymyanni-Gr, KLY Klyuchi, KIL Karymskiy, KRSR Krestovskiy, KRSR Krestovskiy, BZMR Bezymyanni-We, BZMR Bezymyanni-We, BZMR Bezymyanni-We, MKZ Mys Kozlova, KIRR Kirishev, KIRR Kirishev, KPT Kopyto, KPT Kopyto, KMNr Kamenistaya, TUMD Tumrok D, KOZ Kozyrevsk, SRDR Sredinnyy, SRDR Sredinnyy, OSSR Ossora, OSSR Ossora, ESO Esso, KRY Karymskiy, KIL Karymskiy, SPN Mys Shipunski, NLC Nalychchevo, NLC Nalychchevo, SDLR Sedlovina, KRDR Koryakskii, KRDR Koryakskii, SMAR Somma, SMAR Somma, KRX Arik, KRX Arik, AVH Avacha, AVH Avacha, UGLR Uglovaya, UGLR Uglovaya, UGLR Uglovaya, KOK Koryaka, KOK Koryaka, GNL Ganaly, DALK Dalny, DALK Dalny, PETR Petropavlovsk, PETR Petropavlovsk, RUS Russkaya, GRL Gorelyy, GRL Gorelyy, MTRV Mutnovka, MTRV Mutnovka, APC Apacha, ASAK Asacha, ASAK Asacha, KMSK Kamenskaya, SKR Severo-Kuril'sk.

KRSC 25 13:35:22.1-1.7, 56:22N; 164:31E, h50km, 21km, MI3.6,
Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include KBTR Krutoberegovo, KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, SMKR Semkarok, SMKR Semkarok, BDR Baidarnaya, SRDR Sredinnyy, ZLN Zelenaya, CIRR Tsirik, CIRR Tsirik, KLY Klyuchi, KLY Klyuchi, BZGR Bezymyanni-Gr, KRSR Krestovskiy, KRSR Krestovskiy, BZMR Bezymyanni-We, BZMR Bezymyanni-We, BZMR Bezymyanni-We, MKZ Mys Kozlova, MKZ Mys Kozlova, KIRR Kirishev, KIRR Kirishev, KPT Kopyto, KPT Kopyto, KMNr Kamenistaya, TUMD Tumrok D, KOZ Kozyrevsk, KOZ Kozyrevsk, SRDR Sredinnyy, SRDR Sredinnyy, OSSR Ossora, OSSR Ossora, ESO Esso, ESO Esso, KIL Karymskiy, SPN Mys Shipunski, SDLR Sedlovina, KRDR Koryakskii, KRDR Koryakskii, KRX Arik, KRX Arik, SMAR Somma, SMAR Somma, AVH Avacha, AVH Avacha, UGLR Uglovaya, UGLR Uglovaya, KOK Koryaka, GNL Ganaly, DALK Dalny, DALK Dalny, PETR Petropavlovsk, PETR Petropavlovsk, GRL Gorelyy, MTRV Mutnovka, MTRV Mutnovka, ASAK Asacha, ASAK Asacha.

IDC 25 13:50:04.8-0.8, 12:44S; 13E, h0km, mb3.8/11,
mbtmp3.8/12, ML3.6/11, MS3.4/11, Error ellipse:
s-maj=28.1km s-min=21.6km az=85.0
NEIC 25 13:50:04.6-1.2, 12:62S; 0:1:45:9E, 0:3, h10km, 2km,
mb4.4/7, Error ellipse: s-maj=44.2km s-min=20.8km
az=261.0

ISC 25 13:50:05.3-0.6, 12:59S; 0:08:46E, 0:2, h10km, n33,
r1531/25, mb3.9/12, MS3.4/9, Northwest of Madagascar

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include OPO Ambodihatompo, OPO Ambodihatompo, ABPO Ambompanpon, MATP Matopo, LBTB Lobate, BOSA Boschof, BOSA Boschof, TSUM Tsumeb, PALK Pallekele.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include TOR Torodi Ar, BRTR Kakin Array B, KBZ Khabaz, BRDH Bariadhala, TIRR Karatay Array, PDG Podgorica, CMAR Chiang Mai Arr, AB31 Akbulak array, AB31 Akbulak array, ABKAR Akbulak array, BUAR Buoviana Array, CASP Castiglione de, MAKZ Makanchi, MKAR Makanchi Array, MKAR Makanchi Array, BVAR Borovoye Array, KURBB Kurchatov Arr, ESDC Songo Array B, ESDC Songo Array B, QIZ Qiongzong, ZALV Zalesovo Beam, FINES FINES Array B, ASAR Alice Springs, WRA Warramunga Arr, BDFB Brasilia, CPUP Villa Florida.

IDC 25 13:55:33.3-333.0, 57:42N; 29:02E, h0km, Error ellipse:
s-maj=132.6km s-min=95.1km az=95.0, Baltic
States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include I43RU DUBNA INFRASON, I26DE FREYUNG INFRAS, I37NO I37NO.

IDC 25 13:59:41.0-1.0, 56:31N; 164:72E, h0km, mb3.4/10,
mbtmp3.4/12, ML3.1/2, Error ellipse: s-maj=35.7km
s-min=15.6km az=166.0

KRSC 25 13:59:40.8-1.1, 56:31N; 164:72E, h48km, 20km, MI3.8
ISC 25 13:59:45.6-0.7, 56:16N; 0:06:164:72E, 0:05, h35km, n48,
r1531/49, mb3.5/10, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, SMKR Semkarok, LGNR Loginova, BZGR Bezymyanni-Gr, KRSR Krestovskiy, MKZ Mys Kozlova, BZMR Bezymyanni-We, BZMR Bezymyanni-We, KIRR Kirishev, KIRR Kirishev, KPT Kopyto, TUMD Tumrok D, KOZ Kozyrevsk, SRDR Sredinnyy, ESO Esso, SPN Mys Shipunski, NLC Nalychchevo, SDLR Sedlovina, KRDR Koryakskii, SMAR Somma, KRX Arik, KRX Arik, AVH Avacha, UGLR Uglovaya, UGLR Uglovaya, KOK Koryaka, GNL Ganaly, DALK Dalny, PETK Petropavlovsk, GRL Gorelyy, MTRV Mutnovka, ASAK Asacha, ASAJ Asahikawa.

IDC 25 14:05:24.2-1.2, 56:25N; 164:45E, h51km, 20km, MI3.8,
Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Rows include ILAR Eielson Array, MJAR Matsuhiro Arr, SONM Songo Array, H1N2 WAKE ISLAND Hy, H1N1 WAKE ISLAND Hy, YKA Yellowknife Ar, KURBB Kurchatov Arr, MKAR Makanchi Array, BVAR Borovoye Array, PDAR Pinedale Array, CMAR Chiang Mai Arr, TXAR Lajitas Array.

PRE 25 14:01:11.4-1.1, 26:05S; 29:40E, h0km, ML2.9, Suspected
explosion
BSG 25 14:01:13.2-1.4, 25:97S; 30:38E, h67km, 216km, ML3.1

25d 14h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Carolina, Mapu, Pilgrimsrest, Newcastle, Parys, Pongola, Senekal, Mopani, Pietermaritzburg, Lobatse, Musina, Limpop, Moremi, Makgori, Boshof, Kokstad, Kaudwane, Sekoma, Thalogang.

IDC 25 14:07:32.0, 9.56:37N, 164.37E, h0km, mb3.4/13, mbmp3.4/15, ML3.0/2, MS2.7/6, Error ellipse: s-maj=29.4km s-min=14.5km az=158.0

KRSC 25 14:07:32.5, 1.7, 56:07N, 164.62E, h21km, 23km, ML4.0

IDC 25 14:07:33.0, 0.6, 56:15N, 160.05E, 164.56E, 0.0, h10km, m59, z=208/55, mb3.5/14, Komandorski Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Krutoberegovo, Bering, Semkarok, Baidarnaya, Zelenaya, Tsirik, Loginova, Bezymyannyi-Gr, Klyuchi, Krestovskiy, Mys Kozlovka, Bezymyannyi-We, Kirr, Kopyto, Kameniastaya, Tumrok D, Kozyrevs, Sredinnyy, Ossora, Kiy, Mys Shipunski, Sedlovina, Koryakskii, Somma, Avich, Uglovaya, Koryaka, Ganaty, Dalny, Petropavlovsk, Asacha, Magadan, Seymchan, Asahikawa, Yakutsk, Tiksi, Eielson Array, Matsushiro Arr, Sogino Array, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy, WAKE ISLAND Hy, Yellowknife Ar.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Kurchatov Arra, Makanchi Array, Borovoye Array, Mina Array Bea, Pinedale Array, FINESS Array B, NORSAR Array B, Chiang Mai Arr, Laifas Array.

AFAD 25 14:15:01.7, 38:71N, 40:29E, h13km, 3km, ML2.3

IDC 25 14:15:04.7, 38:71N, 40:21E, h4km, ML2.5/10

IDC 25 14:15:03.9, 1, 3, 38:75N, 0:04, 40:19E, 0:03, h10km, 11km, n14, c101/22, Turkey

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Bingi, Yedisu-Bingol, Yezidu-Bingol, Erzin, Elazig, Silvan-Diyarba, Varto-Mus, Malatya/Merkez, Guroyamak-BITLI, Hanur/Hi, Adyaman-Merk, Koprucki-ERZUR, Darende-Malaty, Akdamar-Van, Hanur-Agry.

IDC 25 14:18:57.2, 2.1, 57:55S, 151:02E, h0km, mb3.6/4, mbmp3.2/4, Error ellipse: s-maj=121.3km s-min=28.1km az=128.0, New Britain region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Port Moresby, Warramunga Arr, Alice Springs, Fitzroy Crossi, Eielson Array, Torndi Ar. Bea.

IDC 25 14:28:09.1, 1, 9, 0:25N, 124:33E, h0km, mb3.0/3, mbmp3.2/4, ML3.1/1, Error ellipse: s-maj=136.5km s-min=27.2km az=66.0, Minahassa Peninsula, Sulawesi

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Warramunga Arr, Alice Springs, Makanchi Array.

IDC 25 14:28:16.8, 2.2, 1:46N, 126:94E, h0km, mb3.3/3, mbmp3.3/3, MS3.2/1, Error ellipse: s-maj=174.5km s-min=27.0km az=66.0, Northern Molucca Sea

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Warramunga Arr, Kunigami, Alice Springs, Makanchi Array.

DNK 25 14:28:25.0, 4.5, 71:35N, 19:22W, h0km, 32km, ML2.1

IDC 25 14:28:33.9, 7.2, 71:41N, 15:81W, h0km, mb3.5/2, mbmp3.7/5, ML3.1/3, MS2.9/4, Error ellipse: s-maj=111.7km s-min=51.5km az=84.0

IDC 25 14:28:25.0, 8, 71:36N, 0:06, 19:50W, 0:06, h10km, n15, z=200/15, MS3.1/3, 1C, Jan Mayen Island region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Scoresbysund, Daneborg, Soedalen, Summit, Magadan, Greenland Ccs, Spitsbergen, Scoresbysund.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like ARCES ARCESS Array B, NORSAR Array B, Hagfors, FINESS Array B, Davos/Dischmat, Malin Array Be, Kurchatov Arra, Makanchi Array, Pinedale Array.

IDC 25 14:36:02.1, 3, 4, 33:11S, 178:24W, h0km, mb3.9/3, mbmp3.9/4, ML3.6/1, Error ellipse: s-maj=74.9km s-min=47.3km az=121.0

NEIC 25 14:36:02.0, 5, 33:05S, 0:1, 178:05W, 0:05, h10km, 1km, mb4.3/7, Error ellipse: s-maj=22.5km s-min=8.1km az=178.0

IDC 25 14:36:02.1, 1, 33:15S, 0:1, 178:30W, 0.2, h10km, n15, z=162/15, mb4.0/6, South of Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Raoul Island, Urewera, Oxford, Alice Springs, Warramunga Arr, WBO, Warramunga Arr, KNR, Fitzroy Crossi, AIN, KKM, SNA, FINESS Array B.

SOME 25 14:39:13.7, 39:10N, 73:75E, h0km

IDC 25 14:39:15.1, 7.2, 38:28N, 74:57E, h160km, 62km, mb3.8/1, mbmp3.6/6, Error ellipse: s-maj=69.6km s-min=44.8km az=161.0

NNC 25 14:39:17.8, 2.9, 38:69N, 74:19E, h0km, mb3.7, mpv3.3, Error ellipse: s-maj=22.5km s-min=17.7km az=152.0

IDC 25 14:39:14.9, 1, 9, 38:33N, 0:1, 74:50E, 0.1, h150km, n16, z=140/22, 4C-2D, Tajikistan-Xinjiang border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like AML, UCH, AAK, AAK, AAK, MRKS, TKM2, TKM2, TKM2, CHMS, KK31, BRLS, BRLS, MRKAR, Kurchatov Arra, BVAR, ZALV, TORD.

NOU 25 14:40:03.4, 21:97S, 169:38E, h0km, MLV3.8/10, Southeast of Loyalty Islands, Southeast of Loyalty Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like MARNC, PINNC, YATNC, INH, DZM, ONTNC, VLAKA.

IDC 25 14:45:57.5, 1.2, 2:69S, 138:58E, h0km, mb3.4/4, mbmp3.5/7, ML3.6/3, Error ellipse: s-maj=29.9km s-min=22.0km az=138.0

IDC 25 14:45:59.7, 1.2, 2:85S, 0:2, 138:6E, 0.1, h10km, n7, z=080/7, mb3.4/4, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like Jayapura, Warramunga Arr, Fitzroy Crossi, Alice Springs.





I21K	Tanana	22.90	49	P	P	16 04 48.3	+0.4
O20K	Slope Mountain	22.95	62	P	P	16 04 48.9	+0.4
N20K	Mount Depurr	22.98	59	P	P	16 04 48.9	0.0
SPCR	Spurr Chakacha	22.98	59	P	P	16 04 49.1	+0.2
D22K	Aiyikyak River	23.06	40	P	P	16 04 49.7	+0.1
B22K	Teshhepuk Lake	23.15	36	I	Amb	16 04 51.9	0.0
B22K	Teshhepuk Lake	23.15	36	P	P	16 04 50.1	-0.2
H22K	Ishlaltitna Cre	23.18	47	P	P	16 04 50.5	-0.3
G22K	Bettles	23.21	45	P	P	16 04 50.4	-0.7
SKT	Skwentna	23.21	57	P	P	16 04 50.4	-0.8
OHAK	Old Harbor	23.24	70	P	P	16 04 50.7	-0.7
E22K	Anaktuvuk Pass	23.24	42	I	Amb	16 04 53.2	0.0
E22K	Anaktuvuk Pass	23.24	42	P	P	16 04 50.3	-1.2
BPAW	Bear Paw Mtn	23.32	52	P	P	16 04 51.9	-0.3
Q20K	Shuyak Island	23.35	66	P	P	16 04 52.2	-0.4
MLY	Manley	23.42	49	P	P	16 04 53.0	-0.3
KDAK	Kodiak Island	23.46	68	P	P	16 04 53.0	-0.6
KDAK	Kodiak Island	23.46	68	LR	LR	16 13 08.3	0.0
KDAK	Kodiak Island	23.46	68	eP	pmax	16 04 53.2	-0.4
KDAK	Kodiak Island	23.46	68	P	P	16 04 52.6	-1.0
USRK	Ussuriysk Ar.	23.46	253	P	P	16 04 51.2	-2.5
SUA	Susitna One	23.65	58	P	P	16 04 54.8	-0.8
TRF	Thorofare Moun	23.66	53	P	P	16 04 55.2	-0.6
CNPM	China Poot	23.74	63	I	Amb	16 04 58.0	0.0
COLD	Coldfoot	23.75	44	P	P	16 04 56.1	-0.3
G23K	Bananza Creek	23.78	45	P	P	16 04 56.2	-0.6
D23K	Nanushuk River	23.79	40	P	P	16 04 56.9	+0.1
H23K	Yukon River	23.93	47	P	P	16 04 58.4	+0.2
BRSE	Bradley Lake S	23.94	63	P	P	16 04 58.1	-0.3
C23K	Ikiklik River	23.97	38	I	Amb	16 05 01.0	0.0
C23K	Ikiklik River	23.97	38	P	P	16 04 58.5	+0.1
I23K	Minto, Yukon-K	24.01	49	P	P	16 04 58.6	-0.2
E23K	Chandler	24.05	42	I	Amb	16 05 01.9	0.0
E23K	Chandler	24.05	42	P	P	16 04 59.3	-0.1
TOLK	Toolik Lake	24.14	41	I	Amb	16 05 02.0	0.0
TOLK	Toolik Lake	24.14	41	P	P	16 05 00.1	-0.1
NEA2	Nenana	24.14	51	P	P	16 05 00.1	0.0
MCK	McKinley	24.25	53	P	P	16 05 00.7	-0.4
RND	Reindeer	24.31	53	P	P	16 05 01.6	-0.2
RND	Reindeer	24.31	53	P	P	16 05 01.6	-0.2
E24K	Your Creek	24.42	42	I	Amb	16 05 05.4	0.0
E24K	Your Creek	24.42	42	P	P	16 05 03.3	0.0
D24K	Happy Valley	24.48	39	P	P	16 05 02.8	-0.4
WAT1	Susitna Watana	24.50	55	P	P	16 05 02.5	-1.0
SEW	Seward	24.50	61	I	Amb	16 05 03.5	0.0
SEW	Seward	24.50	61	P	P	16 05 02.4	-1.1
WRH	Wood River Hill	24.57	51	I	Amb	16 05 05.7	0.0
C24K	Franklin Bluff	24.60	38	P	P	16 05 03.6	-0.7
H24K	Noodor Dome	24.62	47	P	P	16 05 04.4	-0.1
COLA	College	24.65	50	eP	pmax	16 05 04.5	-0.3
F24K	Squaw Lake	24.66	43	P	P	16 05 04.3	-0.6
CCB	Clear Creek Bu	24.68	50	I	Amb	16 05 06.6	0.0
KNK	Knik Glacier	24.74	58	I	Amb	16 05 07.0	0.0
KNK	Knik Glacier	24.74	58	P	P	16 05 05.1	-0.6
G24K	Hadweenzic Riv	24.79	45	I	Amb	16 05 07.6	0.0
G24K	Hadweenzic Riv	24.79	45	P	P	16 05 05.7	-0.3
PWL	Port Wells	24.90	59	P	P	16 05 05.8	-1.2
WAT6	Susitna	24.91	55	P	P	16 05 06.8	-0.4
BNX	BinXian	24.96	261	uP	pP	16 05 06.0	-1.7
BNX				sP	pP	16 05 15.5	+2.8
BNX				S	pP	16 09 28.8	-2.2
BNX				pmax	pmax		
BNX				LR	LR		
BNX				LR	LR		
JSD	Sado	24.96	234	P	P	16 05 07.3	-0.4
DHY	Denali Highway	25.01	54	P	P	16 05 07.3	-0.9
M23K	Glacier View	25.03	57	P	P	16 05 07.6	-0.6
HDA	Harding Lake	25.07	51	I	Amb	16 05 09.5	0.0
HDA	Harding Lake	25.07	51	P	P	16 05 07.6	-0.9
ILAR	Eielson Array	25.07	50	P	P	16 05 08.1	-0.5
ILAR				PcP	PcP	16 08 41.3	-1.3
SCM	Sheep Creek Mo	25.21	57	I	Amb	16 05 10.8	0.0
SCM	Sheep Creek Mo	25.21	57	P	P	16 05 09.4	-0.5
G25K	Bearman Lake	25.34	45	P	P	16 05 09.7	-1.2
D25K	Kavik River	25.36	39	I	Amb	16 05 13.3	0.0
D25K	Kavik River	25.36	39	P	P	16 05 10.3	-0.9
H25L	Birch Creek	25.45	46	P	P	16 05 11.8	-0.1
GLI	Glacier Island	25.49	59	P	P	16 05 11.7	-0.7
F25K	Christian River	25.52	43	P	P	16 05 12.3	-0.4
P23K	Montague Isan	25.53	61	I	Amb	16 05 15.9	0.0
P23K	Montague Isan	25.53	61	P	P	16 05 12.5	-0.3
E25K	Arctic Village	25.57	42	I	Amb	16 05 14.8	0.0

E25K	Arctic Village	25.57	42	P	P	16 05 12.8	-0.3
PRP	Porcupine Dome	25.60	48	I	Amb	16 05 14.8	0.0
PRP	Porcupine Dome	25.60	48	P	P	16 05 13.0	-0.6
K24K	Donnelly Dome	25.64	52	P	P	16 05 13.3	-0.4
FYU	Fort Yukon	25.68	46	I	Amb	16 05 15.7	0.0
M24K	Tolsona, Glenn	25.70	56	I	Amb	16 05 42.6	0.0
M24K	Tolsona, Glenn	25.70	56	P	P	16 05 13.7	-0.7
J25K	Salcha River	25.73	50	P	P	16 05 13.7	-0.9
HIN	Hinchinbrook I	25.88	60	I	Amb	16 05 16.9	0.0
PAX	Paxson	25.88	54	P	P	16 05 15.1	-1.0
KLU	Klutina	25.93	57	P	P	16 05 15.4	-1.0
BMAR	Burnt Mountain	25.93	44	P	P	16 05 16.9	+0.5
RIDG	Independent Ri	25.96	62	P	P	16 05 16.5	-1.1
DIV	Divide	26.07	58	I	Amb	16 05 18.5	0.0
F26K	Sheep River	26.10	43	P	P	16 05 17.0	-0.9
HARP	HAARP	26.12	55	P	P	16 05 17.7	-0.4
Q23K	Midleton Isla	26.19	62	P	P	16 05 18.5	-0.2
MAJO	Matushiro	26.22	232	P	P	16 05 20.2	+1.0
MAJO	Matushiro	26.22	232	I	Amb	16 05 27.3	0.0
MAJO	Matushiro	26.22	232	P	pmax	16 05 20.2	+1.0
MAJO	Matushiro	26.22	232	P	pmax	16 05 20.2	+1.0
MJAR	Matushiro Arr	26.22	232	P	P	16 05 19.6	+0.4
G26K	Porcupine Rive	26.25	45	I	Amb	16 05 20.9	0.0
G26K	Porcupine Rive	26.25	45	P	P	16 05 18.7	-0.4
C27K	Jago River	26.32	39	P	P	16 05 18.8	-1.1
SCRK	Sand Creek	26.40	52	I	Amb	16 05 20.7	0.0
SCRK	Sand Creek	26.40	52	P	P	16 05 19.5	-1.3
J26L	Joseph Creek	26.52	50	P	P	16 05 21.3	-0.5
N25K	Chitina, Valde	26.53	57	P	P	16 05 21.7	-0.2
I26K	Coal Creek Min	26.61	48	P	P	16 05 22.7	+0.2
BMRM	Bremner River	26.66	58	I	Amb	16 05 24.5	0.0
BMRM	Bremner River	26.66	58	P	P	16 05 22.9	-0.1
RAGM	Ragged Mountain	26.76	60	I	Amb	16 05 26.9	0.0
KAIM	Kayak Island	27.00	61	I	Amb	16 05 27.6	0.0
KAIM	Kayak Island	27.00	61	P	P	16 05 26.6	+0.5
E27K	Coleen River	27.06	42	P	P	16 05 26.8	+0.3
G27K	Doyon Strip	27.09	45	P	P	16 05 26.8	-0.1
M26K	Nabesna, AK	27.11	55	I	Amb	16 05 28.9	0.0
M26K	Nabesna, AK	27.11	55	P	P	16 05 27.5	+0.4
H27K	Steamboat Moun	27.19	46	I	Amb	16 05 29.8	0.0
H27K	Steamboat Moun	27.19	46	P	P	16 05 27.9	+0.1
I27K	Kandik River	27.22	48	P	P	16 05 27.5	-0.6
K27K	Chicken	27.23	51	P	P	16 05 27.9	-0.2
SUCK	Suckling Hills	27.28	60	I	Amb	16 05 30.4	0.0
D27M	Malcolm River	27.28	40	P	P	16 05 28.8	+0.2
MCARA	McCarthy VSAT	27.31	57	I	Amb	16 05 32.3	0.0
MCARA	McCarthy VSAT	27.31	57	P	P	16 05 29.0	+0.1
JGF	Kuroka	27.38	232	P	P	16 05 29.6	-0.1
JGF				I	Amb	16 05 38.2	0.0
CROM	Cirque	27.41	58	I	Amb	16 05 31.3	0.0
CRQE	Cirque	27.43	58	P	P	16 05 30.3	+0.2
L27K	Beaver Creek	27.51	53	I	Amb	16 05 32.2	0.0
L27K	Beaver Creek	27.51	53	P	P	16 05 31.2	+0.6
BCAR	Beaver Creek A	27.52	53	P	P	16 05 31.0	+0.2
M27K	Edge Creek, AK	27.63	55	I	Amb	16 05 33.7	0.0
M27K	Edge Creek, AK	27.63	55	P	P	16 05 32.1	+0.3
F28M	Old Cretaceous	27.73	43	P	P	16 05 32.8	+0.2
E28M	Babbage River	27.81	41	P	P	16 05 33.2	0.0
I28M	Miner Creek	27.93	48	I	Amb	16 05 36.2	0.0
I28M	Miner Creek	27.93	48	P	P	16 05 34.5	+0.1
BVCY	Beaver Creek	28.08	54	P	P	16 05 35.9	+0.2
CTG	Chitina Glacier	28.21	57	P	P	16 05 36.7	-0.3
CTGM	Chitina Glacie	28.21	57	I	Amb	16 05 38.5	0.0
DAWY	Dawson	28.39	51	P	P	16 05 37.8	-0.7
YUK3	Moose Creek	28.41	56	P	P	16 05 39.0	+0.1
E29M	Blow River	28.42	41	P	P	16 05 38.7	0.0
H29M	Whitestone	28.46	46	I	Amb	16 05 40.8	0.0
H29M	Whitestone	28.46	46	P	P	16 05 39.2	+0.1
G29M	Pine Creek	28.52	45	I	Amb	16 05 41.7	0.0
G29M	Pine Creek	28.52	45	P	P	16 05 39.9	+0.3
I29M	Ogilvie Camp	28.62	48	I	Amb	16 05 41.6	0.0
I29M	Ogilvie Camp	28.62	48	P	P	16 05 41.0	+0.5
O28M	Mount Upton	28.80	58	I	Amb	16 05 43.7	0.0
O28M	Mount Upton	28.80	58	P	P	16 05 42.3	-0.1
J29N	Klonkie Camp	28.82	50	P	P	16 05 43.0	+0.6
YUK9	Steele Glacier	28.86	56	P	P	16 05 43.3	+0.4
PINM	Pinnacle	28.97	59	P	P	16 05 43.9	+0.3
EPYK	Eagle Plains	29.10	46	I	Amb	16 05 46.2	0.0
EPYK	Eagle Plains	29.10	46	P	P	16 05 45.3	+0.5
L29M	L29M	29.14	52	I	Amb	16 05 47.1	0.0
L29M	L29M	29.14	52	P	P	16 05 46.3	+1.1
M29M	Somme Creek	29.15	54	I	Amb	16 05 47.2	0.0
M29M	Somme Creek	29.15	54	P	P	16 05 46.4	+1.0
G30M	tAoh Zraii Nji	29.21	44	I	Amb	16 05 46.9	0.0
G30M	tAoh Zraii Nji	29.21	44	P	P	16 05 45.6	-0.2
K29M	Barlow Dome	29.24	51	P	P	16 05 46.0	-0.1

F30M	Barrier River	29.29	43	P	P	16 05 46.4	0.0
YUK4	Talbot Arm	29.36	56	P	P	16 05 47.5	+0.1
I30M	Mount Dempster	29.44	48	I	Amb	16 05 48.9	0.0
I30M	Mount Dempster	29.44	48	P	P	16 05 47.5	-0.4
PNL	Peninsula	29.51	59	P	P	16 05 48.5	+0.1
H3							

25d 15h

Table with columns for call sign, frequency, power, and other technical details. Includes stations like ZALV, NLWA, E03A, SPITS, SPB2, etc.

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Table with columns for call sign, frequency, power, and other technical details. Includes stations like PDAR, KIRV, KIRV, DUG, SFJD, etc.

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Table with columns for call sign, frequency, power, and other technical details. Includes stations like ANMO, HFS, SCHO, LPSR, etc.



KHC	Kasperske Hory	72.13 340d	p	pmax	16 11 10.1 +1.4
KHC		comp=2.3,0nm,1.1s			
FPAL	Fort Paine	72.14 54	Iamb	Iamb	16 11 09.4
CFR	Carroll	72.14 54	Iamb	Iamb	16 11 09.4
Y49A	Blount Mountain	72.34 329	Iamb	Iamb	16 11 10.5
GERES	GERESS Array B	72.38 340	p	pmax	16 11 10.6 +0.3
GERES		comp=2.2,2nm,0.7s,baz=35,slow=4.9,SNR=15			
GERES	GERESS Array B	72.38 340	eP	pmax	16 11 11.1 +0.8
GERES		comp=2.3,3nm,1.8,3s,baz=15,slow=4			
MLR	Muntele Rosu	72.67 330	LR	LR	16 45 30.9
MLR		comp=2.5,0nm,1.9,7s,baz=61,slow=36			
MLR	Conrad Observa	72.82 338	iP	pP	16 11 13.9 +1.9
CONA		comp=2.4,2nm,0.7s			16 11 14.5 -1.1
RONA	Rosalia, Austr	72.95 338	iP	pP	16 11 15.5 -0.8
VOIR		72.96 331	Iamb	Iamb	16 11 14.5
BG3	Lake Jocassee	72.96 52	Iamb	Iamb	16 11 14.5
SIRR	Siria	73.07 334	Iamb	Iamb	16 11 18.3 -5.9
BIOA	Bad Ischi, Aus	73.50 340	eP	pP	16 11 08.4 -1.0
ARSA	Arzberg	73.54 338	eP	pP	16 11 18.5 -1.2
GZR	Gura Zlata	73.60 333	Iamb	Iamb	16 11 15.6 -1.9
BZS	Buzias	73.61 333	Iamb	Iamb	16 11 15.7 -2.2
HODGE	Hodges	73.90 52	Iamb	Iamb	16 11 19.8
SOKA	Sotho	74.19 338	iP	pP	16 11 17.8 -2.2
WATA	Waldersalm	74.23 341	iP	pP	16 11 23.0 -1.0
RETA	Reutte	74.23 341	eP	pP	16 11 22.1 +0.9
WTTA	Wattenberg	74.29 341	iP	pP	16 11 23.0 +1.4
MOTA	Moosalm	74.31 341	iP	pP	16 11 22.3 +0.6
ILGA	ilgaz	74.32 323	Iamb	Iamb	16 11 25.8
SQTA	Sankt Quirin	74.41 341	iP	pP	16 11 23.7 -1.2
OBKA	Obir	74.45 339	iP	pP	16 11 23.8 +1.4
MYKA	Terra Mystica	74.52 339	eP	pP	16 11 22.6 -0.9
DAVA	Damuels	74.58 342	eP	pP	16 11 22.0 -1.3
ABTA	Abfattersbach	74.62 340	iP	pP	16 11 24.1 +0.6
MSVF	Nonsavu	74.64 166	LR	LR	16 43 40.8
FETA	Feichten	74.69 341	iP	pP	16 11 25.2 +1.3
PRED	Cave del Predi	74.71 339	Iamb	Iamb	16 11 25.3
DAVOX	Davos/Dischmat	75.07 342	p	pmax	16 11 27.0 +0.8
DAVOX		comp=2.4,0nm,0.7s,baz=54,slow=5.6,SNR=6.7			
DAVOX	Davos/Dischmat	75.07 342	p	pmax	16 11 27.0 +0.8
BOVS	Bovan	75.52 333	Iamb	Iamb	16 11 28.9 +0.3
BR101	Keeskin Array S	75.53 323	p	pmax	16 11 29.4 +0.5
BRTR	Keeskin Array B	75.53 323	p	pmax	16 11 28.4 -0.5
BRTR	Keeskin Array B	75.53 323	p	pmax	16 11 28.7 -0.2
BRTR		comp=2.1,1nm,0.7s,baz=45,slow=3.7,SNR=7.5			
KIRS	Kirschmerke	75.97 322	Iamb	Iamb	16 11 31.3 -0.1
FDMO	Fjordmonte	76.09 339	Iamb	Iamb	16 11 45.3
WB0	Warramunga Arr	78.09 208	p	pmax	16 11 52.4 +0.4
WB0		comp=2.6,5nm,1.0s			16 12 00.5
WRA	Warramunga Arr	78.09 208	p	pmax	16 11 53.2 +0.2
WRA		comp=2.4,8nm,1.0s,baz=20,slow=5.7,SNR=15			
WRA	Warramunga Arr	78.09 208	eP	pmax	16 11 53.6 +0.6
WRA		comp=2.5,0nm,1.0s			
MMAI	Mount Meron Arr	80.92 318	p	pmax	16 11 58.8 +0.1
MMAI		comp=2.2,8nm,0.7s,baz=13,slow=7.9,SNR=4.7			
BALJ	Balja	81.66 318	p	pmax	16 12 02.5 -0.1
MVO	Mconcorvo	82.67 353	eP	pP	16 12 09.5 +1.6
VAE	Valguarnera	83.11 336	LR	LR	16 57 47.3
PVIS	Visu	83.17 354	eP	pP	16 12 11.3 +0.8
PPT	Papeete	83.25 136	LR	LR	16 39 37.9
PPT2	Papeete2	83.27 136	eLR	LR	16 38 16.7
AS31	Alice Springs	83.54 207	p	pmax	16 12 12.8 +0.6
ASAR	Alice Springs	83.54 207	p	pmax	16 12 12.6 +0.3
ASAR	Alice Springs	83.54 207	p	pmax	16 12 13.2 +0.8
ESDC	Sonsec Array	83.91 351	p	pmax	16 12 14.7 +0.4
ESDC		comp=2.3,8nm,0.8s,baz=13,slow=4.7,SNR=30			
PCBR	Castello Branco	84.02 353	eP	pP	16 12 15.7 +1.0
EIL	Elat	84.08 317	LR	LR	16 54 10.3
PMTG	Montargil	84.83 354	eP	pP	16 12 19.1 +0.3
PESTR	Estremoz	84.89 353	eP	pP	16 12 20.3 +0.6
RAYN	Ar Rayn	85.09 306	p	pmax	16 12 19.9 -0.6
RAYN		comp=2.4,4nm,0.6s			
RAYN	Ar Rayn	85.09 306	p	pmax	16 12 19.9 -0.6
RAYN		comp=2.4,0nm,0.6s			
EVO	Evora	85.35 354	eP	pP	16 12 22.4 +0.9
PBAR	Barrancos	85.64 353	eP	pP	16 12 23.7 +0.8
MORF	Marmelete	86.61 354	eP	pP	16 12 27.3 -0.5
STKA	Stephens Creek	89.79 199	eP	pmax	16 12 43.5 +0.9
STKA		comp=2.2,2nm,0.7s,baz=35,slow=5.1,SNR=7.2			
STKA	Stephens Creek	89.79 199	eP	pmax	16 12 44.0 +1.4
STKA		comp=2.4,0nm,0.8s			
MAW	Mawson	143.81 220	PKP	PKPcb	16 19 16.8 +1.0
MAW		comp=2.2,1nm,0.8s,baz=347,slow=4.3,SNR=5.8			
GSPA	South Pole Qui	145.98 180	PKPcb	PKPcb	16 19 21.7 -0.2
GSPA		comp=2.6,4nm,0.7s,baz=322,slow=0.3,SNR=36			
SNAAR	Sanae	163.51 195	PKPcb	PKPcb	16 20 36.1 -1.2
SNAAR		comp=2.0,7nm,0.8s,baz=226,slow=5.1,SNR=5.5			

TAP 25 16:06:10.8,23.76N,122.97E,h42km,ML3.9,D  
 ISC 25 16:06:06.1,1.2,23.69N,0.02,122.97E,0.02,h6km,gkm,  
 n176,e099/329,2D,Taiwan region

Code	Station Name	Δ°	AZ°	Phase ID	Time Res	ISC
Code	Station Name	Δ°	AZ°	Phase ID	Time Res	ISC
EOSA	EOSA	0.74	306	iP	16 06 24.1 +1.5	Pn
EC54	YONG	0.76	358	p	16 06 34.7 +0.7	S
JYNG	Yonagunijimaku	0.77	3	S	16 06 34.3 -0.8	Sn
YOJ	Yonaguni jima	0.77	3	S	16 06 24.6 +1.1	S
YOJ	Yonaguni jima	0.77	3	S	16 06 35.1 -0.3	S
YOJ	Yonaguni jima	0.77	3	S	16 06 24.6 +1.1	S
YOJ	Yonaguni jima	0.77	3	iP	16 06 38.4 +1.1	S
YOJ	Yonaguni jima	0.77	3	iP	16 06 24.6 +1.1	S
YOJ	Yonaguni jima	0.77	3	iP	16 06 34.8 -0.6	S
EOSS	EOSS3	0.84	315	p	16 06 26.5 +2.2	S
EOSS					16 06 38.2 +1.3	S
HATJ	Haterama Jima	0.85	64	p	16 06 26.7 +2.1	S
HATJ					16 06 27.8 +1.9	S
IRIF	Iriomote-Funau	0.95	47	p	16 06 29.3 +2.9	S
EOSS	EOSS2	0.99	317	eP	16 06 42.1 +1.4	S
JKRS	Kuro-shima	1.10	60	p	16 06 30.4 +2.5	S
JJU	Ishigaki jima	1.27	58	p	16 06 32.2 +1.8	S
TEYL	Yanaiu Villag	1.27	278	p	16 06 31.9 +1.4	S
TEYL					16 06 47.4 -0.3	S
HWA	Hwaiien	1.28	283	p	16 06 31.7 +1.0	S
HWA					16 06 48.0 0.0	S
SHUL	Shouteng	1.29	275	p	16 06 31.8 +0.9	S
SHUL					16 06 32.9 +0.1	S
EAHA	Aohua	1.29	300	iP	16 06 32.5 +1.6	S
EAHA					16 06 49.2 +0.9	S
TEGC	Jichi Village	1.31	271	p	16 06 32.2 +1.0	S
TEGC					16 06 48.8 +0.2	S
TWD	Chiawan	1.32	288	eP	16 06 31.7 +0.4	S
HATJ	Fush Village	1.32	291	eP	16 06 32.4 +1.0	S
ETL					16 06 48.3 -0.2	S
EWUT	Wuta	1.32	305	iP	16 06 32.7 +1.2	S
EWUT					16 06 48.8 -0.2	S
ENAA	Nanau	1.34	304	p	16 06 32.9 +1.0	S
ENAA					16 06 40.0 +0.7	S
NACB	Ninganchiao	1.35	291	p	16 06 32.2 +0.3	S
NACB					16 06 32.4 +0.5	S
NACB					16 06 48.1 -1.1	S
ESAO	Su ao	1.36	311	p	16 06 32.9 +0.8	S
TWFC	Suao	1.38	312	p	16 06 31.9 +1.0	S
ETM	Tongmen	1.38	282	p	16 06 32.9 +0.3	S
ETM					16 06 49.2 -1.0	S
EGFH	Guangfu	1.41	270	p	16 06 33.6 +0.4	S
EGFH					16 06 51.1 0.0	S
ESL	Shilin	1.41	275	p	16 06 33.0 -0.2	S
ESL					16 06 34.9 +0.2	S
HGSD	Ruisui	1.43	263	eP	16 06 33.4 -0.1	S
HGSD					16 06 50.1 -1.5	S
ECBN	Changbin	1.44	255	p	16 06 34.2 +0.5	S
ECBN					16 06 51.4 -0.5	S
WARBT	Fenglin Townsh	1.45	272	iP	16 06 33.0 0.0	S
WARBT					16 06 57.8 -1.4	S
ETHL	Xiulin Townshi	1.46	291	eP	16 06 33.9 -0.1	S
ETHL					16 06 51.5 -0.9	S
LXIB	Xiulin Townshi	1.46	283	p	16 06 34.4 +0.2	S
LXIB					16 06 52.4 -0.2	S
NDS	Dongshan	1.48	310	p	16 06 34.7 +0.2	S
NDS					16 06 53.5 -0.3	S
EGS		1.49	321	eP	16 06 35.1 +0.4	S
EGS					16 06 54.8 +0.8	S
EHYH	Wanrong	1.50	263	p	16 06 35.3 +0.4	S
EHYH					16 06 53.6 0.0	S
JWSG	Ishigakijimahi	1.52	54	p	16 06 35.9 +0.2	S
EHY	Hungye	1.52	264	p	16 06 35.5 +0.2	S
EHY					16 06 52.6 -1.3	S
CHKH	Chenggong	1.53	251	p	16 06 34.8 +0.1	S
CHKH					16 06 52.7 -1.3	S
EYUL	Yuli	1.55	258	p	16 06 34.7 +0.3	S
EYUL					16 06 54.8 -0.2	S
YULB	Yu-li	1.56	260	p	16 06 36.3 +0.3	S
YULB					16 06 36.0 0.0	S
YULB					16 06 54.6 -0.3	S
LATG	Datong	1.57	303	p	16 06 36.5 +0.4	S
LATG					16 06 57.9 -0.8	S
TWF1	Yuli	1.57	258	p	16 06 35.9 -0.3	S
TWF1					16 06 55.3 -0.3	S
TWE	Neicheng	1.57	311	p	16 06 37.1 +0.9	S
TWE					16 06 56.5 -0.1	S
CHKT	Chengkung	1.58	249	p	16 06 35.7 -0.1	S
CHKT					16 06 58.3 +1.3	S
TWB1	Santiao Chiao	1.59	326	p	16 06 36.8 +0.2	S
ENTT	Nioudou	1.59	307	p	16 06 36.9 +0.2	S
ENTT					16 06 56.6 +0.7	S
FULB	Fulli	1.61	253	p	16 06 36.2 -0.1	S
FULB					16 06 55.1 -1.1	S
FULB	Hehuan Shan	1.62				

25d 16h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PTMZ Houxiangcun, XPSS Dashiqiu, KNM Kinmen, etc.

IDC 25 16:06:12.2,330.0,57.51N:29.58E,h0km, Error ellipse: s-maj=128.6km s-min=58.4km az=97.0, Baltic States-Belarus-Northwestern Russia

IDC 25 16:12:40.2,1.0,2.73S:138.51E,h0km,mb3.7/5, mbtmp3.7/8,ML3.7/3, Error ellipse: s-maj=23.0km s-min=17.3km az=101.0

IDC 25 16:12:42.9,0.3,3.3S:4.13E,h10km,M3.9/7,mb4.2/3, MLv3.7/7

IDC 25 16:12:41.6,0.7,2.72S:0.07:138.57E:0.05,h10km,n14, a1542/17,mb3.7/5,Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SMPI Sarmi, GENE Genyep, JAY Jayapura, etc.

IDC 25 16:15:03.3:330.0,57.81N:29.79E,h0km, Error ellipse: s-maj=129.4km s-min=100.3km az=99.0, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like I43RU DUBNA INFRASON, I37NO I37NO, I26DE FREYUNG INFRAS13.0, etc.

IDC 25 16:16:21.7,2.5,56.22N:164.73E,h0km,mb3.4/5, mbtmp3.3/6,ML2.1/1,MS2.7/2, Error ellipse: s-maj=61.0km s-min=25.6km az=148.0

KRSC 25 16:16:21.7,2.5,56.17N:164.72E,h47km,19km,ML3.9

IDC 25 16:16:22.1,0.8,56.18N:0.05:164.64E:0.04,h10km,n37, a1564/39,mb3.4/5,Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, etc.

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0.6nm,0.6s
SGS 25 16:21:19.4,29.46N:32.37E,h18km,M3.1
GII 25 16:21:20.5,0.0,29.322N:0.003:32.692E:0.001, h1km,Mws3.6/6,confirmed
HLW 25 16:21:24.0,29.34N:32.92E,h7km,Md2.6,Ml2.9
ISC 25 16:21:23.1,2.1,29.31N:0.003:32.91E:0.04,h2km,n11km, n60,a1917/64,Egypt

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ZNM Zenema, ZAF Zafarana, HRD Abu Rudays, etc.

IDC 25 16:22:02.1,1.0,32.03S:178.59W,h0km,mb4.1/4, mbtmp4.1/4,MS3.0/2, Error ellipse: s-maj=37.7km s-min=27.9km az=59.0

NEIC 25 16:22:07.1,2.3,31.74S:0.04:178.4W:0.2,h35km,2km, mb4.4/9, Error ellipse: s-maj=31.8km s-min=3.8km az=100.0

ISC 25 16:22:03.4,0.8,31.8S:0.1:178.6W:0.1,h10km,n33, a1506/27,mb4.5/12,SC,Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like RAO Raoul Island, URZ Urewera, URZ Urewera, etc.

1612

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MXZ Matakaoa Point, WMGZ Waiomatatini S, WMGZ Te Kaha, etc.

IDC 25 16:33:16.1:1.1,28.33N:104.99E,h0km,mb3.8/8, mbtmp3.7/10,ML3.6/2, Error ellipse: s-maj=26.1km s-min=21.7km az=42.0

NEIC 25 16:33:19.2:1.0,28.52N:0.06:104.9E:0.1,h10km,2km, mb4.5/9, Error ellipse: s-maj=21.3km s-min=10.4km az=259.0

ISC 25 16:33:19.5:0.7,28.36N:0.09:104.9E:0.1,h19km,n24, a084/24,mb3.9/12,Sichuan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ENH Enshi Array, CMAR Chiang Mai Arr, SONM Songoing Array, etc.

IDC 25 16:33:38.3:1.0,28.43N:104.78E,h0km,mb3.9/9, mbtmp3.9/11,ML3.6/2, Error ellipse: s-maj=25.8km s-min=19.1km az=56.0

NEIC 25 16:33:40.9:1.0,28.51N:0.10:104.71E:0.07,h10km,1km, mb4.7/17, Error ellipse: s-maj=16.6km s-min=9.5km az=169.0

ISC 25 16:33:43.2:0.5,28.41N:0.08:104.74E:0.08,h35km,n32, a080/32,mb4.2/18,Sichuan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ENH Enshi Array, QIZ Qiongzhong, CMAR Chiang Mai Arr, etc.







25d 20h

Table with columns: Station, Frequency, Mode, Power, and other technical details. Includes stations like AC02, LPAZ, LAZ, etc.

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Table with columns: Station, Frequency, Mode, Power, and other technical details. Includes stations like HLID, PLID, K05A, etc.

1616

Table with columns: Station, Frequency, Mode, Power, and other technical details. Includes stations like YAK, MKAR, MAZK, etc.







ILAR Eielson Array 85.91 24 P P 21 42 31.4 -1.4
comp=Z:1.1nm,0.7s,baz=269,slow=4.5,SNR=11
QSPA South Pole Qui 87.17 180 P Iamb P 21 42 38.8 -0.2
comp=Z:1.1nm,0.7s

IDC 25 21:35:40.0, 1.0, 2.69S; 138.55E; h0km, mb3.8/5,
mbmp3.8/8, ML3.7/3, MS3.2/12, Error ellipse:
s-maj=23.6km s-min=15.6km az=169.0

NEIC 25 21:35:43.0, 1.1, 2.63S; 0.07E; 138.60E; 0.06, h1(0km), 1km,
mb4.2/12, Error ellipse: s-maj=13.4km s-min=7.6km
az=215.0

DJA 25 21:35:44.2, 0.5, 2.54E; 13.93E; h12km, 5km, M4.2/8,
mb4.4/3, MLV4.2/8

ISC 25 21:35:42.0, 0.6, 2.68S; 0.05E; 138.64E; 0.06, h10km, n47,
o=182/38, mb4.1/9, MS3.2/10, Irian Jaya

Code Station Name Az AZZ Phase ID Time Res
SMPI Sarmi 0.69 6 Op P ISC h m s ISC
SMPI Sarmi 2.53 288 P P 21 36 00.7 -3.6
GENI Genyem 1.53 87 P Pn 21 36 11.4 +2.0

Code Station Name Az AZZ Phase ID Time Res
JAY Jayapura 2.07 86 P Pn 21 36 17.9 +1.0
SRPI Serui, Papua 2.53 288 P Pn 21 36 22.6 -0.6
BAKI Biak 2.93 300 S Sn 21 37 05.5 +1.5

Code Station Name Az AZZ Phase ID Time Res
TOL2 Tolitoli 18.25 282 LR LR 21 49 59.3 +0.3
KAPI Kapang 18.89 262 LR LR 21 48 59.3
FITZ Fitzroy Crossi 19.93 219 P P 21 40 14.8 +0.6

Code Station Name Az AZZ Phase ID Time Res
AS31 Alice Springs 21.36 192 P Iamb P 21 40 30.7 +0.9
ASAR Alice Springs 21.36 192 P P 21 40 29.1 -0.6
ASAR Alice Springs 21.36 192 P P 21 40 28.6 -1.1

Code Station Name Az AZZ Phase ID Time Res
HNR Honiara 22.21 109 LR LR 21 49 11.7
STKA Stephens Creek 29.18 175 LR LR 21 55 08.1
NWA0 Narragin (SRO) 36.17 211 LR LR 21 57 25.2

Code Station Name Az AZZ Phase ID Time Res
PETK Petropavlovsk- 57.84 13 LR LR 22 06 15.4
MA2 Magadan 62.80 7 LR LR 22 12 54.8
MKAR Makanchi Array 69.72 322 P P 21 46 51.7 -0.6

Code Station Name Az AZZ Phase ID Time Res
TIXI Tiksi 74.47 357 LR LR 22 17 27.3
L19K White Mountain 81.61 26 P Iamb P 21 48 02.5 +0.6
MLY Manley 84.34 24 P Iamb P 21 48 15.0 +0.8

Code Station Name Az AZZ Phase ID Time Res
ABKAR Akbulak array 84.65 320 P P 21 48 16.2 +0.2
ILAR Eielson Array 85.83 24 P P 21 48 20.2 -1.4
QSPA South Pole Qui 87.27 180 P P 21 48 29.4 +0.6

Code Station Name Az AZZ Phase ID Time Res
BMAR Burnt Mountain 87.40 22 P P 21 48 29.8 +0.5
H27K Steamboat Moun 88.33 24 P P 21 48 34.5 +0.7
BBB Bella Bella 94.09 38 LR LR 22 24 37.4

Code Station Name Az AZZ Phase ID Time Res
AAK Ala-Archa 6.33 18 Op Pn 21 38 56.8 -5.0
AAK Ala-Archa 6.33 18 Op Pn 21 40 13.8 -0.5
KK31 Karatay Array 6.54 351 Pn Pn 21 38 55.8 -8.7

Code Station Name Az AZZ Phase ID Time Res
MKAR Makanchi Array 12.78 34 P P 21 40 24.6 -0.2
KURBB Kurchatov Arra 14.78 17 P P 21 40 50.6 +0.2
ZALV Zalesov Beam 19.50 23 P P 21 41 42.7 +0.7

Code Station Name Az AZZ Phase ID Time Res
ARCES ARCESS Array B 41.29 337 P P 21 44 56.6 +1.0

RSNC 25 21:38:30.0, 0.5, 16.1N; 3.84W; h0km, M3.1, MB4.1,
Mjma3.9, ML4.2, ML3.1, MLH3.7, MLV4.1, Ms(BB)3.7,

Code Station Name Az AZZ Phase ID Time Res
TGUW Tegucigalpa,Un 3.83 231 P Op ISC h m s ISC
TGUW Tegucigalpa,Un 3.83 231 P S Sn 21 40 14.8 -1.3

IDC 25 21:40:42.8, 4.0, 15.94S; 176.71W, h411km, 31km, mb3.4/3,
mbmp4.4/1, Error ellipse: s-maj=50.4km s-min=35.4km
az=23.0

ISC 25 21:40:40.9, 2.1, 15.75S; 0.4E; 176.6W; 0.3, h400km, n6,
o=57/5, mb3.6/3, Fiji Islands region

Code Station Name Az AZZ Phase ID Time Res
MSVF Nonsavu 5.52 248 P Op ISC h m s ISC
WRA Warramanga Arr 46.75 27 P P 21 48 32.1 -0.5
ASAR Alice Springs 47.0 252 P P 21 48 34.7 -0.3

Code Station Name Az AZZ Phase ID Time Res
GSPA South Pole Qui 74.31 180 P P 21 51 35.6 -0.1
ARCES ARCESS Array B 124.47 351 PKP PKPdf 21 58 53.0 +0.3
BRTR Keskin Array B 144.42 318 PKP PKPbc 21 59 31.9 +1.6

IDC 25 21:48:49.5, 2.0, 30.31S; 178.19W, h0km, mb3.6/3,
mbmp3.6/3, Error ellipse: s-maj=63.7km s-min=37.4km
az=47.0, Kermadec Islands

Code Station Name Az AZZ Phase ID Time Res
ASAR Alice Springs 42.95 267 P Op ISC h m s ISC
WRA Warramanga Arr 43.93 272 P P 21 56 58.1 -0.2
GSPA South Pole Qui 59.80 180 P P 21 58 56.6 +0.2

Code Station Name Az AZZ Phase ID Time Res
FINES FINES Array B 145.00 340 PKPbc PKPbc 22 08 25.4 -1.9

JMA 25 21:54:57.2, 0.2, 24.0N; 0.9E; 123.3E; h35km, NW OFF
ISHIGAKIJIMA IS, Taiwan region

Code Station Name Az AZZ Phase ID Time Res
YOJ Yonaguni jima 0.53 35 Op S Sn 21 55 15.6 -0.5
IRIF Iriomote-Funau 1.01 72 P Pn 21 55 14.9 0.0

TAP 25 21:55:07.1, 24.73N; 121.01E, h7km, ML1.6, B, Taiwan

Code Station Name Az AZZ Phase ID Time Res
HSN1 Hsinchu 0.04 6 P P Sg 21 55 09.1 +0.6
HSN1 Hsinchu 0.04 6 P P Sg 21 55 07.1 +1.1
SBCB Hsinchu 0.06 337 P P Sg 21 55 09.5 +0.7

IDC 25 22:24:22.4, 0.5, 57.90S; 25.26W, h0km, mb4.4/10,
mbmp4.4/11, ML4.6/1, MS3.6/19, Error ellipse:
s-maj=24.4km s-min=15.2km az=64.0

NEIC 25 22:24:27.8, 1.0, 58.0S; 0.1E; 25.3W; 0.2, h35km, 1km,
mb4.9/31, Error ellipse: s-maj=21.2km s-min=12.8km
az=47.0

ISC 25 22:24:27.5, 0.3, 58.05S; 0.07E; 25.26W; 0.09, h35km, n341,
o=073/312, mb4.7/21, MS3.6/17, 10C-1D, South Sandwich
Islands region

Code Station Name Az AZZ Phase ID Time Res
HOPE Hope Point 7.32 296 P Pn 22 26 16.5 +4.7
VNA1 Neumayer-Stat 14.54 157 P Pn 22 27 51.0 +0.7
VNA1 Neumayer-01pp 14.75 160 P Pn 22 27 53.0 -0.2

Code Station Name Az AZZ Phase ID Time Res
VNA2 Neumayer-Watz 14.94 157 P Pn 22 27 56.1 +0.4
VNA2 Neumayer-02 14.94 157 P Pn 22 27 56.1 +0.4
VNA2 Neumayer-03 14.94 157 P Pn 22 27 56.1 +0.4

Code Station Name Az AZZ Phase ID Time Res
TROLL Troll, Antarti 17.98 152 P Pn 22 28 36.8 +2.1
PMSA Palmer Station 19.47 234 LR LR 22 31 42.7 -1.1
EFI East Falkland 19.78 275 P Pn 22 28 55.9 -0.2

Code Station Name Az AZZ Phase ID Time Res
MG02 Cerro Sombrero 25.15 263 P P 22 29 48.8 -0.2
G009 Cerro Castillo 27.57 254 P P 22 30 10.5 +0.4

Code Station Name Az AZZ Phase ID Time Res
QSPA South Pole Qui 32.20 180 P P 22 30 53.7 +1.8

PLCA Paso Flores 33.41 281 P P 22 31 02.0 -0.6
PLCA Paso Flores 33.41 281 P P 22 31 02.8 +0.1
PLCA Paso Flores 33.41 281 P P 22 31 02.7 +0.1

PLCA Paso Flores 37.92 141 P P 22 31 41.1 +0.4
MAW Sao Paulo 37.93 326 P LR 22 45 12.0
SPB Sao Paulo 37.93 326 P Iamb P 22 31 41.1 -0.2

CPUP Villa Florida 38.92 311 P P 22 31 48.6 -1.1
CPUP Villa Florida 38.92 311 P P 22 31 48.8 -0.9
CPUP Villa Florida 38.92 311 P P 22 31 49.0 -0.7

MT09 Talagante 38.94 288 P Iamb P 22 31 49.4 -0.6
SJPY San Joaquin 39.63 313 eP P 22 31 53.6 -2.1
TRCB Terra Rica 40.36 319 P P 22 32 02.3 +0.6

BDQN Bodoquena, MS 44.00 315 eP P 22 32 30.4 -1.0
SBA Scott Base 44.15 184 P Iamb P 22 32 33.4 +1.4
SBA Scott Base 44.15 184 P Iamb P 22 32 33.5

C2SB Chapadão do Su 44.16 321 eP P 22 32 33.4 +0.8
VND Vanda 44.62 182 P P 22 32 37.5 +1.2
VND Vanda 44.62 182 P P 22 32 37.8 +1.2

BOSA Boshof 45.51 72 LR LR 22 47 41.3
CCD Concordia, Ant 45.51 169 P P 22 32 43.0 -0.3
BDFB Brasilia 45.63 329 P P 22 32 44.2 -0.2

H04S2 CROZET ISLANDS 45.81 111 T T 22 33 16.6
H04S3 CROZET ISLANDS 45.81 111 T T 22 33 22.1
H04S1 CROZET ISLANDS 45.82 111 T T 22 33 19.1

ARAG Aracaju, MS 46.69 324 eP P 22 33 52.9 -0.2
SALV Santo Antonio 47.40 319 P P 22 33 01.4 +0.1
SDBA SAO DESIDERIO 47.93 334 eP P 22 33 03.0 +0.6

H10N2 ASCENSION HYDR60.78 14 T T 22 39 13.7
H10N1 ASCENSION HYDR60.77 14 T T 22 39 11.6
H10N3 ASCENSION HYDR60.78 14 T T 22 39 15.2

CASY Casey 51.66 159 P P 22 33 29.7 -0.5
SMTB Santa Maria do 52.00 102 eP P 22 33 34.2 +1.0
PDRB Porto dos Gas 52.14 320 eP P 22 33 33.8 -0.5

LPAZ La Paz 52.39 304 P P 22 33 35.7 -1.1
LPAZ La Paz 52.39 304 P P 22 34 47.4 -0.1
LPAZ La Paz 52.39 304 P P 22 34 47.4 -0.1

LPAZ La Paz 52.39 304 P P 22 33 35.4 -1.5
LPAZ La Paz 52.39 304 P P 22 33 35.8 -1.1
CLDB Colider 52.51 621 eP P 22 33 36.4 -0.7

PRPB Parauapebas 55.16 330 eP P 22 33 57.5 +1.1
NPGB Novo Progresso 55.96 323 eP P 22 34 01.9 -0.2
LSZ Lusaka 58.17 66 eP LR 22 35 51.9

ITTB Itaituba 58.60 324 eP P 22 34 20.5 -0.3
MAL2 Monte Alegre, 60.35 326 eP P 22 34 32.7 -0.1
MACA Manacapuru-AM 61.38 319 P P 22 34 38.2 -1.6

MDP Montargues 66.70 330 LR LR 22 33 05.6
COHC Cochancya 69.61 300 P P 22 35 02.0 -0.1
TORD Torodi Arr. Be 74.32 27 Iamb P 22 35 02.3

25d 22h

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1620

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Station Type, and Remarks. Includes stations like ASAR Alice Springs, KEST Kesra, PDAR Pinedale Array, etc.

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Station Type, and Remarks. Includes stations like HARP HAARP, I26K Coal Creek Min, KLU Klutina, etc.

Table with columns: Station Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Station Type, and Remarks. Includes stations like L19K White Mountain, J20K Nowinta River, N18K Kila Creek, etc.

WEL 25 22:25:33.2±1.1, 39°S±14'±175E±1', h203km, 7km, M2.4/12, ML2.3/12, MLV2.4/12, Error ellipse: s-maj=18.9km s-min=14.0km az=175, confirmed,

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, Phase ID, Time Res, and Res. Includes stations like VERA Vera Road, TW2W Taurewa, COVZ Chateau Observ, etc.

Table with columns: ODZ, Otahua Downs, 6.74 206, P, Pn, 22 27 05.5 -4.3; JCZ, Jackson Bay, 6.76 220, P, Pn, 22 27 04.4 -5.8

DJA 25 22:26:41.9, 0.5, 5°S, 3°10'E, h34km, 8km, M4, 6/14, mB5, 2/3, mb4, 6/8, MLV4, 5/14, Mw(mB)4, 6/3; IDC 25 22:26:42.8, 1.0, 4.75S, 103.07E, h62km, 7km, mb4, 2/23, mbmp4, 5/24, MS3, 2/4, Error ellipse: s-maj=23.0km s-min=9.7km az=45.0

NEIC 25 22:26:43.7, 1.5, 4.177S, 0.07, 103.08E, 0.08, h69km, 5km, mb4, 6/42, Error ellipse: s-maj=13.3km s-min=7.7km az=49.0

ISC 25 22:26:42.1, 0.7, 4.93S, 0.06, 103.02E, 0.05, h62km, 4km, n116, s19101/125, mb4, 6/49, 1D, Southern Sumatara

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

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Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: ARSB, Arslanbob, 53.59 332, P, Iamb, 22 35 57.1 -0.1

Table with columns: ARSB, Sado, 53.83 34, P, Iamb, 22 35 57.9 -0.9

Table with columns: ARSB, Ala-Archa, 53.96 334, P, Iamb, 22 35 58.7 -1.1

Table with columns: ARSB, Makanchi Array, 54.67 343, P, P, 22 36 03.8 -1.0

Table with columns: ARSB, BinXian, 54.93 321, P, P, 22 36 06.3 -0.3

Table with columns: ARSB, Ussuriysk Arra, 55.41 25, P, P, 22 36 09.5 -0.6

Table with columns: ARSB, Karatay Array, 56.13 332, P, P, 22 36 15.1 -0.2

Table with columns: ARSB, Kurchatov Arra, 59.22 342, P, P, 22 36 36.1 -0.7

Table with columns: ARSB, Zalesovo Array, 60.62 348, P, P, 22 36 45.3 -1.0

Table with columns: ARSB, Borovoye Array, 63.97 339, P, P, 22 37 07.8 -1.0

Table with columns: ARSB, Akbulak array, 65.65 331, P, P, 22 37 19.0 -0.8

Table with columns: ARSB, Mathiatis, 76.39 308, P, Iamb, 22 38 25.4 +0.2

Table with columns: ARSB, Keskin Array B, 77.51 312, P, Iamb, 22 38 31.0 -0.5

Table with columns: ARSB, Keskin Array B, 77.51 312, P, Iamb, 22 38 31.4 -0.1

Table with columns: ARSB, Karpats, 81.63 307, P, P, 22 38 54.0 +1.2

Table with columns: ARSB, Burar Bucovina Array, 85.44 318, P, Iamb, 22 39 14.6 +1.4

Table with columns: ARSB, Kolonicke secl, 87.62 319, eP, P, 22 39 24.6 +0.9

Table with columns: ARSB, Stebnicka Huta, 88.37 320, eP, P, 22 39 26.8 -0.5

Table with columns: ARSB, Vranov, 91.37 319, LR, 22 37 45.5

Table with columns: ARSB, HERS Array B, 93.22 319, P, P, 22 39 50.6 +0.6

Table with columns: TWGZ, Tauwharepara, 4.56 211, P, Pn, 22 30 34.3 -0.6

Table with columns: TWGZ, Te Karaka, 4.84 211, P, Pn, 22 30 38.8 +0.1

Table with columns: TWGZ, Matawai, 4.89 214, P, Pn, 22 30 39.3 +0.2

Table with columns: TWGZ, Urewera, 5.03 217, P, Pn, 22 30 40.0 -1.4

Table with columns: TWGZ, Urewera, 5.03 217, P, Pn, 22 30 39.5 -1.9

Table with columns: TWGZ, Rawiri, 5.07 214, P, Pn, 22 30 41.5 -0.5

Table with columns: TWGZ, Shannott Statio, 5.34 212, P, Pn, 22 30 45.0 -0.7

Table with columns: TWGZ, Ruatahunu, 5.37 216, P, Pn, 22 30 46.1 -0.1

Table with columns: TWGZ, Maungataniwha, 5.63 215, P, Pn, 22 30 48.6 -1.0

Table with columns: TWGZ, Otutere, 6.46 220, P, Pn, 22 30 58.7 -2.4

Table with columns: TWGZ, Chatham Island, 9.59 170, P, Pn, 22 32 15.2 -1.1

Table with columns: TWGZ, Warramunga Arr, 43.55 277, P, P, 22 37 29.6 +0.5

Table with columns: TWGZ, South Pole Qui, 55.81 180, P, P, 22 39 02.2 +0.3

Table with columns: TWGZ, FINESS Array B, 148.37 337, PKPbc, PKPbc, 22 49 09.6 -0.9

Table with columns: TWGZ, Warramunga Arr, 18.02 194, P, P, 22 33 56.8 -0.6

Table with columns: TWGZ, Alice Springs, 21.71 193, P, P, 22 34 38.6 +0.5

Table with columns: TWGZ, Eielson Array, 85.45 24, P, P, 22 42 25.2 +0.6

Table with columns: TWGZ, South Pole Qui, 87.56 180, P, P, 22 42 34.4 -0.7

Table with columns: TWGZ, Green Lake, 1.70 347, P, Pn, 22 36 10.0 -1.8

Table with columns: TWGZ, Alice Springs, 21.71 193, P, P, 22 34 38.6 +0.5

DJA 25 22:29:22.7, 2.0, 34°25'S, 178°82'W, h0km, mb3, 6/3, mbmp3, 6/4, ML3, 8/1, Error ellipse: s-maj=48.4km s-min=39.2km az=70.0

WEL 25 22:29:27.8, 1.1, 34°51'S, 12°17'W, h1, 4, h33km, M3, 9/7, mB4, 5/4, ML4, 2/12, MLV4, 0/7, Mw(mB)3, 6/4, Error ellipse: s-maj=22.4km s-min=7.6km az=130.2, confirmed

ISC 25 22:29:28.4, 1.4, 34.3S, 0.1, 179.0W, 0.1, h35km, n21, s1912/36, mb3, 6/3, South of Kermadec Islands

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

IDC 25 22:29:45.2, 1.4, 2.39S, 138.94E, h0km, mb3, 8/4, mbmp3, 8/5, ML3, 8/1, Error ellipse: s-maj=27.7km s-min=26.7km az=93.0, Irian Jaya

IDC 25 22:35:40.0, 0.6, 30°79'S, 177°31'W, h0km, mb4, 4/12, mbmp4, 4/13, ML3, 8/1, MS3, 9/16, Error ellipse: s-maj=24.0km s-min=16.4km az=81.0

NEIC 25 22:35:42.0, 1.4, 30.88S, 0.06, 177.4W, 0.1, h10km, 1km, mb4, 8/16, Error ellipse: s-maj=17.7km s-min=9.5km az=91.0

ISC 25 22:35:44.0, 0.5, 30.92S, 0.05, 177.48W, 0.09, h27km, n111, s1811/114, mb4, 6/26, MS3, 9/12, C-5D, Kermadec Islands

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

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Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC

Table with columns: Code, Station Name, Delta, Azimuth, Phase ID, Op, ISC, Time, Res, h, m, s, ISC





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s ISC. Includes stations like SMKR Semkarok, ZLN Zelenaya, BZGR Bezymyannyi-Gr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s ISC. Includes stations like NEIC 25 23:21.31.2.1.6, 2.7S.0.1, 138.59E.0.03, h10km, 1km, mb4.4/15, Error ellipse: s-maj=19.3km s-min=3.3km, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h m s ISC. Includes stations like KNRA Kununurra, FITZ Fitzroy Crossi, WBO Warramunga Arr, etc.

Bottom section containing various codes and station names, including: IDC 25 23:21.28.6.0.7, 2.67S.138.57E, h0km, mb4.0/9, mbmp4.0/12, ML4.0/3, MS3.7/13, Error ellipse: s-maj=17.9km s-min=14.8km, etc.



Table with columns: Station Name, Frequency, Power, Mode, and various status indicators. Includes stations like Summer Lake, Quillayute Air, and many others.

Table with columns: Station Name, Frequency, Power, Mode, and various status indicators. Includes stations like Eielson Array, Wood River Hill, Pine Creek, and many others.

Table with columns: Station Name, Frequency, Power, Mode, and various status indicators. Includes stations like Kashi, Zaleski Beam, Kurchatov Arra, and many others.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BLKN Baker Lake, ANMO Albuquerque, AKTO Aktyubinsk, etc.

NNC 26 01:19:52.4.2.3, 36.83N, 70.84E, h147km, 39km, mb2.7, mpv3.6, Error ellipse: s-maj=21.3km s-min=15.5km

IDC 26 01:19:52.4.8.4, 36.84N, 70.89E, h203km, 56km, mb3.3/4, mbmp3.7/10, MS3.0/1, Error ellipse: s-maj=82.5km s-min=42.8km az=170.0

ISC 26 01:19:52.2.2.1, 36.82N, 70.90E, 0.1, h200km, n17, 056919, mb3.7/4, 4C-2D, Hindu Kush region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KK31 Karatay Array, AAK Ala-Archa, MK31 Machanchi Array, etc.

MEX 26 01:19:57.9.0.5, 31.58N, 114.48W, h16km, 15km, MD3.8 ECX 26 01:19:58.3.0.3, 31.60N, 114.50W, h9km, 5km, ML2.9

ISC 26 01:19:55.6.2.4, 31.69N, 114.50W, 0.06, h11km, 18km, n11, 0654/21, 1C-2D, Gulf of California

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ECBX El Chinoero, RITX Riito Sonora, SFX San Felipe, etc.

JMA 26 01:21:02.4.0.1, 24.12N, 122.6E, 0.5, h70km, 2km, MV2.0/11, NW OFF ISHIGAKIJIMA IS

TAP 26 01:21:02.1, 24.36N, 122.65E, h74km, ML2.7, C ISC 26 01:21:02.2.1.3, 24.30N, 122.65E, 0.03, h76km, 7km, n52, 0579/101, Taiwan region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like E0S3 E0S3, YJNG Yonagunijimaku, E0S4 E0S4, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like HANA Nanau, ENA ENA, NACB Ninganchiao, etc.

NOU 26 01:22:48.5, 24.80S, 179.88E, h529km, mb4.2/10, South of Fiji Islands

ISC 26 01:22:47.1.4, 24.95S, 179.79E, 0.4, h500km, n36, 0192/33, South of Fiji Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LKBA Tubou, MSVF Nonsavu, TAVE Taveuni, etc.

GCG 26 01:22:49.7.0, 14.27N, 91.49W, h62km, 7km, MD3.6, ML3.3, MW2.9, Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like STGO El Palmar, Qui, STGO El Palmar, Qui, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MW5.0/79, Moment Tensor Solution, s43c55, s79.c114, etc.

IDC 26 01:38:45.2.1.7, 2.34S, 138.58E, h0km, mb3.3/2, mbmp3.4/4, ML3.5/2, MS2.4/1, Error ellipse: s-maj=3.0km s-min=17.8km az=179.0

DJA 26 01:38:47.0.7.2, 2.51S, 10.13E, h20km, 6km, M3.5/6, ML3.5/6

ISC 26 01:38:49.5.1.1, 2.32S, 138.45E, 0.07, h35km, n9, 01459/9, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SMP1 Sarmi, GEN1 Geniem, SRPI Serui, etc.

IDC 26 01:38:53.5.0.9, 9.15S, 75.72W, h0km, mb4.0/7, mbmp4.0/10, ML3.9/3, MS3.2/4, Error ellipse: s-maj=32.5km s-min=17.5km az=47.0

NEIC 26 01:38:55.4.1.4, 9.24S, 0.08E, 0.09, h10km, 1km, mb4.6/36, Error ellipse: s-maj=16.4km s-min=11.4km az=119.0

VAO 26 01:38:57.1.2.3, 9.44S, 75.69W, h20km, 16km, mb4.5 ISC 26 01:38:54.8.0.5, 9.26S, 0.05E, 75.73W, 0.06, h10km, n17, 0147/115, ML4.5/22, Central Veru

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like NNA Nana, NNA Nana, NNA Nana, etc.

MCRA Macar, Loja, h62km, 0.8s 6.41 319 P Pn 01 40 28.1 -1.3

COHC Cochancay, 7.60 332 P Pn 01 40 46.5 +0.8

TBTG Tabatinga, AM, 7.67 49 Pn Pn 01 40 48.6 +2.0

TBTG Tabatinga, AM, 7.67 49 Pn Pn 01 40 49.1 +2.5

TBTG Tabatinga, AM, 7.67 49 Pn Pn 01 40 51.4 +4.8

PIAT Aña Tenorio, 8.58 343 P Pn 01 40 59.5 0.0

PLPL Puerto Lopez, 9.16 326 P Pn 01 41 07.1 0.0

PTLC Puerto Leguiza, 9.41 6 P Pn 01 41 06.4 -4.2

FLF1 Flavio Alfaro, 9.74 335 P Pn 01 41 14.7 -0.4

OTAV Otavalo, 9.81 344 P Pn 01 41 17.9 +1.5

OTAV Otavalo, 9.81 344 P Pn 01 41 19.8 +3.4

OTAV Otavalo, 9.81 344 P Pn 01 41 18.5 +2.1

PAC1 Pacho Paraso, 9.94 342 P Pn 01 41 22.5 +4.6

TULM Tulcen-Chalpat, 10.12 348 P Pn 01 41 20.4 -0.2

LPZA La Paz, 10.19 134 Pn Pn 01 41 23.3 +0.6

LPZA La Paz, 10.19 134 Pn Pn 01 41 23.8 +2.1

LPZA La Paz, 10.19 134 Pn Pn 01 41 44.8 0.6

LPZA La Paz, 10.19 134 Pn Pn 01 41 20.6 -1.1

LPZA La Paz, 10.19 134 Pn Pn 01 41 22.9 +1.2







26d 2h

Table with columns for station ID, name, coordinates, and various data points (e.g., 16.10 244, 16.10 62, etc.).

2019 JUN

Table with columns for station ID, name, coordinates, and various data points (e.g., 19.59 233, 19.66 53, etc.).

1630

Table with columns for station ID, name, coordinates, and various data points (e.g., 21.45 330, 21.51 234, etc.).

SKT	comp=Z,98um,18.0s	23.15	57	P	P	02 23 14.4 +0.1
G22K	Bettles	23.18	44	P	P	02 23 14.1 -0.3
E22K	Anaktuvuk Pass	23.22	41	Iamb	Iamb	02 23 14.7
E22K	Anaktuvuk Pass	23.22	41	P	P	02 23 14.4 -0.5
Q20K	Shuyak Island	23.27	66	P	P	02 23 14.9 -0.5
SYI	Shuyak Island	23.27	66	IAMS_20	IAMS_20	02 31 59.4
BPAW	Bear Paw Mtn.	23.28	52	Iamb	Iamb	02 23 29.3
BPAW	Bear Paw Mtn.	23.28	52	P	P	02 23 15.1 -0.3
KDAK	Kodiak Island	23.37	68	P	P	02 23 15.1 -1.3
KDAK	Kodiak Island	23.37	68	Iamb	Iamb	02 23 20.5
KDAK	Kodiak Island	23.37	68	IAMS_20	IAMS_20	02 32 00.1
KDAK	Kodiak Island	23.37	68	LR	LR	02 32 11.6
KDAK	Kodiak Island	23.37	68	P	P	02 23 15.1 -1.3
KDAK	Kodiak Island	23.37	68	Pmax	Pmax	
KDAK	Kodiak Island	23.37	68	MLR	MLR	
KDAK	Kodiak Island	23.37	68	P	P	02 23 14.6 -1.8
KDAK	Kodiak Island	23.37	68	P	P	02 23 14.3 -2.1
MLY	Manley	23.38	49	P	P	02 23 16.3 -0.2
HOM	Homer	23.43	63	IAMS_20	IAMS_20	02 31 54.5
HOM	Homer	23.43	63	P	P	02 23 15.8 -1.2
CAPN	Captain Cook N	23.48	60	IAMS_20	IAMS_20	02 32 27.9
CAPN	Captain Cook N	23.48	60	P	P	02 23 17.4 -0.1
USRK	Ussuriysk Ar.	23.56	253	P	P	02 23 14.8 -3.6
USRK	Ussuriysk Ar.	23.56	253	P	P	02 27 04.7 +1.5
USRK	Ussuriysk Ar.	23.56	253	ScP	ScP	02 30 42.1 +1.4
SUA	Susitna One	23.58	58	Iamb	Iamb	02 23 24.0
SUA	Susitna One	23.58	58	IAMS_20	IAMS_20	02 33 06.6
SUA	Susitna One	23.58	58	P	P	02 23 17.9 -0.8
TRF	Thorofore Moun	23.61	53	Iamb	Iamb	02 23 24.6
TRF	Thorofore Moun	23.61	53	P	P	02 23 19.0 0.0
CNPM	China Foot	23.66	63	P	P	02 23 17.7 -1.7
CUT	Chulitna	23.70	56	Iamb	Iamb	02 23 34.2
CUT	Chulitna	23.70	56	IAMS_20	IAMS_20	02 33 19.6
CUT	Chulitna	23.70	56	P	P	02 23 18.7 -0.9
COLD	Coldfoot	23.72	44	Iamb	Iamb	02 23 32.5
COLD	Coldfoot	23.72	44	P	P	02 23 19.5 -0.3
G23K	Bananza Creek	23.75	45	Iamb	Iamb	02 23 33.4
G23K	Bananza Creek	23.75	45	P	P	02 23 19.7 -0.4
D23K	Nanushuk River	23.77	39	Iamb	Iamb	02 23 32.8
D23K	Nanushuk River	23.77	39	P	P	02 23 19.8 -0.5
BRLK	Bradley Lake	23.79	63	Iamb	Iamb	02 32 31.4
BRLK	Bradley Lake	23.79	63	IAMS_20	IAMS_20	02 32 05.9
M22K	Willow	23.84	57	IAMS_20	IAMS_20	02 33 25.3
M22K	Willow	23.84	57	P	P	02 23 19.8 -1.2
BRSE	Bradley Lake S	23.87	63	P	P	02 23 19.8 -1.5
H23K	Yukon River	23.90	47	P	P	02 23 21.3 -0.2
B3W	Browne	23.94	51	P	P	02 23 22.7 +0.7
C23K	Iktilik River	23.96	37	P	P	02 23 22.0 -0.1
I23K	Minto, Yukon-K	23.97	49	Iamb	Iamb	02 23 38.3
I23K	Minto, Yukon-K	23.97	49	P	P	02 23 22.0 -0.1
SLKM	Skilak Lake	23.98	61	IAMS_20	IAMS_20	02 32 53.0
E23K	Chandalar	24.03	42	Iamb	Iamb	02 23 28.6
E23K	Chandalar	24.03	42	P	P	02 23 22.6 -0.2
JMM	Marumori	24.03	230	P	P	02 23 24.6 +1.6
JMM	Marumori	24.03	230	P	P	02 23 22.5 -0.5
NEA2	Nenana	24.10	50	Iamb	Iamb	02 23 39.3
NEA2	Nenana	24.10	50	P	P	02 23 22.6 -0.8
RC01	Rabbit Creek A	24.12	59	P	P	02 23 22.5 -1.1
TOLK	Toolik Lake Re	24.12	40	P	P	02 23 23.5 -0.1
MCK	McKinley	24.20	52	Iamb	Iamb	02 23 36.3
MCK	McKinley	24.20	52	P	P	02 23 23.4 -0.9
O22K	Cooper Landing	24.23	60	Iamb	Iamb	02 23 41.6
O22K	Cooper Landing	24.23	60	IAMS_20	IAMS_20	02 33 01.6
O22K	Cooper Landing	24.23	60	P	P	02 23 22.9 -1.7
RND	Reindeer	24.26	53	Iamb	Iamb	02 23 41.5
PMR	Palmer	24.33	58	P	P	02 23 27.1 +1.6
PMR	Palmer	24.33	58	P	P	02 23 24.0 -1.5
VLA	Vladivostok	24.35	251	eP	eP	02 23 22.9 -2.9
VLA	Vladivostok	24.35	251	Pmax	Pmax	
VLA	Vladivostok	24.35	251	MLR	MLR	
GHO	Glory Hole Cre	24.40	57	Iamb	Iamb	02 23 39.8
GHO	Glory Hole Cre	24.40	57	IAMS_20	IAMS_20	02 33 44.1
SEW	Seward	24.43	61	Iamb	Iamb	02 23 41.7
SEW	Seward	24.43	61	P	P	02 23 25.3 -1.2
WAT1	Susitna Watana	24.45	55	P	P	02 23 25.5 -1.2
E24K	Yukon Creek	24.45	42	P	P	02 23 26.9 +0.2
D24K	Happy Valley	24.46	39	Iamb	Iamb	02 23 42.6
D24K	Happy Valley	24.46	39	P	P	02 23 26.7 0.0
WRH	Wood River Hil	24.53	51	Iamb	Iamb	02 23 47.5
MDJ	Mudanjiang	24.58	257	P	P	02 23 24.0 -4.0
MDJ	Mudanjiang	24.58	257	P	P	02 27 06.3 +0.9
MDJ	Mudanjiang	24.58	257	P	P	02 23 24.3 -3.7
MDJ	Mudanjiang	24.58	257	S	S	02 27 51.0 +2.6
MDJ	Mudanjiang	24.58	257	Pmax	Pmax	
MDJ	Mudanjiang	24.58	257	Pmax	Pmax	
MDJ	Mudanjiang	24.58	257	LR	LR	
MDJ	Mudanjiang	24.58	257	LR	LR	
MDJ	Mudanjiang	24.58	257	P	P	02 23 26.4 -1.6
H24K	Noodor Dome	24.58	47	Iamb	Iamb	02 23 46.0

H24K	Noodor Dome	24.58	47	P	P	02 23 27.6 -0.3
C24K	Franklin Bluff	24.59	38	Iamb	Iamb	02 23 39.8
C24K	Franklin Bluff	24.59	38	P	P	02 23 27.7 -0.1
COLA	College	24.61	50	P	P	02 23 27.8 -0.3
COLA	College	24.61	50	IAMS_20	IAMS_20	02 33 59.3
COLA	College	24.61	50	P	P	02 23 29.4 +1.4
COLA	College	24.61	50	P	P	02 23 27.4 -0.6
COLA	College	24.61	50	Pmax	Pmax	
COLA	College	24.61	50	MLR	MLR	
COLA	College	24.61	50	P	P	02 23 27.5 -0.6
COLA	College	24.61	50	P	P	02 23 27.5 -0.5
COLA	College	24.61	50	S	S	02 27 44.8 -3.7
COLA	College	24.61	50	S	S	02 23 27.3 -0.7
COLA	College	24.61	50	S	S	02 23 27.9 -0.5
CCB	Clear Creek Bu	24.64	50	P	P	02 23 26.8 -1.5
CCB	Clear Creek Bu	24.64	50	Iamb	Iamb	02 23 43.2
CCB	Clear Creek Bu	24.64	50	IAMS_20	IAMS_20	02 33 58.5
KNK	Knik Glacier	24.68	58	Iamb	Iamb	02 23 57.8
KNK	Knik Glacier	24.68	58	P	P	02 23 27.6 -1.1
G24K	Hadweenic Riv	24.76	45	Iamb	Iamb	02 23 44.9
G24K	Hadweenic Riv	24.76	45	P	P	02 23 29.2 -0.2
POKR	Poker Plat Res	24.78	49	P	P	02 23 29.0 -0.6
PWL	Port Wells	24.83	59	Iamb	Iamb	02 24 00.7
PWL	Port Wells	24.83	59	IAMS_20	IAMS_20	02 32 54.5
PWL	Port Wells	24.83	59	P	P	02 23 28.5 -1.7
WAT6	Susitna Watana	24.85	54	P	P	02 23 28.8 -1.7
DHY	Denali Highway	24.95	54	Iamb	Iamb	02 23 48.1
DHY	Denali Highway	24.95	54	P	P	02 23 30.3 -1.1
M23K	Glacier View	24.96	57	P	P	02 23 30.4 -0.9
JSD	Sado	25.01	235	Iamb	Iamb	02 23 35.4
JSD	Sado	25.01	235	P	P	02 23 33.2 +1.3
JSD	Sado	25.01	235	P	P	02 23 30.9 -1.1
HDA	Harding Lake	25.02	51	Iamb	Iamb	02 23 29.8 -2.0
HDA	Harding Lake	25.02	51	P	P	02 23 54.3
HDA	Harding Lake	25.02	51	P	P	02 23 30.3 -1.5
IL31	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson Array	25.03	50	P	P	02 23 30.0 -1.9
ILAR	Eielson Array	25.03	50	P	P	02 23 30.5 -1.4
ILAR	Eielson Array	25.03	50	LR	LR	02 33 55.0
ILAR	Eielson					











Table with columns: Station, Frequency, Class, Mode, Power, and other technical details. Includes stations like NBO00, G40A, DLV, FOO, ANMO, etc.

Table with columns: Station, Frequency, Class, Mode, Power, and other technical details. Includes stations like ODD1, I42A, JMU, etc.

Table with columns: Station, Frequency, Class, Mode, Power, and other technical details. Includes stations like FAKI, FAKI, FAKI, etc.

LDAQ	Lac Daran	66.44	37	Iamb	Iamb	02 29 00.5			
LDAQ	comp=Z,292nm,1.1s			IAMS_20	IAMS_20	02 58 30.2			
WTF5	comp=Z,21µm,21.0s	66.53	64	Iamb	Iamb	02 29 09.7			
ALPN	Witch Falls	66.55	70	Iamb	Iamb	02 29 10.7			
K50A	Alpine	66.55	48	Iamb	Iamb	02 29 02.4			
LUES	Casco	66.57	178	P	P	02 29 00.7 +2.6			
KPL	Lulesalemia Tem	66.58	354	eP	P	02 28 59.3 +1.6			
SLM	Plockton			IAMS_20	IAMS_20	02 52 35.5			
CCM	comp=Z,18µm,25.5s	66.61	55	Iamb	Iamb	02 29 01.1			
CCM	Saint Louis	66.61	56	P	P	02 28 56.7 -1.6			
CCM	Cathedral Cave	66.61	56	P	Iamb	02 29 01.7			
CCM	comp=Z,288nm,1.1s	66.61	56	P	P	02 28 56.7 -1.6			
CCM	Cathedral Cave			pmax	pmax				
CCM	comp=Z,282nm,1.1s			MLR	MLR				
CCM	comp=Z,34µm,18.0s	66.61	56	IP	P	02 28 57.5 -0.8			
BNDI	Cathedral Cave	66.64	218	P	P	02 29 00.7 +2.1			
SGCY	Bandanaira	66.64	67	Iamb	Iamb	02 29 10.8			
HHAR	Sterling City	66.76	59	Iamb	Iamb	02 29 10.5			
TRQ	Hobbs	66.78	40	IAMS_20	IAMS_20	03 00 34.5			
DRUM	comp=Z,28µm,21.0s	66.79	352	eP	P	02 29 00.5 +1.4			
DRUM	Mont Tremblant			IAMS_20	IAMS_20	02 53 20.3			
PMG	Mains of Drum	66.81	198	P	P	02 28 59.0 -0.7			
PMG	Port Moresby	66.81	198	P	P	02 29 00.1 +0.4			
PMG	Port Moresby	66.81	198	P	P	02 28 59.9 +0.2			
PMG	Port Moresby	66.81	198	IP	P	02 28 59.1 -0.5			
N47A	Urbana	66.81	51	Iamb	Iamb	02 29 01.6			
SSRD	comp=Z,138nm,0.9s	66.82	345	iP	P	02 29 00.0 +0.7			
JHNI	Sdr. Stenderup	66.84	281	eP	Iamb	02 28 59.1 -0.9			
ABTX	Jhansi	66.84	66	Iamb	Iamb	02 29 12.0			
MGMO	Ablene Hawle			IAMS_20	IAMS_20	02 57 47.4			
MGMO	Mountain Grove	66.85	58	Iamb	Iamb	02 29 02.3			
JHSG	comp=Z,216nm,0.8s	66.85	58	IAMS_20	IAMS_20	02 58 34.3			
LMQ	JHARSUGUGA	66.88	275	eP	P	02 28 59.6 -0.6			
RGV	La Malbaie	67.11	37	IAMS_20	IAMS_20	03 01 03.9			
RGV	comp=Z,27µm,19.0s	67.12	342	IAMS_20	IAMS_20	03 00 29.7			
RGV	Rugen	67.12	342	IP	P	02 29 02.2 +1.0			
RGV	comp=Z,36µm,22.0s	67.12	342	IP	P	02 29 01.8 +0.5			
RGV	Rugen			S	S	02 37 57.3 +2.7			
AKASG	comp=Z,724nm,1.3s,baz=16,slow=6.1	67.16	331	P	P	02 29 00.5 -1.0			
AKASG	Malin Array Be			Iamb	Iamb	02 29 05.0			
AKASG	comp=Z,278nm,1.0s	67.16	331	P	P	02 29 00.9 -0.7			
AKASG	Malin Array Be			Iamb	Iamb	02 29 05.0			
AKASG	comp=Z,108nm,0.7s,baz=29,slow=6.1,SNR=213	67.12	342	eP	P	02 57 25.0 -1.0			
AKASG	comp=Z,2.8nm,0.9s,baz=212,slow=2.9,SNR=8.8			LR	LR	03 02 32.8			
AKASG	comp=Z,76µm,18.4s,baz=20,slow=4.0								
AKB	comp=Z,108nm,0.7s	67.16	331	Iamb	Iamb	02 29 04.9			
AKB	Malin Array Si			Iamb	Iamb	02 29 04.9			
AKB	Malin Array Si	67.16	331	iP	P	02 29 01.0 -0.5			
KIEV	Kiev	67.17	331	Iamb	Iamb	02 29 00.9 -0.7			
KIEV	Kiev	67.17	331	Iamb	Iamb	02 29 04.9			
KIEV	Kiev	67.17	331	IP	P	02 29 01.2 -0.4			
KIEV	Kiev	67.17	331	IP	P	02 29 01.1 -0.5			
KIEV	Kiev	67.17	331	iP	P	02 29 00.9 -0.7			
FW03	Perrin-Whitt E	67.31	64	Iamb	Iamb	02 29 06.0			
FW03	comp=Z,228nm,0.8s			IAMS_20	IAMS_20	02 59 27.7			
TX31	comp=Z,32µm,20.0s	67.36	71	Iamb	Iamb	02 29 16.2			
TXAR	Lajitas Si	67.36	71	P	P	02 29 03.5 +0.2			
TXAR	Lajitas Array	67.36	71	P	P	02 29 03.6 +0.3			
TXAR	comp=Z,78nm,0.6s,baz=305,slow=3.8,SNR=467	67.36	71	P	P	02 57 29.1 -2.7			
TXAR	comp=Z,10nm,0.9s,baz=146,slow=4.3,SNR=12			P4KPbc		03 05 50.6			
PLPT	Palo Pinto	67.36	65	Iamb	Iamb	02 29 06.4			
N49A	comp=Z,192nm,0.9s	67.43	50	Iamb	Iamb	02 29 06.7			
OZNA	Columbus Grove	67.43	68	Iamb	Iamb	02 29 15.8			
Z35A	Ozona	67.43	68	Iamb	Iamb	02 29 16.0			
Z35A	Perchaven, San	67.49	64	Iamb	Iamb	03 00 44.4			
BLSP	comp=Z,29µm,18.0s	67.50	276	eP	P	02 29 03.9 -0.3			
OLIL	Bilaspur	67.50	54	Iamb	Iamb	02 29 07.2			
T42A	Olney	67.51	57	Iamb	Iamb	02 29 06.6			
T42A	Van Buren	67.51	57	Iamb	Iamb	02 58 59.5			
M50A	comp=Z,124nm,0.8s	67.51	49	Iamb	Iamb	02 29 07.0			
NGOA	Fremont	67.52	184	P	P	02 29 06.8 +2.6			
O48B	Tingoa Renbel	67.56	51	Iamb	Iamb	02 29 06.4			
O48B	Farmland			IAMS_20	IAMS_20	02 58 21.5			
WBO	comp=Z,174nm,0.9s	67.56	41	IAMS_20	IAMS_20	03 01 41.0			
GKP	Williamsburg	67.56	41	IAMS_20	IAMS_20	03 01 41.0			
GKP	Gorka Klasztor	67.61	339	eP	P	02 29 04.4 +0.1			
GKP	comp=Z,26µm,18.0s			S	S	02 38 00.7 +0.1			
GKP	comp=Z,54µm,22.1s			L	L	03 00 07.5			
GKP	comp=Z,54µm,22.1s	67.61	339	eP	P	02 29 04.5 +0.1			
FW06	Fremont	67.62	64	Iamb	Iamb	02 29 07.9			
LAW	comp=Z,147nm,1.0s	67.62	64	IAMS_20	IAMS_20	02 59 46.9			
LAW	Loch Awe, Argy	67.64	354	eP	P	02 29 06.4 +1.9			
BKNR	comp=Z,17µm,26.0s	67.67	287	eP	P	02 29 03.4 -1.8			
SAND	BIKANER	67.68	69	Iamb	Iamb	02 29 17.7			
GOF	Sanderson	67.68	69	Iamb	Iamb	02 29 17.7			
GOF	comp=Z,232nm,1.2s	67.68	319	iP	P	02 29 05.4 +0.4			
FW07	Gofitskye	67.72	64	Iamb	Iamb	02 29 09.3			
MNTQ	Weatherford	67.72	40	Iamb	Iamb	02 29 08.0			
MNTQ	Montreal, Queb	67.73	40	Iamb	Iamb	02 29 08.0			
MNTQ	comp=Z,202nm,1.0s			IAMS_20	IAMS_20	03 01 04.6			
MAK	comp=Z,22µm,19.0s	67.76	315	iP	P	02 29 03.8 -1.6			
MAK	Makhachkala			P	P	02 31 35.0			
MAK	MAK			ePPP	PPP	02 32 12.4			
MAK	MAK			eS	S	02 38 01.5 -1.1			
MAK	MAK			eSS	SS	02 42 17.4 -5.4			
MAK	comp=Z,4µm,2.4s			pmax	pmax				
MAK	comp=Z,707nm,1.5s			smax	smax				
MAK	comp=E,14µm,7.7s			smax	smax				
MAK	comp=N,21µm,11.2s			MLR	MLR				
MAK	comp=Z,48µm,13.0s			MLR	MLR				
MAK	comp=E,97µm,13.0s			MLR	MLR				
MAK	comp=N,120µm,14.0s			MLR	MLR				

R9F13	Warsaw-Wawer	67.77	336	eP	P	02 29 06.1 +0.7			
R9F13	comp=N,8.8nm,0.7s								
ESY	Stoney Edge	67.78	352	eP	S	02 38 04.0 +1.5			
PECO	Prince Edward	67.82	43	Iamb	Iamb	02 29 06.2 +0.8			
EDI	Edinburgh	67.82	352	eP	P	02 29 08.4			
ED1	Edinburgh	67.82	352	eP	P	02 29 07.4 +1.7			
S44A	comp=Z,16µm,23.0s	67.82	55	P	P	02 29 04.6 -1.3			
S44A	Carbondale			Iamb	Iamb	02 29 08.8			
SIUC	comp=Z,208nm,0.9s	67.82	55	Iamb	Iamb	02 29 08.8			
MEDO	Southern Ilin	67.90	45	IAMS_20	IAMS_20	03 00 01.3			
LPIG	Altipoint, All	67.91	80	LR	LR	02 56 45.1			
D62A	comp=Z,7µm,18.5s,baz=320,slow=34	67.94	36	Iamb	Iamb	02 29 09.7			
FCAR	Medlin	67.94	58	Iamb	Iamb	02 29 09.8			
FCAR	Ozark Folk Cen	67.94	58	Iamb	Iamb	02 29 09.8			
FCAR	comp=Z,246nm,1.0s			IAMS_20	IAMS_20	02 58 27.1			
CGM3	comp=Z,26µm,20.0s	67.96	56	Iamb	Iamb	02 29 18.1			
O49A	Cape Girardeau	67.96	56	Iamb	Iamb	02 29 18.1			
O49A	Covington	67.97	50	Iamb	Iamb	02 29 10.1			
O49A	comp=Z,242nm,1.1s			IAMS_20	IAMS_20	03 01 49.3			
PBMO	comp=Z,25µm,18.0s	68.02	57	Iamb	Iamb	02 29 18.9			
PBMO	Poplar Bluff			Iamb	Iamb	02 29 18.9			
PGBU	comp=Z,314nm,1.1s	68.03	353	eP	P	02 29 08.0 +1.1			
PGBU	Glenflierbraes			IAMS_20	IAMS_20	02 53 18.1			
ERBR	comp=Z,35µm,26.2s	68.04	321	eP	P	02 29 06.7 -0.5			
ERBR	Yeremizino-Bor			pmax	pmax	02 38 05.3 -0.7			
ERBR	ERBR			MLR	MLR				
J55A	comp=Z,37µm,15.0s	68.07	44	Iamb	Iamb	02 29 10.2			
J55A	Hilton			IAMS_20	IAMS_20	03 02 41.6			
P48A	comp=Z,365nm,1.3s	68.09	51	Iamb	Iamb	02 29 09.8			
MLR	Milroy	68.09	51	Iamb	Iamb	02 29 09.8			
LONY	comp=Z,184nm,0.9s	68.14	41	IAMS_20	IAMS_20	03 02 01.4			
LONY	Lake Ozonia			Iamb	Iamb	02 29 06.2 -1.7			
LONY	Lake Ozonia	68.14	41	IP	P	02 29 07.7 -0.6			
GUNA	GUNA	68.15	282	eP	P	02 29 08.0 -0.3			
AJM	Almer	68.16	285	eP	P	02 29 06.6 -1.5			
ERPA	Erie	68.17	46	P	P	02 29 11.2			
ERPA	comp=Z,194nm,0.9s			IAMS_20	IAMS_20	03 00 47.5			
ERPA	Erie	68.17	46	IP	P	02 29 07.3 -0.8			
FW13	Cleburne	68.18	64	Iamb	Iamb	02 29 20.1			
E62A	comp=Z,168nm,0.9s	68.19	37	IAMS_20	IAMS_20	03 01 47.4			
E62A	Clayton Lake			Iamb	Iamb	02 29 13.6			
HPIG	comp=Z,25µm,21.0s	68.19	74	eP	P	02 29 08.6 +0.5			
BSEG	Bad Segeberg	68.21	344	eP	S	02 38 03.3 +2.7			
BSEG	comp=Z,323nm,1.4s,baz=16,slow=6.1			eS	S	02 38 08.9 +0.8			
BEL	Belsk	68.21	336	eP	S	02 38 08.9 +1.2			
BEL	BEL			eS	L	02 57 25.0			
BRDY	comp=Z,46µm,27.2s	68.23	66	Iamb	Iamb	02 29 12.8			
BRDY	Brady			IAMS_20	IAMS_20	02 59 01.4			
LCAR	comp=Z,551nm,2.0s	68.26	58	IAMS_20	IAMS_20	03 00 22.9			
LCAR	Lake Charles			IAMS_20	IAMS_20	03 01 02.2			
ALVAR	comp=Z,19µm,19.0s	68.26	64	IAMS_20	IAMS_20	03 01 02.2			





26Z 2h

Table with columns for station code, name, frequency, and other technical details. Includes stations like YOZ, DAVOX, PVL, SABO, FUORNI, etc.

2019 JUN

Table with columns for station code, name, frequency, and other technical details. Includes stations like GELI, TREB, STON, KAVA, CEMC, etc.

1640

Table with columns for station code, name, frequency, and other technical details. Includes stations like UOSS, UOSS, UOSS, UOSS, UOSS, etc.



TURN	Turunc	80.14 325	eP	P	02 30 18.2 +0.2
ARQ	Araqi	80.17 297	P	P	02 30 18.2 -0.2
ARQ	SNR=178		P	P	02 30 18.2 -0.2
BODT	Bodrum	80.17 326	eP	P	02 30 17.8 -0.4
BODT	Bodrum	80.17 326	P	P	02 30 17.3 -0.9
JMDO	Jabal Madar	80.18 295	P	P	02 30 19.0 +0.5
JMDO	SNR=195		P	P	02 30 19.0 +0.5
BHL	Bhannes	80.19 319	eP	P	02 30 18.4 -0.1
AKAS	Kas	80.19 324	eP	P	02 30 17.9 -0.6
AMPJ	Ampelaki	80.20 331	P	P	02 30 17.8 -0.5
DION	Dionisos Attik	80.24 329	P	P	02 30 16.8 -1.8
KSL	Kastellorizon	80.28 324	P	P	02 30 17.9 -0.8
ANX	Ano Chora	80.32 331	P	P	02 30 18.4 -0.8
BSY	Bisyra	80.32 296	P	P	02 30 19.5 +0.2
BSY	SNR=242		P	P	02 30 19.5 +0.2
VILL	Villia	80.33 330	P	P	02 30 17.8 -1.3
PALK	Pallekele	80.34 269	P	P	02 30 18.7 -0.8
PALK	comp=Z,352nm,1.1s		Iamb	Iamb	02 30 22.3
PALK	Pallekele	80.34 269	IAMS_20	IAMS_20	03 08 01.7
PALK	Pallekele	80.34 269	P	P	02 30 20.2 +0.8
PALK	Pallekele	80.34 269	P	P	02 30 20.2 +0.8
PALK	Pallekele	80.34 269	P	P	02 30 19.0 -0.5
PALK	Pallekele	80.34 269	S	S	02 40 23.1 -1.8
ATHU	Athens Univers	80.39 329	P	P	02 30 18.4 -1.0
DQRL	Deir Qamar	80.39 319	eP	P	02 30 19.8 +0.2
ATH	Athens Observa	80.40 329	P	P	02 30 18.5 -0.9
PVO	Paravola	80.41 331	P	P	02 30 19.0 -0.5
GD15	Gladstone Soft	80.42 192	P	P	02 30 21.5 +2.1
TSLK	Tsoukalades, L	80.44 332	P	P	02 30 19.5 -0.2
KALE	Kalitheia	80.45 331	P	P	02 30 18.5 -1.3
SERG	Sergoula	80.45 331	P	P	02 30 18.7 -1.1
LKD2	Lefkada island	80.48 332	P	P	02 30 19.0 -1.0
LKD2	Lefkada island	80.48 332	P	P	02 30 18.8 -0.3
EPF	Epialto	80.48 331	P	P	02 30 19.7 -0.2
RCY	Rachaya	80.48 318	eP	P	02 30 20.2 0.0
QRWL	Qararoun	80.50 318	eP	P	02 30 20.2 0.0
EJON	La Jonquera	80.51 346	P	P	02 30 21.0 +1.1
NYDR	Nydri-Lefkada	80.54 332	P	P	02 30 19.0 -0.3
LTK	Loutiraki	80.56 330	P	P	02 30 18.4 -2.0
CEST	Estერი de Car	80.57 347	Iamb	Iamb	02 30 28.0
CEST	comp=Z,281nm,1.1s		IAMS_20	IAMS_20	03 10 58.4
JRN	Jornain Island	80.61 301	P	P	02 30 20.5 -0.2
JRN	SNR=41		P	P	02 30 20.5 -0.2
EVGI	Lefkada island	80.63 332	P	P	02 30 20.2 -0.5
NISR	Nisiros	80.64 326	P	P	02 30 19.6 -1.1
SHBL	Chebaa	80.65 318	eP	P	02 30 21.0 -0.1
ARG	Arhangelos	80.69 325	eP	Iamb	02 30 20.7 -0.3
ARG	Arhangelos	80.69 325	Iamb	Iamb	02 30 24.6
ARG	Arhangelos	80.69 325	P	P	02 30 20.4 -0.6
APE	Apeiranthos	80.70 328	eP	P	02 30 18.9 -2.2
APE	Apeiranthos	80.70 328	P	P	02 30 19.0 -2.2
APE	Apeiranthos	80.70 328	eP	P	02 30 19.5 -1.6
APE	comp=Z,44nm,0.9s		mlr	mlr	
SHMA	Al-Shehemia	80.73 303	P	P	02 30 22.0 +0.6
FITZ	Fitzroy Crossi	80.74 217	LR	LR	03 12 42.5
FITZ	Fitzroy Crossi	80.74 217	P	P	02 30 22.9 +1.6
KLV	Katavryia, Ach	80.77 330	P	P	02 30 20.7 -1.0
FSK	Fiskardhi	80.81 332	P	P	02 30 20.7 -0.9
060A	Indiantown	80.82 55	Iamb	Iamb	02 30 26.2
GUR	Goura	80.82 330	P	P	02 30 20.5 -1.3
SAKB	Bahrain	80.83 303	P	P	02 30 22.1 +0.9
AKS	Araoxos	80.84 331	P	P	02 30 21.1 +0.2
RLS	Riolos of Patr	80.95 331	P	P	02 30 22.4 +0.2
DRO	Drossia	80.98 331	P	P	02 30 22.6 +0.1
DMLN	Damoulianiata-K	81.07 332	P	P	02 30 23.3 +0.2
MMAI	Mount Meron Ar	81.07 318	P	P	02 30 23.6 +0.4
MMAI	comp=Z,117nm,0.9s,baz=39,slow=6.7,SNR=97		LR	LR	03 11 25.2
TIP	Timpagrande	81.09 335	Iamb	Iamb	02 30 25.8
TIP	comp=Z,420nm,1.5s		IAMS_20	IAMS_20	03 10 04.4
TIP	Timpagrande	81.09 335	IIP	IIP	02 30 23.8 +0.7
MZWR	Madinat Zayed	81.11 300	P	P	02 30 23.0 +0.1
ASF	Jabal al Asfar	81.26 317	LR	LR	03 12 26.1
UMZA	Um Al Zommool	81.36 298	P	P	02 30 25.4 +0.6
UMZA	comp=Z,30um,18.6s,baz=58,slow=40		P	P	02 30 25.4 +0.6
MHTO	MHTO	81.40 295	P	P	02 30 25.2 +0.2
MHTO	SNR=244		P	P	02 30 25.2 +0.2
TRD	Trivandrum	81.42 272	eP	P	02 30 24.8 -0.4
GHWR	Ruwais	81.43 300	P	P	02 30 25.2 +0.1
PMOR	Pomarioiree	81.44 133	eP	P	02 30 25.6 +0.6
PMOR	Pomarioiree	81.44 133	eS	S	02 40 33.6 -2.3
PMOR	comp=Z,6um,25.3s		eS	SS	02 45 53.1 +0.4
PMOR	comp=Z,3um,24.9s		eLR	LR	02 55 46.5
TRNA	Turayna	81.57 302	P	P	02 30 26.0 +0.2
TRNA	SNR=57		P	P	02 30 26.0 +0.2
MMLI	Mount Malkishu	81.58 318	eP	P	02 30 26.6 +0.7
KARP	Karpathos	81.61 326	eP	P	02 30 24.5 -1.5
KARP	Karpathos	81.61 326	Iamb	Iamb	02 30 28.8
KARP	Karpathos	81.61 326	P	P	02 30 28.8
KARP	Karpathos	81.61 326	eP	P	02 30 24.2 -1.8
ITM	Ithomi	81.64 330	eP	P	02 30 25.5 -0.6
ITM	Ithomi	81.64 330	Iamb	Iamb	02 30 30.8
ITM	comp=Z,262nm,0.9s		IAMS_20	IAMS_20	03 12 00.4
SMRA	Abu-Samra	81.74 302	P	P	02 30 27.0 +0.2
SMRA	SNR=104		P	P	02 30 27.0 +0.2
VAH	Vaihoo	81.75 133	eP	P	02 30 28.2 +1.5
VAH	comp=Z,233nm,1.1s		eS	SS	02 40 42.0 +2.8
VAH	Vaihoo	81.75 133	eS	SS	02 45 49.2 -8.3
VAH	comp=Z,7um,28.0s		eSS	SS	02 55 55.5
VAH	Vaihoo	81.75 133	eLR	LR	02 55 55.5
VAH	comp=Z,23um,23.8s		eLR	LR	02 55 55.5
SLWR	Sila	81.91 301	P	P	02 30 28.1 +0.4
SLWR	SNR=104		P	P	02 30 28.1 +0.4
EIDS	Eidsvold	81.94 192	IAMS_20	IAMS_20	03 03 59.4
EIDS	comp=Z,15um,20.0s		P	P	02 30 29.7 +2.2
MZR	Muzera	81.94 299	P	P	02 30 27.6 -0.3
MZR	SNR=138		P	P	02 30 27.6 -0.3
MZR	Muzera	81.94 299	iP	P	02 30 27.1 -0.7
CMIG	Mattias Romero	81.96 71	P	P	02 30 28.7 +0.7
CMIG	comp=Z,98nm,1.0s,baz=331,slow=3.7,SNR=79		LR	LR	03 08 40.5
CMIG	comp=Z,6um,18.1s,baz=314,slow=37		LR	LR	03 08 40.5
ECAL	Calabor	81.98 353	P	P	02 30 28.5 +0.6
UJAP	Al Uja	82.00 318	eP	P	02 30 28.5 +0.5
XMI	Christmas Isls	82.01 238	P	P	02 30 29.8 +1.6
PGAV	Gaveira, Arca	82.06 354	IIP	IIP	02 30 28.9 +0.7
PGAV	comp=Z,270nm,1.4s		eS	S	02 40 44.0 +1.8
PGAV	comp=Z,39nm,1.0s		eSS	SS	02 46 05.5 +9.9
PGAV	comp=Z,192nm,0.9s		eLQ	LQ	02 52 36.5
PGAV	comp=Z,192nm,0.9s		eLR	LR	02 57 21.0
PGAV	comp=Z,8um,20.0s		IAMS_20	IAMS_20	03 11 57.1

PBRG	Braganca	82.12 353	IIP	P	02 30 28.9 +0.3
PBRG	comp=Z,184nm,1.5s		I Amb	P	02 30 33.4
KTHA	Kythira Island	82.19 329	eP	P	02 30 28.3 -0.7
PCAB	Cabril	82.30 354	IIP	P	02 30 30.0 +0.5
PCAB	comp=Z,198nm,1.2s		I Amb	I Amb	02 30 33.7
ZKR	Zakros	82.30 326	eP	P	02 30 28.9 -0.7
VSL	Villasalto	82.35 341	Iamb	Iamb	02 30 34.2
VSL	comp=Z,182nm,1.0s		IAMS_20	IAMS_20	03 10 29.6
DQM	DQM	82.50 295	P	P	02 30 31.0 +0.2
DQM	SNR=33		P	P	02 30 31.0 +0.2
IDI	Anoyia	82.55 327	eP	P	02 30 30.4 -0.5
IDI	Anoyia	82.55 327	P	P	02 30 29.1 -1.9
BBSR	BB Station	82.55 40	Iamb	Iamb	02 30 30.0 -0.9
BBSR	comp=Z,233nm,0.9s		Iamb	Iamb	02 30 34.8
BBSR	BB Station	82.55 40	IAMS_20	IAMS_20	03 09 48.9
POLO	Lamas de Oio	82.62 354	IIP	P	02 30 31.7 +0.5
POLO	comp=Z,114nm,1.1s		I Amb	P	02 30 35.5
IMMV	lera Moni Meta	82.66 328	eP	P	02 30 31.2 -0.2
PVRL	Vila Real	82.71 354	IIP	P	02 30 32.1 +0.4
PVRL	comp=Z,340nm,1.1s		I Amb	P	02 30 35.9
TEIG	Tejich	82.77 64	P	P	02 30 31.7 -0.5
MVO	Moncorvo	82.78 353	IIP	P	02 30 32.6 +0.5
MVO	comp=Z,322nm,1.1s		eS	SS	02 40 50.2 +0.6
MVO	MVO		eSS	SS	02 46 14.0 +3.6
MVO	MVO		eLQ	LQ	02 52 24.9
MVO	MVO		eLR	LR	02 57 52.5
MVO	MVO		IAMS_20	IAMS_20	03 14 37.3
MAHO	Mahon	82.82 345	P	P	02 30 33.0 +0.9
MAHO	Mahon	82.82 345	IAMS_20	IAMS_20	03 09 23.9
RAR	Rarotonga	82.88 146	IAMS_20	IAMS_20	03 00 55.1
RAR	Rarotonga	82.88 146	LR	LR	03 00 35.3
PTO	Porto	82.90 354	IIP	P	02 30 32.1 -0.4
PTO	comp=Z,10um,20.0s,baz=332,slow=31		I Amb	P	02 30 35.1
KNDR	Palaiochora Ch	82.96 328	eP	P	02 30 32.4 -0.5
PPT	Papeete	83.09 136	P	P	02 30 35.8 +2.2
PPT	comp=Z,159nm,0.8s,baz=290,slow=7.9,SNR=9.6		LR	LR	02 59 30.6
PPT2	Papeete2	83.11 136	eP	P	02 30 35.1 +1.3
PPT2	comp=Z,22um,21.5s,baz=317,slow=30		P	P	02 33 34.9 -1.0
PPT2	Papeete2	83.11 136	ePP	PP	02 40 48.9 -4.2
PPT2	comp=Z,772nm,26.5s		eS	S	02 46 20.7 +2.9
PPT2	comp=Z,5um,26.5s		eSS	SS	02 52 39.4
PPT2	comp=Z,7um,27.8s		eLQ	LQ	02 56 13.4
PPT2	comp=Z,25um,27.2s		eLR	LR	02 56 37.5
PPT2	comp=Z,54um,30.8s		eLR	LR	02 56 58.0
PPT2	comp=Z,56um,23.0s		eLR	LR	02 58 58.0
PPTF	Pamatui, Papee	83.11 136	IAMS_20	IAMS_20	02 58 58.0
PPTF	Pamatui, Papee	83.11 136	P	P	02 30 36.8 +2.9
ETOS	Malorca	83.15 346	P	P	02 30 35.3 +1.3
PAE	Paea	83.17 136	eP	P	02 30 34.0 0.0
PAE	comp=Z,110nm,1.2s		eS	S	02 40 54.3 +0.7
PAE	comp=Z,963nm,25.4s		eSS	SS	02 46 12.9 -5.7
PAE	comp=Z,1um,27.3s		eLR	LR	02 56 35.2
SOR	Soroa	83.20 59	Iamb	Iamb	02 30 38.9
SOR	comp=Z,10um,22.0s		IAMS_20	IAMS_20	03 10 18.2
SOR	Soroa	83.20 59	Iamb	Iamb	02 30 38.9
SOR	comp=Z,385nm,1.6s		IAMS_20	IAMS_20	03 10 18.2
GVD	Gavdhos	83.20 328	eP	P	02 30 33.3 -1.0
VAE	Valguarnera	83.25 336	LR	LR	03 13 00.6
VAE	comp=Z,33um,18.1s,baz=16,slow=40		P	P	02 30 35.0 +0.3
PVIS	Viseu	83.28 354	IIP	P	02 30 35.7 +2.8
RMQ	Roma	83.33 194	P	P	02 30 35.7 +0.8
UCM	Universidad Co	83.35 350	P	P	02 30 34.9 -0.5
TVO	Taravao	83.41 136	eP	P	02 30 34.9 -0.5
TVO	comp=Z,82nm,1.1s		eS	SKSac	02 40 59.0 +1.7
TVO	Taravao	83.41 136	eS	SKSac	02 46 17.0 -5.2
TVO	comp=Z,932nm,25.9s		eSS	SS	02 56 42.4
TVO	comp=Z,617nm,22.6s		eLR	LR	02 56 42.4
ASO1	Alice Springs	83.51 208	P	P	02 30 37.5 +1.7
ASAR	Alice Springs	83.52 208	P	P	02 30 36.7 +0.9
ASAR	Alice Springs	83.52 208	P	P	02 30 37.0 +1.1
ASAR	comp=Z,374nm,0.9s,baz=15,slow=4.8,SNR=428		P	P	02 48 52.1 -0.8
ASAR	comp=Z,2.2nm,0.9s,baz=189,slow=4.7,SNR=5.9		P	P	02 56 55.5 +1.5
ASAR	comp=Z,1.7nm,0.8s,baz=162,slow=0.4,SNR=8.8		P	P	02 30 36.7 +0.9
ASAR	Alice Springs	83.52 208	P	P	02 30 36.7 +0.9
MTE	Manteigas	83.57 354	Iamb	Iamb	02 30 41

26d 2h

Table with columns for station name, frequency, power, and other technical details. Includes stations like PGRON Lagoa das Cont, PGRON Lagoa das Cont, PGRON Lagoa das Cont, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like PMOZ Porto Moniz, PMOZ Porto Moniz, PMOZ Porto Moniz, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like PTLC Puerto Leguiza, LODK Lodwar, LODK Lodwar, etc.



Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like PEAOB, PETK, KMRM, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like AB31, EYMM, ECSD, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like KIRR, KMRM, KPTK, etc.



Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like GBOS, CPRO, CIRO, and BIAO.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like ARSA, LESA, SOKA, RETA, WATA, WTTA, MOTA, SOKA, OBTA, MYKA, DAVA, ABTA, and FETA.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like APC, ASAK, MIPR, PAU, MAJ, ASAJ, RDOG, ERM, C18K, M17K, C19K, J18K, H19K, D19K, and others.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like CABF, LASF, SMF, PGF, AVF, and BGF.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like B21K, E22K, US0A, COLA, PWL, IL31, D25K, F25K, SCRK, MJAO, MJB9, MAJO, MAJO, MJAR, H27K, L27K, I29M, L29M, M31M, WHY, MIMPY, SONM, SONM, HHC, HHC, YKA, NJ2, NJ2, SPITS, BLKN, HAWA, E09A, J05D, JTMT, KURB, BMO, BMO, MSO, MKAR, MKAR, PLID, PLID, BVMT, WVOR, WVOR, LYMT, MFID, BVAR, BEKR, BEKR, DLMT, DLMT, MCMT, GCMT, YFT, YFT, and NVAR.

Table with columns: Call sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like B21K, E22K, US0A, COLA, PWL, IL31, D25K, F25K, SCRK, MJAO, MJB9, MAJO, MAJO, MJAR, H27K, L27K, I29M, L29M, M31M, WHY, MIMPY, SONM, SONM, HHC, HHC, YKA, NJ2, NJ2, SPITS, BLKN, HAWA, E09A, J05D, JTMT, KURB, BMO, BMO, MSO, MKAR, MKAR, PLID, PLID, BVMT, WVOR, WVOR, LYMT, MFID, BVAR, BEKR, BEKR, DLMT, DLMT, MCMT, GCMT, YFT, YFT, and NVAR.

KRSC 26 02:39:10.1 to 1.6, 56.24N, 164.35E, h47km, 19km, M4.0

MOS 26 02:44:25.6 to 0.8, 56.20N, 164.23E, h11km, mb4.6/10, Error ellipse: s-maj=7.9km, s-min=4.5km, az=53.1

APC 26 02:44:25.7 to 0.6, 56.24N, 164.02E, h0km, mb4.0/23, mbtmp4.0/25, ML3.5/2, Error ellipse: s-maj=18.3km, s-min=12.4km, az=160.0

ISC 26 02:39:09.8 to 0.9, 56.26N, 164.23E, h0km, mb3.4/2, mbtmp3.3/3, ML2.0/1, Error ellipse: s-maj=21.6km, s-min=33.1km, az=142.0

KRSC 26 02:44:26.1 to 1.8, 56.19N, 164.31E, h52km, 22km, M4.4, NEIC 26 02:44:27.3 to 1.5, 56.3N, 163.89E, h0km, mb4.6/73, Error ellipse: s-maj=17.0km, s-min=7.6km, az=358.0

ISC 26 02:44:26.1 to 1.5, 56.19N, 164.25E, h0.05, h3km, n22.1, n21.9, 24/5, mb4.5/59, 1C-1D, Komandorsky Islands region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like KBTR, KBG, BKI, BDR, ZLN, BZGR, KRSR, BZWR, BZMR, KIRR, MKZ, KPT, KMN, TUMD, KOZ, SRDR, OSSR, KSPR, SPN, KRER, KRX, SMAR, AVH, UGLR, KOK, GNL, PETK, and others.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like BIAO, ARSA, LESA, SOKA, RETA, WATA, WTTA, MOTA, SOKA, OBTA, MYKA, DAVA, ABTA, FETA, and others.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like APC, ASAK, MIPR, PAU, MAJ, ASAJ, RDOG, ERM, C18K, M17K, C19K, J18K, H19K, D19K, and others.

KRSC 26 02:39:25.6 to 1.1, 56.24N, 164.30E, h53km, 18km, M4.1

MOS 26 02:44:25.6 to 0.8, 56.20N, 164.23E, h11km, mb4.6/10, Error ellipse: s-maj=7.9km, s-min=4.5km, az=53.1

APC 26 02:44:25.7 to 0.6, 56.24N, 164.02E, h0km, mb4.0/23, mbtmp4.0/25, ML3.5/2, Error ellipse: s-maj=18.3km, s-min=12.4km, az=160.0

ISC 26 02:39:26.2 to 1.6, 56.33N, 164.21E, h0km, mb3.6/6, mbtmp3.7/7, ML2.6/1, Error ellipse: s-maj=39.8km, s-min=28.1km, az=173.0

MOS 26 02:44:25.6 to 0.8, 56.20N, 164.23E, h11km, mb4.6/10, Error ellipse: s-maj=7.9km, s-min=4.5km, az=53.1

APC 26 02:44:25.7 to 0.6, 56.24N, 164.02E, h0km, mb4.0/23, mbtmp4.0/25, ML3.5/2, Error ellipse: s-maj=18.3km, s-min=12.4km, az=160.0

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like KBG, BKI, KRSR, MKZ, TUMD, OSSR, KSPR, SPN, SDLR, SMAR, AVH, UGLR, KOK, GNL, PETK, and others.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like BIAO, ARSA, LESA, SOKA, RETA, WATA, WTTA, MOTA, SOKA, OBTA, MYKA, DAVA, ABTA, FETA, and others.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Op, ISC, Time, Res, h, m, s, ISC. Lists stations like APC, ASAK, MIPR, PAU, MAJ, ASAJ, RDOG, ERM, C18K, M17K, C19K, J18K, H19K, D19K, and others.



Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like FWXY Fox Creek, LAO LASSA Array, PDAR Pinedale Array, etc.

Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTR Krutoberegovo, BKI Bering, SMKR Semkarok, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like SDR Sedlovina, UGLR Uglovaya, KRKR Koryakskii, etc.

Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTR Krutoberegovo, BKI Bering, SMKR Semkarok, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like SDR Sedlovina, KRKR Koryakskii, KRKR Koryakskii, etc.

Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTR Krutoberegovo, BKI Bering, SMKR Semkarok, etc.





26d 3h

Table with columns for flight codes (e.g., PCI, MPST, JCJ), destinations (e.g., Palu, Mapaga, Chichijima), times, and status indicators (P, I, L, S, etc.).

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Table with columns for flight codes (e.g., QIZ, INCN, ASAJ), destinations (e.g., Qiongzong, Incheon, Asahikawa), times, and status indicators (P, L, R, etc.).

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Table with columns for flight codes (e.g., HHC, Hu-ho-hao-te, BTO), destinations (e.g., Baotou, Baotou, Baotou), times, and status indicators (eP, P, S, etc.).

O17K	baz=224	77.87	22	P	P	03 30 12.6 +0.2
Q18K	Katmai Hardscr	77.88	23	P	P	03 30 12.9 +0.1
EVN	Everest	77.93	301	P	P	03 30 12.4 -2.0
MOY	Mondy	77.95	328	eP	pmax	03 30 15.8 +2.5
J14K	comp=Z,68nm,3.3s	77.97	17	P	P	03 30 12.3 -0.6
J14K	Nanvaranak Lak	77.97	17	I Amb	I Amb	03 30 23.7
J14K	comp=Z,108nm,1.4s	77.97	17	P	P	03 30 14.3 +1.4
M16K	Timber Creek	78.11	20	P	P	03 30 13.3 -0.5
M16K	comp=Z,53nm,1.1s	78.11	20	P	P	03 30 14.6 +0.8
K15K	Wolf Creek Mou	78.22	18	P	P	03 30 14.0 -0.4
K15K	comp=Z,81nm,1.2s	78.22	18	P	P	03 30 15.4 +1.0
K15K	Wolf Creek Mou	78.22	18	P	P	03 30 15.4 +1.0
KDAK	Kodiak Island	78.28	25	I/P	pmax	03 30 14.1 -0.7
KDAK	comp=Z,44nm,2.3s	78.28	25	P	P	03 30 15.2 +0.4
KDAK	Kodiak Island	78.28	25	P	P	03 30 15.2 +0.4
P18K	Big Mountain,	78.30	22	P	P	03 30 13.3 -1.6
P18K	Big Mountain,	78.30	22	P	P	03 30 15.9 +0.9
N17K	Nushagak Hills	78.36	21	P	P	03 30 15.0 -0.2
N17K	comp=Z,45nm,1.2s	78.36	21	P	P	03 30 15.8 +0.5
N17K	Nushagak Hills	78.36	21	P	P	03 30 15.8 +0.5
L16K	Owhat River	78.44	19	P	P	03 30 14.4 -1.2
L16K	comp=Z,66nm,1.5s	78.44	19	P	P	03 30 16.4 +0.8
L16K	Owhat River	78.44	19	P	P	03 30 16.4 +0.8
PALK	Pallekele	78.50	279	P	P	03 30 15.2 -1.9
PALK	Pallekele	78.50	279	P	P	03 30 15.2 -1.9
PALK	comp=Z,165nm,1.6s	78.50	279	pmax	pmax	
Q19K	Cape Douglas,	78.60	23	P	P	03 30 16.9 +0.3
O18K	Koktuh Hills	78.62	22	P	P	03 30 17.0 +0.4
Q20K	Shuyak Island	78.89	24	P	P	03 30 18.6 +0.5
M17K	Holitna River	78.89	20	P	P	03 30 17.7 -0.4
M17K	Holitna River	78.89	20	P	P	03 30 19.1 +0.9
ANM	Nome	78.90	15	P	P	03 30 19.1 +1.0
N18K	Kilae Creek	78.93	21	I Amb	I Amb	03 30 18.0 -0.4
N18K	comp=Z,47nm,1.1s	78.93	21	P	P	03 30 19.5 +1.1
N18K	Kilae Creek	78.93	21	P	P	03 30 19.5 +1.1
TNA	Tin City	79.08	14	P	P	03 30 20.0 +1.0
L17K	Donlin	79.13	19	P	P	03 30 20.1 +0.7
P19K	Oil Pt	79.23	23	P	P	03 30 20.1 0.0
P19K	comp=Z,47nm,0.9s	79.23	23	I Amb	I Amb	03 30 29.7
P19K	Oil Pt	79.23	23	P	P	03 30 20.9 +0.8
J16K	Anvik River	79.25	18	I Amb	I Amb	03 30 23.4
J16K	comp=Z,54nm,1.1s	79.25	18	P	P	03 30 21.0 +1.0
F14K	Arctic Creek	79.39	14	P	P	03 30 21.9 +1.2
ILSW	Iliamna Southw	79.48	23	I Amb	I Amb	03 30 31.3
M18K	Stony River	79.51	21	P	P	03 30 22.8 +1.3
N19K	Bonanza Creek	79.53	22	P	P	03 30 22.7 +1.0
K17K	Iditarod	79.55	19	I Amb	I Amb	03 30 24.7
K17K	Iditarod	79.55	19	P	P	03 30 22.8 +1.1
G15K	Niukluk	79.59	16	P	P	03 30 22.8 +1.0
I17K	Unalakleet	79.67	17	P	P	03 30 23.9 +1.6
L18K	Granite Mounta	79.72	20	I Amb	I Amb	03 30 33.0
L18K	Granite Mounta	79.72	20	P	P	03 30 24.0 +1.3
O20K	Slope Mountain	79.74	23	P	P	03 30 24.3 +1.4
J17K	VABM Dome	79.80	18	P	P	03 30 24.2 +1.2
H16K	Elim	79.80	16	P	P	03 30 24.4 +1.5
HOM	Home	79.85	24	P	P	03 30 24.7 +1.4
CNPM	China Post	79.93	24	P	P	03 30 23.5 -0.3
CNPM	comp=Z,98nm,1.2s	79.93	24	I Amb	I Amb	03 30 34.1
F15K	North Star Dit	80.00	15	P	P	03 30 25.5 +1.5
BRLK	Bradley Lake	80.22	24	P	P	03 30 24.9 -0.6
BRSE	Bradley Lake S	80.26	24	P	P	03 30 26.9 +1.3
M19K	Big River Lodg	80.30	21	I Amb	I Amb	03 30 29.0
M19K	Big River Lodg	80.30	21	P	P	03 30 27.5 +1.8
L19K	White Mountain	80.32	21	I Amb	I Amb	03 30 28.9
L19K	White Mountain	80.32	21	P	P	03 30 26.9 +0.9
G16K	Koyuk River	80.35	16	I Amb	I Amb	03 30 35.7
G16K	Koyuk River	80.35	16	P	P	03 30 27.0 +1.1
QSPA	South Pole Qui	80.48	180	P	P	03 30 25.7 -1.3
QSPA	comp=Z,26nm,1.0s,slow=1.0,SNR=50	80.48	180	P	P	03 30 27.6 +0.6
J18K	Innoko River	80.59	19	I Amb	I Amb	03 30 26.3 -1.0
J18K	comp=Z,97nm,1.8s	80.59	19	P	P	03 30 37.6
J18K	Innoko River	80.59	19	P	P	03 30 27.8 +0.5
N20K	Mount Spurr	80.62	22	P	P	03 30 27.5 -0.1
H17K	Granite Mounta	80.68	17	I Amb	I Amb	03 30 26.9 -0.8
H17K	comp=Z,93nm,1.9s	80.68	17	P	P	03 30 37.5
H17K	Granite Mounta	80.68	17	P	P	03 30 28.5 +0.8
M20K	Styx River	80.73	21	P	P	03 30 27.4 -0.8
M20K	Styx River	80.73	21	P	P	03 30 29.4 +1.2
L20K	Farewell, AK	80.86	21	P	P	03 30 30.4 +1.6
G17K	Kiwaliik Mounta	80.89	16	P	P	03 30 29.6 +0.7
SLKM	Skilak Lake	80.94	23	I Amb	I Amb	03 30 28.6 -0.7
SEW	Seward	81.00	24	P	P	03 30 39.1
SEW	comp=Z,143nm,1.8s	81.00	24	P	P	03 30 28.4 -1.0
SEW	Seward	81.00	24	P	P	03 30 30.3 +0.8
H18K	Honhosa River	81.29	17	P	P	03 30 30.6 -0.4
H18K	Honhosa River	81.29	17	P	P	03 30 31.6 +0.6
J19K	Poorman	81.31	19	I Amb	I Amb	03 30 30.5 -0.6
J19K	comp=Z,70nm,1.6s	81.31	19	P	P	03 30 41.8
J19K	Poorman	81.31	19	P	P	03 30 31.9 +0.8
SUA	Susitna One	81.34	22	P	P	03 30 29.6 -1.9
SUA	comp=Z,112nm,1.8s	81.34	22	I Amb	I Amb	03 30 40.1
SUA	Susitna One	81.34	22	P	P	03 30 31.3 -0.2

SKT	Skwentna	81.37	22	P	P	03 30 29.9 -1.6
SKT	Skwentna	81.37	22	P	P	03 30 31.1 -0.5
K20K	Telida	81.38	20	I Amb	I Amb	03 30 29.7 -1.8
K20K	comp=Z,32nm,1.0s	81.38	20	P	P	03 30 41.5
K20K	Telida	81.38	20	P	P	03 30 32.5 +0.9
GCSA	Galena City Sc	81.44	18	P	P	03 30 33.0 +1.3
F17K	Baldwin Pennin	81.44	15	P	P	03 30 31.3 -0.5
F17K	comp=Z,141nm,1.9s	81.44	15	I Amb	I Amb	03 30 42.1
F17K	Baldwin Pennin	81.44	15	P	P	03 30 33.5 +1.8
RC01	Rabbit Creek A	81.49	23	P	P	03 30 31.2 -0.9
RC01	Rabbit Creek A	81.49	23	I Amb	I Amb	03 30 42.2
RC01	Rabbit Creek A	81.49	23	P	P	03 30 32.4 +0.3
PPLA	Purkeypile	81.72	21	P	P	03 30 32.3 -1.2
PPLA	comp=Z,111nm,1.7s	81.72	21	I Amb	I Amb	03 30 43.7
PPLA	Purkeypile	81.72	21	P	P	03 30 34.0 +0.5
G18K	Tagagavik	81.75	17	P	P	03 30 32.5 -1.0
G18K	Tagagavik	81.75	17	P	P	03 30 33.6 +0.7
M22K	Willow	81.75	22	P	P	03 30 32.7 -0.7
M22K	Willow	81.75	22	P	P	03 30 34.4 +0.9
P23K	Montague Islan	81.76	25	P	P	03 30 32.2 -1.4
P23K	Montague Islan	81.76	25	P	P	03 30 34.5 +0.9
E17K	Hotham Inlet	81.78	15	P	P	03 30 34.3 +0.8
C16K	Lisburne Hills	81.88	13	P	P	03 30 34.8 +0.8
PWL	Port Wells	81.89	24	P	P	03 30 33.2 -1.1
PWL	Port Wells	81.89	24	P	P	03 30 34.7 +0.4
J20K	Nowinta River	81.91	19	I Amb	I Amb	03 30 32.9 -1.4
J20K	comp=Z,109nm,1.7s	81.91	19	P	P	03 30 45.0
J20K	Nowinta River	81.91	19	P	P	03 30 35.2 +0.9
D17K	Noatak River	81.95	14	P	P	03 30 36.5 +2.1
F18K	Selawik	81.99	16	P	P	03 30 36.9 +2.3
PMR	Palmer	82.03	23	P	P	03 30 33.1 -1.8
PMR	Palmer	82.03	23	P	P	03 30 36.5 +1.6
PMR	Palmer	82.03	23	pmax	pmax	03 30 33.1 -1.8
PMR	comp=Z,140nm,1.7s	82.03	23	P	P	03 30 35.1 +0.2
CAST	Castle Rocks	82.10	20	I Amb	I Amb	03 30 34.4 -0.9
CAST	Castle Rocks	82.10	20	P	P	03 30 36.5
CAST	Castle Rocks	82.10	20	P	P	03 30 35.4 +0.1
CUT	Chulitna	82.10	22	P	P	03 30 36.2 +0.9
H19K	Roundabout Mou	82.12	18	P	P	03 30 34.6 -0.8
H19K	Roundabout Mou	82.12	18	P	P	03 30 36.0 +0.7
KNK	Knik Glacier	82.18	23	P	P	03 30 34.5 -1.2
KNK	Knik Glacier	82.18	23	I Amb	I Amb	03 30 46.1
KNK	comp=Z,49nm,1.1s	82.18	23	P	P	03 30 36.7 +0.9
GHO	Glory Hole Cre	82.21	23	P	P	03 30 35.5 -0.5
GHO	Glory Hole Cre	82.21	23	I Amb	I Amb	03 30 54.5
I20K	Naagdeneel	82.22	19	P	P	03 30 36.4 +0.5
I20K	Naagdeneel	82.22	19	P	P	03 30 36.5 +0.6
RDOG	Red Dog Mine	82.27	14	P	P	03 30 35.4 -0.7
RDOG	Red Dog Mine	82.27	14	I Amb	I Amb	03 30 45.8
RDOG	Red Dog Mine	82.27	14	P	P	03 30 37.2 +1.1
CHUM	Lake Minchum	82.32	20	P	P	03 30 37.5 +1.1
E18K	Tukpahleirik C	82.35	15	P	P	03 30 36.0 -0.5
E18K	Tukpahleirik C	82.35	15	P	P	03 30 37.5 +1.0
G19K	Purceil Mounta	82.37	17	I Amb	I Amb	03 30 36.1 -0.6
G19K	comp=Z,97nm,1.5s	82.37	17	P	P	03 30 47.1
G19K	Purceil Mounta	82.37	17	P	P	03 30 38.2 +1.5
GLI	Glacier Island	82.40	24	P	P	03 30 36.2 -0.7
GLI	Glacier Island	82.40	24	P	P	03 30 37.5 +0.6
WMQ	Urumqi	82.48	31	eP	PcP	03 30 38.8 +0.9
WMQ	comp=Z,67nm,1.7s	82.48	31	pmax	pmax	03 30 41.0 -1.9
C17K	Delong Mounta	82.53	14	P	P	03 30 38.0 +0.5
H20K	Anoteneega Mo	82.57	18	P	P	03 30 39.0 +1.3
FID	Port Fidalgo	82.57	24	P	P	03 30 36.2 -1.6
FID	comp=Z,74nm,1.6s	82.57	24	I Amb	I Amb	03 30 47.8
KTH	Kantishna Hill	82.59	21	I Amb	I Amb	03 30 37.1 -0.9
KTH	comp=Z,59nm,1.2s	82.59	21	P	P	03 30 46.9
HYB	Hy					

26d 3h

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Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S, Az, El, P, S. Rows include G23K Bananza Creek, M26K Nabesna AK, MENT Mentasta, RIDG Independent Ri, RIDG Independent Ri, H24K Noodor Dome, PNL Peninsula, L26K Log Cabin Wild, L26K Log Cabin Wild, L20K Meade River, C21K Knifeblade Rid, DOT Dot Lake, COLD Coldfoot, J25K Salcha River, J25K Salcha River, O28M Mount Upton, E22K Anaktuvuk Pass, M27K Edge Creek, SCRK Sand Creek, SCRK Sand Creek, B21K Ikpikpuk River, B21K Ikpikpuk River, D22K Aiyikyak River, D22K Aiyikyak River, YUK3 Moose Creek, ZSN Zaisan, ZSN Zaisan, PRP Porcupine Dome, YUK8 Steele Glacier, G24K Hadweznick Riv, G24K Hadweznick Riv, L27K Beaver Creek, L27K Beaver Creek, O29M Mount Kennedy, O29M Mount Kennedy, BCAR Beaver Creek A, BVCY Beaver Creek, P29M Windy Craggy, P29M Windy Craggy, J26L Joseph Creek, SIT Sitka, E23K Chandalar, E23K Chandalar, H24L Birch Creek, F25K Squaw Lake, K27K Chicken, K27K Chicken, YUK6 Outpost Mount, D23K Nanushuk River, D23K Nanushuk River, YUK4 Talbot Arm, G25K Bearman Lake, E24K Your Creek, TOLK Tookik Lake Re, B22K Teshekpuk Lake, B22K Teshekpuk Lake, CRAG Craig, PLBC Pleasant Camp, P30M Million Dollar, S32K Killisnoo, A22K Sinclair Lake, I26K Coal Creek Min, I26K Coal Creek Min, HYT Haines Junctio, U33K Whale Pass, C23K Itkillik River, C23K Itkillik River, R32K Eaglecrest, M29M Somme Creek, M29M Somme Creek, D24K Happy Valley, D24K Happy Valley, F25K Christian River, SKAG Skagway, SKAG Skagway, N30M Aishkik Lake, O30N Mendenhall, G26K Porcupine River, BMAR Burnt Mountain, V35K Ketchikan, WRAK Wrangeli Islan, I27K Kandik River, MK31 Makanchi Array, MKAR Makanchi Array, MKAR Makanchi Array.

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S, Az, El, P, S. Rows include E25K Arctic Village, E25K Arctic Village, C24K Franklin Bluff, C24K Franklin Bluff, DAWY Dawson, DAWY Dawson, L29M L29M, L29M L29M, MAKZ Makanchi, MAKZ Makanchi, MAKZ Makanchi, F26K Sheenjek River, F26K Sheenjek River, H27K Steamboat Moun, N31M Braeburn, WHY Whitehorse, D25K Kavik River, I28M Miner Creek, I28M Miner Creek, G27K Doyon Strip, G27K Doyon Strip, K29M Barlow Dome, ZAAO Zalesovo Array, ZALV Zalesovo Beam, ZALV Zalesovo Beam, BBB Bella Bella, SHLS Shalkode, SHLS Shalkode, I29M Ogilvie Camp, I29M Ogilvie Camp, S34M Telegraph Cree, P33M Teslin, MAYO Mayo, UZB Uzunbulak, UZB Uzunbulak, C26K Camden Bay, T35M Bob Quinn, M31M Drury Creek, E27K Coleen River, E27K Coleen River, C27K Jagro River, N32M Quiet Lake, H29M Whitestone, J30M Hart River, J30M Hart River, YBH Yreka Blue Hor, YBH Yreka Blue Hor, YBH Yreka Blue Hor, KPKS Kokpek, KPKS Kokpek, F28M Elow Crow, SATY Saty, SATY Saty, FARO Faro, I30M Mount Dempster, R33M Jennings River, DLBC Dease Lake, G29M Pine Creek, G29M Pine Creek, D27M Malcolm River, EPYK Eagle Plains, EPYK Eagle Plains, TDK Taldyqorghan, TDK Taldyqorghan, AFDM Forest Hills D, AFDM Forest Hills D, E28M Babbage River, E28M Babbage River, CMB Columbia Colle, CMB Columbia Colle, G30M tAoh Zraii Nji, G30M tAoh Zraii Nji, KSH Kashi, KSH Kashi, E29M Blow River, AAA Alma-Ata, AAA Alma-Ata, H31M Peel River, H31M Peel River, MMPY Sheldon Lake, MMPY Sheldon Lake, BEKR Beckworth, BEKR Beckworth, F30M Barrier River, F30M Barrier River, F30M Barrier River.

Table with columns: ID, Name, Az, El, P, S, Az, El, P, S, Az, El, P, S, Az, El, P, S. Rows include NRN Naryn, K05A Summer Lake, G31M Satah River, G31M Satah River, PNTR Pine Nut, PNTR Pine Nut, WAKR Walker, WAKR Walker, KURK Kurchatov, KURK Kurchatov, KURB Kurchatov Arra, KURB Kurchatov Arra, KURBB Kurchatov, KURBB Kurchatov, NIL Nilore, NIL Nilore, SYO Syowa Base, INK Inuvik, INK Inuvik, NVAR Mina Array Bea, NVAR Mina Array Bea, DSP Deep Springs, NV11 Mina Array Bea, AAK Ala-Archa, AAK Ala-Archa, AAK Ala-Archa, AAK Ala-Archa, SGDS Sogindya, PFO Pinyon Flats O, PFO Pinyon Flats O, GSC Goldstone, Bar, GSC Goldstone, Bar, ESJX Sierra Juarez, ESJX Sierra Juarez, G08A Pilot Rock, YUH Yuha Desert, YUH Yuha Desert, GWY Greenwater Val, GWY Greenwater Val, BELA Belgrano 2, BELA Belgrano 2, S11A Rachel, S11A Rachel, BMO Blue Mountains, BMO Blue Mountains, SHPR Sheep Range, PRN Pahroc Range, PRN Pahroc Range, BTK Batul, DZA Taraz, DZA Taraz, ELK Elko, ELK Elko, KK31 Karatay Array, KKAR Karatay Array, KKAR Karatay Array, KKAR Karatay Array, IUG Iuzhnay, IUG Iuzhnay, BRLS Boroday, BRLS Boroday, CHM Chiment, CHM Chiment, KNB Kanab, KNB Kanab, U5A Ust'Khim Rim, BVAR Borovoye Array, BVAR Borovoye Array, BRVK Borovoye, BRVK Borovoye, HWUT Hardware Ranch, TROLL Troll, Antari, YKA Yellowknife Ar, YKA Yellowknife Ar, YKA Yellowknife Ar, YKA Yellowknife Ar, SNAA Sanae, SNAA Sanae, SNAA Sanae, SNAA Sanae, PDAR Pinedale Array, VNA3 Neumayer Olymp, VNA2 Neumayer-Watz, TXAR Lajitas Array, ABKAR Akbulak array, ARTI Arti, ARTI Arti, ARTI Arti, AKTO Aktyubinsk, AKTO Aktyubinsk, OK038 West end E0370, OK029 Liberty Lake, DEOK Deopu, BELG Belogornoye, APA Apatity, APA Apatity, APA Apatity.







Table with columns: Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like LLLB, SPITS, GTA, LZH, J05D, etc.

IDC 26 03:54:42.0.1.1.2:30S.138:55E, h0km, mb3.6/4, mblmp3.6/6, ML3.3/2, Error ellipse: s-maj=25.1km s-min=16.8km az=11.0

Main table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like SMPI, GENI, JAY, ASAR, MKAR, etc.

IDC 26 04:13:08.3.2.1.56:11N.164:49E, h0km, mb3.0/2, mblmp3.0/3, ML2.4/1, Error ellipse: s-maj=200.1km s-min=32.4km az=146.0

Table with columns: Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like KPT, KMN, TUMD, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like KBTR, KBG, BKI, etc.

MOS 26 04:17:12.5:0.9.43:94N.147:00E, h106km, mb4.9/48, Error ellipse: s-maj=6.0km s-min=4.4km az=121.9

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like SHO, SHI, etc.

YUK 26 04:17:13.4:0.5.44:01N.147:00E, h109km, mb4.9/30, Error ellipse: s-maj=13.2km s-min=10.6km az=152.0

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, and various other parameters. Includes stations like YUK, etc.

KUR 26 04:13:07.9.1.8.56:24N.109:164:28E, h0.05, h6km, 12km, n25, s1946/30, Komandorsky Islands region

26d 4h

Table with columns for station name, frequency, power, and coordinates. Includes stations like JRA Rausu, JNSB Nemuroshibetsu, JKHJN Kushirohama, etc.

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Table with columns for station name, frequency, power, and coordinates. Includes stations like MA2 Magadan, MA2 Korea Array, KSAR Woujny Array, etc.

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Table with columns for station name, frequency, power, and coordinates. Includes stations like NEA2 Nenana, GHO Glory Hole, E24K Your Creek, etc.



Table with columns: Station Name, Frequency, Mode, and other parameters. Includes stations like PRU Prunhonce, ANTO Ankara, KRUC Moravsky, etc.

Table with columns: Code, Station Name, Frequency, Mode, and other parameters. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, SONM Songino Array, etc.

Table with columns: Station Name, Frequency, Mode, and other parameters. Includes stations like KLY Klyuchi, KRKR Krestovskiy, BZWR Bezymyanni-We, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Kavik River, Christian River, Arctic Village, etc.

ISK 26 04:36:56.9, 37:09N-27:65E, h13km, ML2.5/10
AFAD 26 04:36:56.2, 37:05N-27:67E, h7km, 2km, ML1.7
ISC 26 04:36:56.9, 37:07N-0.03, 27:65E, h13km, 7km, n17, 0944/29, Turkey

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Kayabasi, Milas, Bodrum, etc.

ODEM Odemis-zlmir 1.25 15 Pn Pb 04 37 20.3 -0.1

IDC 26 04:46:32.0, 1.9, 55:87N, 164:82E, h0km, mb3.3/3, mbmp3.3/4, ML2.3/1, Error ellipse: s-maj=163.2km

KRSC 26 04:46:32.9, 1.0, 55:98N, 164:04E, h16km, 23km, ML3.7
ISC 26 04:46:31.8, 0.9, 56:16N, 160:07, 164:24E, h10km, n26, 0142/29, mb3.4/3, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Krutoberegovo, Bering, Semkarok, etc.

IDC 26 04:49:57.0, 0.5, 2:63S, 138:58E, h0km, mb4.5/16, mbmp4.5/20, ML4.4/4, MS4.3/6, Error ellipse: s-maj=14.2km s-min=12.4km az=67.0

MOS 26 04:49:57.9, 0.8, 2:64S, 138:44E, h16km, mb4.9/21, Error ellipse: s-maj=13.0km s-min=7.9km az=101.5

NEIC 26 04:49:58.7, 1.2, 2:66S, 138:50E, h10km, 1km, mb5.0/123, Error ellipse: s-maj=14.7km s-min=11.0km az=179.0

DJA 26 04:50:00.2, 0.6, 3:3S, 13:13E, h14km, 5km, M4.8/23, mb4.7/23, mb5.5/6, MLV4.8/8, Mw(mb)4.9/6, MwMwp6.9/1, Mw6.7/1

ISC 26 04:49:58.7, 0.3, 2:68S, 138:52E, h10km, n432, 01902/405, mb4.9/105, MS4.7/7, 5C-11D, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

WRA Warramunga Arr 17.61 193 Pn Pb 04 54 02.5 -1.9

WRR Warramunga Arr 17.62 193 Pn Pb 04 54 15.6 -1.9

WRAB Tennant Creek 17.62 193 Pn Pb 04 54 03.6 -1.0

WRAB Tennant Creek 17.62 193 Pn Pb 04 54 06.2 +0.6

WRA Warramunga Arr 17.63 193 Pn Pb 04 54 01.6 -3.2

WRA Warramunga Arr 17.63 193 Pn Pb 04 54 03.8 -1.0

WRA Warramunga Arr 17.63 193 Pn Pb 04 54 25.8 -3.1

QIS Mount Isa 17.80 177 Pn Pb 04 54 08.4 +0.9

TOLIT Toltit 18.10 282 Pn Pb 04 54 10.5 -0.4

TITZ Tana Toraja 18.65 288 Pn Pb 04 54 17.1 -0.2

MPSI Mapaga 18.86 279 Pn Pb 04 54 18.1 -1.1

FITZ Fitzroy Crossi 19.85 219 Pn Pb 04 54 29.5 -0.6

FITZ Fitzroy Crossi 19.85 219 Pn Pb 04 54 31.1 -0.6

FITZ Fitzroy Crossi 19.85 219 Pn Pb 04 54 17.1 +2.1

FITZ Fitzroy Crossi 19.85 219 Pn Pb 04 54 31.7 -0.0

ASAR Alice Springs 21.33 192 Pn Pb 04 54 45.8 -0.3

KSM Kuching 28.50 278 P P 04 55 53.3 -1.3

STKA Stephens Creek 28.19 175 P P 04 56 00.8 +0.4

JOW Kunigami 30.97 342 LR LR 05 06 16.8

MDSI Maura Dua 34.32 266 P P 04 56 46.7 +0.8

LWLI Liwa 34.46 265 P P 04 56 48.8 +1.6

NWAO Narragin (SRO) 36.10 211 LR LR 05 12 20.6

JNU Nakatsue 36.34 349 P P 04 57 01.4 -1.6

NJ2 Nanjing 39.27 333 eP Pmax 04 57 30.8 +3.1

RPSI Rantau Prapat 39.94 277 P P 04 57 32.4 -1.3

PSI Prapat 39.95 278 P Pmax 04 57 32.4 -1.5

JSD Sado 40.52 360 P P 04 57 36.3 -1.8

KSRs Korea Array 41.13 347 P P 04 57 42.2 -0.8

SLVN Son La 41.44 307 P P 04 57 44.2 -1.8

CMAR Chiang Mai Arr 44.26 300 P P 04 58 09.8 +0.9

KMI Kunming 44.36 311 P Pmax 04 58 11.0 +1.2

LYN LuoYang 44.40 329 eP Pmax 04 58 11.3 +1.6

HNS HongShan 45.60 333 P Pmax 04 58 20.0 +0.8

PZH PanZhiHua 45.87 312 P Pmax 04 58 27.3 +5.6

XAN Xi'an 45.95 325 P Pmax 04 58 22.0 -0.1

BJI Beijing 47.20 337 P Pmax 04 58 32.3 +0.6

MDJ Mudanjiang 47.76 351 P Pmax 04 58 37.5 +1.4

BNX BinXian 49.21 350 P Pmax 04 58 47.5 +0.3

HHC Hu-ho-hao-te 49.82 333 eP Pmax 04 58 55.5 +3.4

TUWZ Tuamotu 50.00 145 P P 04 58 53.5 +0.2

TCW Tory Channel 50.05 145 P P 04 58 53.9 +0.2

LZH Lanzhou 50.35 323 eP Pmax 04 58 55.5 -0.8

LZH Lanzhou 50.35 323 eP Pmax 04 59 14.8 +1.4

LZH Lanzhou 50.35 323 eP Pmax 04 59 36.4 +1.1

LZH Lanzhou 50.35 323 eP Pmax 04 59 39.3 +0.9

LZH Lanzhou 50.35 323 eP Pmax 04 59 45.6 +1.5

LZH Lanzhou 50.35 323 eP Pmax 04 59 48.0 +1.1

MRZ Mangatainoka 50.46 144 P Iamb 04 58 56.3 -0.6

MRZ Mangatainoka 50.46 144 P Iamb 04 58 59.8

KLR Kul'dur 52.04 354 P P 04 59 09.0 +0.5

KLR Kul'dur 52.04 354 eP Pmax 04 59 09.8 +1.3

HEH Heihe 53.59 351 eP P 04 59 20.5 +0.6

GTA Gaotai 54.94 324 eP Pmax 04 59 31.0 +0.8

GTA Gaotai 54.94 324 eP Pmax 04 59 44.3 -1.0

GTA Gaotai 54.94 324 eP Pmax 04 59 48.7 +1.3

SONM Songino Array 57.62 335 P P 04 59 48.8 -0.3

SONM Songino Array 57.62 335 P P 04 59 48.8 -0.6

SONM Songino Array 57.62 335 P Pmax 04 59 48.8 -0.3

ZAK Zakamensk 60.88 335 eP Pmax 05 00 11.3 -0.4

HYB Hyderabad 62.39 291 eP P 05 00 21.9 -0.5

MOY Mondy 62.81 335 eP Pmax 05 00 25.4 +0.8

MA2 Magadan 62.82 70eP P 05 00 24.8 +0.4

WMO Urumqi 64.87 322 eP Pmax 05 00 40.0 +1.6

YAK Yakutsk 64.89 355 P P 05 00 38.0 +0.1

26d 4h

YAK	comp=N,416nm,17.0s	MLR	MLR		
SEY	comp=E,431nm,18.0s	7J	eP	P	05 00 47.8 +0.9
CASY	comp=Z,1.5nm,2.3s		pmax	P	
CASY	Casey	66.46	192	IAMB	05 00 48.3 +0.2
MK31	comp=Z,1.7nm,1.6s				
MKAR	Makanchi Array	69.65	322	P	05 01 08.4 -0.2
MKAR	Makanchi Array	69.65	322	P	05 01 07.6 -1.0
MKAR	Makanchi Array	69.65	322	P	05 01 08.9 +0.3
MAKZ	comp=Z,8.9nm,1.0s				
MAKZ	Makanchi	69.85	322	P	05 01 08.2 -1.6
MAKZ	Makanchi	69.85	322	P	05 01 08.2 -1.6
TARG	comp=Z,2.3nm,1.2s				
TARG	Taragay, Kyrgy	70.43	316	P	05 01 13.2 -0.8
TARG	Taragay, Kyrgy	70.43	316	P	05 01 13.2 -0.8
ZALV	comp=Z,8.0nm,1.1s				
ZALV	Zalesovo Beam	71.82	330	P	05 01 19.8 -1.8
ZALV	Zalesovo Beam	71.82	330	P	05 01 20.7 -0.9
BOOM	comp=Z,0.8nm,0.3s				
BOOM	Boomsokoye usch	72.00	316	P	05 01 22.2 -0.9
BOOM	Boomsokoye usch	72.00	316	P	05 01 22.3 -0.9
UNAV	comp=Z,9.0nm,1.1s				
UNAV	Unalaska Valle	72.41	31	P	05 01 25.4 +0.3
AAK	Ala-Archa	73.06	316	eP	05 01 30.2 +0.8
BILL	comp=Z,6.0nm,1.3s				
BILL	Billibino	73.18	11J	eP	05 01 29.5 +0.1
KURK	comp=Z,5.0nm,1.7s				
KURK	Kurchatov	73.59	325	P	05 01 31.1 -1.0
KURK	Kurchatov	73.59	325	P	05 01 31.9 -0.2
KURB	Kurchatov Arra	73.60	325	P	05 01 31.9 -0.3
ARSB	comp=Z,1.9nm,0.7s				
ARSB	Arslanbob	73.68	314	P	05 01 32.2 -0.9
ARSB	Arslanbob	73.68	314	P	05 01 32.2 -0.9
TIXI	comp=Z,7.0nm,0.8s				
TIXI	Tiksi	74.47	357	P	05 01 35.7 -1.1
TIXI	Tiksi	74.47	357J	eP	05 01 35.8 -1.1
S12K	comp=Z,1.3nm,1.7s				
S12K	Black Hills	75.56	30	P	05 01 44.8 +1.2
VNDA	Vanda	75.82	175	IAMB	05 01 44.6 -0.1
VNDA	Vanda	75.82	175	IAMB	05 01 48.7
VNDA	Vanda	75.82	175	P	05 01 45.2 +0.6
SIMJ	comp=Z,1.7nm,0.6s				
SIMJ	Simiganj	75.83	311	IAMB	05 01 44.1 -1.5
KKAR	comp=Z,8.8nm,0.9s				
KKAR	Karatay Array	75.98	316	P	05 01 45.7 -0.5
KKAR	Karatay Array	75.98	316	P	05 01 45.5 -0.8
KKAR	Karatay Array	75.98	316	P	05 01 45.7 -0.5
SDPT	comp=Z,4.0nm,1.1s				
SDPT	Sand Point	76.21	31	P	05 01 48.4 +1.2
S14K	Fog Glacier	77.08	30	P	05 01 53.0 +0.7
M13K	Dall Lake	77.21	26	P	05 01 54.2 +1.4
K13K	Kusilvak Mount	77.44	24	P	05 01 55.0 +1.0
O14K	Tiguykuiwet M	77.58	27	P	05 01 54.7 -0.2
L14K	Kuka Creek	77.95	25	P	05 01 57.5 +0.6
L14K	Kuka Creek	77.95	25	P	05 01 57.8 +1.0
M14K	Bethel	77.98	26	P	05 01 57.7 +0.8
M14K	Bethel	77.98	26	P	05 01 57.8 +0.8
TNA	Tin City	78.19	20	P	05 01 59.8 +1.7
O15K	Ungalikthiuk R	78.21	28	P	05 01 59.1 +0.8
M15K	Kasigluk River	78.53	27	P	05 02 01.2 +1.1
ANM	Nome	78.55	21	P	05 02 01.4 +1.3
L15K	Ungalak Mounta	78.62	25	P	05 02 00.8 +0.2
F14K	Arctic Creek	78.70	20	P	05 02 01.8 +0.9
K15K	Wolf Creek Mou	78.89	24	P	05 02 03.0 +0.9
K15K	Wolf Creek Mou	78.89	24	P	05 02 03.3 +1.2
CHIR	Chirikof Islan	78.92	32	P	05 02 03.5 +1.1
P16K	Nushagak River	79.00	28	P	05 02 03.9 +1.2
BVAR	Borovoye Array	79.18	325	P	05 02 03.4 -0.5
O16K	comp=Z,2.3nm,0.4s				
O16K	Kokwok River B	79.19	28	P	05 02 04.7 +1.0
BRVK	Borovoye	79.25	325	P	05 02 03.9 -0.4
BRVK	Borovoye	79.25	325	P	05 02 03.9 -0.4
BRVK	Borovoye	79.25	325	P	05 02 03.9 -0.4
N16K	comp=Z,9.0nm,1.1s				
N16K	Nishit Lake	79.25	27	P	05 02 05.1 +0.9
G16K	Niuklu	79.26	21	P	05 02 04.9 +0.8
M16K	Timber Creek	79.41	26	P	05 02 04.3 -0.6
M16K	Timber Creek	79.41	26	P	05 02 05.9 +0.9
F15K	North Star Dit	79.41	21	P	05 02 06.0 +1.2
L16K	Owhat River	79.49	25	P	05 02 06.1 +0.8
Q16K	King Salmon	79.50	29	P	05 02 05.7 +0.3
Q17K	Contact Creek	79.71	29	P	05 02 06.8 +0.1
O17K	Koliganek Bris	79.72	28	P	05 02 07.6 +0.9
J16K	Anvik River	79.73	24	P	05 02 07.8 +1.1
H16K	Elim	79.74	22	P	05 02 07.7 +1.0
P17K	Kvitichak River	79.80	28	P	05 02 08.0 +0.9
SLM	Sitkinak Islan	79.94	31	P	05 02 08.7 +0.8
ACHA	Angle Creek He	79.96	29	P	05 02 08.1 0.0
I17K	Unalakleet	79.98	23	P	05 02 08.3 +0.3
N17K	Nushagak Hills	79.99	27	P	05 02 08.8 +0.7
N17K	Nushagak Hills	79.99	27	P	05 02 18.8
N17K	Nushagak Hills	79.99	27	P	05 02 09.0 +0.9
G16K	Koyuk River	80.07	21	P	05 02 08.7 +0.2
R18K	Karluk	80.16	30	P	05 02 09.3 +0.2
L17K	Donlin	80.17	25	P	05 02 09.6 +0.5
M17K	Holitna River	80.23	26	P	05 02 10.7 +1.3
M17K	Holitna River	80.23	26	P	05 02 20.2
M17K	Holitna River	80.23	26	P	05 02 10.3 +0.9
Q18K	Katmai Hardscr	80.28	29	P	05 02 09.8 -0.1
J17K	VABM Dome	80.40	24	P	05 02 10.2 -0.1
K17K	Iditarod	80.42	25	P	05 02 09.5 -0.9
K17K	Iditarod	80.42	25	P	05 02 19.2
K17K	Iditarod	80.42	25	P	05 02 10.4 0.0

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P18K	Big Mountain,	80.45	28	P	P	05 02 10.8 +0.1
C16K	Lisburne Hills	80.56	18	P	P	05 02 11.5 +0.5
OHAK	Old Harbor	80.63	31	P	P	05 02 11.4 -0.2
O18K	Koktuk Hills	80.64	28	P	P	05 02 11.1 -0.5
N18K	Kilae Creek	80.64	27	P	P	05 02 11.9 +0.3
N18K	Kilae Creek	80.64	27	P	P	05 02 13.8
N18K	Kilae Creek	80.64	27	P	P	05 02 11.7 +0.1
G17K	Kwaili Mouna	80.75	22	P	P	05 02 12.2 +0.1
H17K	Granite Mounta	80.76	22	P	P	05 02 12.7 +0.5
L18K	Granite Mounta	80.89	25	P	P	05 02 12.7 -0.2
D17K	Noatak River	80.98	19	P	P	05 02 13.1 -0.1
F17K	Baldwin Pennin	80.98	21	P	P	05 02 13.5 +0.2
M18K	Stony River	80.98	26	P	P	05 02 14.1 +0.7
Q19K	Cape Douglas,	81.04	29	P	P	05 02 13.8 0.0
E17K	Holham Inlet	81.09	20	P	P	05 02 13.9 0.0
KDAK	Kodiak Island	81.18	30	P	P	05 02 14.8 +0.2
KDAK	Kodiak Island	81.18	30	eP	pmax	05 02 15.4 +0.9
KDAK	Kodiak Island	81.18	30	P	pmax	05 02 15.1 +0.6
O19K	Port Alsworth	81.18	28	P	P	05 02 14.2 -0.2
RDOG	Red Dog Mine	81.22	19	P	P	05 02 15.2 +0.6
N19K	Bonanza Creek	81.33	27	P	P	05 02 14.6 -0.8
N19K	Bonanza Creek	81.33	27	P	P	05 02 25.0
N19K	Bonanza Creek	81.33	27	P	P	05 02 15.8 +0.4
C17K	DeLong Mountai	81.35	19	P	P	05 02 15.6 +0.4
P19K	Oil Pt	81.50	28	P	P	05 02 16.1 -0.1
Q20K	Shuyak Island	81.55	30	P	P	05 02 16.6 +0.1
F18K	Selawik	81.62	21	P	P	05 02 17.0 +0.3
L19K	White Mountain	81.67	26	P	P	05 02 16.9 -0.3
L19K	White Mountain	81.67	26	P	P	05 02 18.9
L19K	White Mountain	81.67	26	P	P	05 02 17.8 +0.7
E18K	Tukpahleirik C	81.67	20	P	P	05 02 16.4 -0.5
E18K	Tukpahleirik C	81.67	20	P	P	05 02 27.2
E18K	Tukpahleirik C	81.67	20	P	P	05 02 17.6 +0.6
M19K	Big River Lodg	81.77	26	P	P	05 02 17.8 +0.2
M19K	Big River Lodg	81.77	26	P	P	05 02 28.1
M19K	Big River Lodg	81.77	26	P	P	05 02 18.5 +0.8
J19K	Poorman	82.05	24	P	P	05 02 18.7 -0.3
J19K	Poorman	82.05	24	P	P	05 02 28.5
J19K	Poorman	82.05	24	P	P	05 02 19.9 +0.9
C18K	Utukok River	82.06	19	P	P	05 02 19.6 +0.5
M18K	Mawson	82.08	20	P	P	05 02 19.0 -0.1
MAW	Farewell, AK	82.20	26	P	P	05 02 20.3 +0.3
B18K	Kokolik River	82.22	18	P	P	05 02 20.6 +0.7
HOM	Howar	82.26	29	P	P	05 02 20.7 +0.6
M20K	Styx River	82.32	26	P	P	05 02 19.9 -0.7
M20K	Styx River	82.32	26	P	P	05 02 30.7
M20K	Styx River	82.32	26	P	P	05 02 21.0 +0.4
H19K	Roundabout Mou	82.34	22	P	P	05 02 20.1 -0.4
H19K	Roundabout Mou	82.34	22	P	P	05 02 21.3 +0.8
G19K	Purcell Mounta	82.35	22	P	P	05 02 19.6 -1.0
G19K	Purcell Mounta	82.35	22	P	P	05 02 28.1
G19K	Purcell Mounta	82.35	22	P	P	05 02 21.4 +0.8
F19K	Shalueluk Mo	82.39	21	P	P	05 02 21.0 +0.3
CNPM	China Poot	82.41	29	P	P	05 02 20.6 -0.4
K20K	Telida	82.44	25	P	P	05 02 20.1 -1.0
K20K	Telida	82.44	25	P	P	05 02 30.9
K20K	Telida	82.44	25	P	P	05 02 21.4 +0.2
N20K	Mount Spurr	82.50	27	P	P	05 02 21.8 +0.2
J20K	Nowinta River	82.72	24	P	P	05 02 22.2 -0.3
J20K	Nowinta River	82.72	24	P	P	05 02 32.9
J20K	Nowinta River	82.72	24	P	P	05 02 22.8 +0.3
C19K	Lookout Ridge	82.80	19	P	P	05 02 22.4
C19K	Lookout Ridge	82.80	19	P	P	05 02 22.7 -0.2
I20K	Naaghedeneel	82.81	23	P	P	05 02 23.4 +0.4
E19K	Redstone River	82.85	20	P	P	05 02 22.6 -0.6
E19K	Redstone River	82.85	20	P	P	05 02 33.8
E19K	Redstone River	82.85	20	P	P	05 02 23.4 +0.2
A19K	Wainwright	82.86	17	P	P	05 02 23.7 +0.6
H20K	Einlieneega Mo	82.92	23	P	P	05 02 24.0 +0.4
D19K	Kuna River	83.00	19	P	P	05 02 24.2 +0.2
D19K	Kuna River	83.00	19	P	P	05 02 33.9
D1						





Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like AKTO Aktyubinsk, PV03 Paradox Valley, PV13 Paradox Valley, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like TMBK Timbaki Herakl, TMBK Timbaki Herakl, GVD Gavdhos, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like YTRT Yattir, YTRT Yattir, GEM Giv'at Ha'Em, etc.

IDC 26 05:16:34.31.5, 34.00N:25.02E, h0km, mb4, 1/1, mbtp04, 1.22, ML3, 9/8, Error ellipse: s-maj=29.5km s-min=14.9km az=20.0

NAO 26 05:16:42.1, 34.31N:25.02E, h33km, mb4.1 AFAD 26 05:16:43.0, 34.23N:25.46E, h15km, MW4.0 THE 26 05:16:43.8, 34.1N:25.5E, h63km, 16km, M3, 3/11, ML3, 3/11

KRSC 26 05:16:59.3, 1.3, 56:20N:164.48E, h52km, 22km, M15, 1, [1] at Ust-Kamchatsk IDC 26 05:17:09.2, 0.5, 52:11N:164.30E, h0km, mb4, 2/33, mbtp4, 2/37, ML3, 6/3, MSA, 5/5, Error ellipse: s-maj=14.7km s-min=11.9km az=151.0

Table with columns: Station, Name, Time, Frequency, Mode, and other details. Includes stations like ZLN Zelenaya, ZLN Zelenaya, CIRR Tsirik, etc.

Table with columns: Station, Name, Time, Frequency, Mode, and other details. Includes stations like E24K Your Creek, C24K Franklin Bluff, ILAR Eielson Array, etc.

Table with columns: Station, Name, Time, Frequency, Mode, and other details. Includes stations like EYMN Ely, BTX Batken, BELG Belogorovye, etc.



Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like MYKA Terra Mystica, ABTA Abfalterbach, FETA Feichten, etc.

ICD 26 05:23:28.0s.7.7.30.47Sx178.24W, h111km, 33km, mb3.8/2, mbmp4.2/2, Error ellipse: s-maj=99.2km s-min=27.0km az=150.0

ISC 26 05:23:29.6.1.0.30.1S:0.2x178.9W, h2, h100km, n9, c2501/10, Kermadec Islands

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like RAO Raoul Island, URZ Urewera, ASAR Alice Springs, etc.

UPA 26 05:23:48.9s.1.1.8.35N:82.87W, h18km, 2km, MW6.1, Fault plane solution: NP1:phi=108.000000, delta=87.000000, lambda=2.000000

MOS 26 05:23:48.4s.1.0.8.41N:82.77W, h33km, mb6.1/26, MS5.9/21, Error ellipse: s-maj=8.9km s-min=5.8km az=106.0

UCR 26 05:23:48.7.1.2.8.33N:82.82W, h26km, 2km, MW6.4, Fault plane solution: NP1:phi=109.570000, delta=57.390000, lambda=13.470000

CATCA 26 05:23:48.9s.5.8.8.5N:5.8W, h16km, 5km, Mb5.2/4, mb6.3/15, mb6.9/21, MLV6.9/24, Mw(mb)6.8/21, MwMwp5.7/10, MwMps.8/10, Error ellipse: s-maj=10.9km s-min=5.5km az=171.0, Moment Tensor Solution. Moment tensor: Scale 10^18 Nm; Mrr:0.96; Mss:1.95; Mtt:2.91; Mrr:0.02; Mss:1.51; Mtt:0.45; Fault plane solution: M0.3, 0.1367x10^18 NP1:phi=118.91942, delta=81.93747, lambda=7.0, 13970. NP2:phi=28.89982, delta=86.1618, lambda=171.93744. Principal axes: T=2.3963, P=5.7899, Azm=343.6250; N=0.9872, P=1.9393, Azm=192.935; P=3.3835, P=5.5834, Azm=74.1940; Moment Tensor Solution. Moment tensor: Scale 10^18 Nm; Mrr:0.95; Mss:1.89; Mtt:2.85; Mrr:0.09; Mss:1.54; Mtt:0.37; Fault plane solution: M0.2, 97.150x10^18 NP1:phi=118.47732, delta=81.42854, lambda=2.35815. NP2:phi=28.12566, delta=87.66820, lambda=171.42139. Principal axes: T=2.3782, P=1.7100, Azm=343.0016; N=0.9528, P=1.8112, Azm=193.0318; P=3.3310, P=4.3943, Azm=73.5977; Moment Tensor Solution. Moment tensor: Scale 10^18 Nm; Mrr:0.85; Mss:1.77; Mtt:2.62; Mrr:0.16; Mss:1.40; Mtt:0.41; Fault plane solution: M0.2, 73.95x10^18 NP1:phi=118.95045, delta=87.48632, lambda=4.0775. NP2:phi=28.09899, delta=85.6112, lambda=168.45310. Principal axes: T=2.2271, P=1.12091, Azm=343.0311; N=0.8320, P=1.76821, Azm=187.8650; P=3.0591, P=5.0422, Azm=74.0329; Moment Tensor Solution.

Moment tensor: Scale 10^18 Nm; Mrr:0.29; Mss:1.65; Mtt:1.94; Mrr:0.04; Mss:1.01; Mtt:0.30; Fault plane solution: M0.2, 05.109x10^18 NP1:phi=121.41099, delta=24151.1, lambda=1.0752. NP2:phi=211.82382, delta=91.324. lambda=1.7422678. Principal axes: T=1.8796, P=1.1778, Azm=346.5459; N=0.3243, P=1.862.9307, Azm=247.0033; P=2.1939, P=1.6695, Azm=76.6899; confirmed BGR 26 05:23:49.2.9.29N:83.47W, h33km, mb5.7, mb\_BB6.2, Ms6.3

IDC 26 05:23:49.7.3.3.8.46N:82.74W, h33km, 25km, mb4.9/28, mbmp5.2/32, ML4.8/5, MS5.8/52, Error ellipse: s-maj=16.8km s-min=9.4km az=57.0 NEIC 26 05:23:50.4.8.35N:82.76W, h30km, Moment Tensor Solution. Duration: 61 Moment tensor: Scale 10^18 Nm; Mrr:0.24; Mss:2.20; Mtt:2.44; Mrr:0.56; Mss:1.25; Mtt:0.07; Fault plane solution: M0.2, 70000x10^18 NP1:phi=20.15000, delta=879.70000, lambda=171.59000. NP2:phi=301.66000, delta=81.73000, lambda=10.41000. Principal axes: T=2.6469, P=1.30000, Azm=166.0000; N=0.1094, P=1.77000, Azm=340.0000; P=2.7564, P=1.0000, Azm=76.0000

NEIC 26 05:23:50.4.8.45N:82.76W, h2km, mbmp5.2/32, ML4.8/5, MS5.8/52, Error ellipse: s-maj=16.8km s-min=9.4km az=57.0 ISC-PP 26 05:23:51.8.46N:82.74W, h18km, Mwppsm6.2, Moment Tensor Solution. s29 Moment tensor: Scale 10^18 Nm; Mrr:0.13; Mss:0.66; Mtt:0.81; Mrr:1.14; Mss:0.22; Mtt:2.1; Mrr:0.32; Mss:1.1; Mrr:0.08; lambda=14; Fault plane solution: M0.2, 75000x10^18 NP1:phi=133.50000, delta=50.10000, lambda=192.40000. NP2:phi=235.50000, delta=50.50000, lambda=40.50000

NEIC 26 05:23:51.5.2.3.8.46N:0.06:82.75W, h33km, 4km, mb5.9/925, Ms 20.5.9/945, Mwmb6.1/55, Mwmb6.2/100 Error ellipse: s-maj=8.8km s-min=7.0km az=220.0, Moment Tensor Solution. Moment tensor: Scale 10^18 Nm; Mrr:0.06; Mss:1.58; Mtt:1.94; Mrr:0.20; Mss:0.77; Mtt:0.39; Fault plane solution: M0.1, 100x10^18 NP1:phi=123.65000, delta=85.14000, lambda=10.25000. NP2:phi=214.53000, delta=79.79000, lambda=175.06000. Principal axes: T=2.0378, P=1.64000, Azm=169.0000; N=0.1344, P=1.79000, Azm=279.0000; P=2.1723, P=1.11000, Azm=79.0000

OSUNB 26 05:23:52.1.0.3.8.27N:82.81W, h54km, 2km, mb6.0/50 Error ellipse: s-maj=2.3km s-min=2.9km az=0.0 GCMT 26 05:23:52.6.0.1.8.34N:82.87W, h33km, MW6.3/171, Moment Tensor Solution. s163c398; s171c650; Duration: 3s3 Moment tensor: Scale 10^18 Nm; Mrr:0.54; Mss:1.01; Mtt:2.95; Mrr:0.43; Mss:0.2; Mrr:1.49; Mss:0.08; lambda=0. Best double couple: M0.3, 10400x10^18 NP1:phi=210.00000, delta=81.00000, lambda=175.00000. NP2:phi=301.00000, delta=85.00000, lambda=9.00000. Principal axes: T=2.8620, P=1.0200, Azm=166.0000; N=0.4780, P=1.0200, Azm=329.0000; P=-3.3450, P=1.3000, Azm=75.0000; nsta1 refers to body waves, cutoff=40s. nsta2 refers to surface/mantle waves, cutoff=50s. Triangular moment-rate function

BUI 26 05:23:52.1.8.40N:82.80W, h40km, mb6.1/42, Ms6.4/73, Ms7.6/272 SNET 26 05:23:55.4.0.6.8.73N:83.10W, h10km, ML6.3 ISC 26 05:23:59.6.0.3.8.34N:0.02:82.81W, h52km, 1km, 2km, h32km; pp-P. n2274. s1662/1738, mb5.9/409, MS5.9/562, 187C-84D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like LESP3 La Esperanza, LPPC Paso Canoas, LMNES Limones, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like BRU2 Volcan, BRU1 Volcan, BRU3 Volcan, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like BRU2 Volcan, BRU1 Volcan, BRU3 Volcan, etc.

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like BRU2 Volcan, BRU1 Volcan, BRU3 Volcan, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like ABE2 San Pablo, STIA3 Santiago, PCAYA Pacayas, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like VTCV VTCV, RESJ San Isidro, RESB Siquires, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like TAGO Cartago, PICV Pir Piris, ABRB Las Abraz, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like RAFA San Rafael, CVTV Taji, PAVR Arenas Pro, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like VTLA Turrialba Volc, VTR0 Volcan Turrial, RVLA Villa Bonita, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like VICA Volcano Irazu, CAL03 Calobre, Veragu, TRIO Tres Rios, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like ACOS Acosta, AMPA Desamparados, COMR Coronado, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like ECI Escuela Centro, SJS3 Mercedes San, LUJA Lujan, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SJS Escuela Geologica, CIMVO Finca Echanti, LURE Guadalupe, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like LFCE La Florida, MEXI Barrio Mexico, TIBA Tibas, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like PAVB Pavas, San Jos, DOIMI Santo Domingo, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like SARH Sarca Ana, HDC Heredia, HDC Heredia, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like HDC Heredia, HEME Heredia, Merce, PURI Puriscal, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res. Includes stations like BELB Belen, CACAO Cacao, Vera, CCAE El Cacao, Vera, etc.

26d 5h

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Table with columns: Call Sign, Location, Frequency, Power, Mode, and other technical details. Includes stations like MACP Malpeo, NANN Nandasma, SABB Sabanita, etc.

Table with columns: Call Sign, Location, Frequency, Power, Mode, and other technical details. Includes stations like CRJC Carrejon, PIAT Ana Tenorio, RTAL Retul, etc.

Table with columns: Call Sign, Location, Frequency, Power, Mode, and other technical details. Includes stations like CBE Ff, Capesteer, CBE Ff, Capesteer, FDF Fort de France, etc.



Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like ISCO Idaho Springs, AC02 Maricunga, AC06 Mina Casino, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like RSSD Black Hills, RSSD Black Hills, RSSD Black Hills, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, and other technical details. Includes stations like NVAR Mina Array Bea, NVAR Little Hutton, LHV Little Hutton, etc.

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Table with columns: ID, Name, Frequency, Mode, Class, Power, etc. Includes stations like ANA01 Lindo Horizont, O02D Mt. Diablo Mer, NBPA Parau\_RN, etc.

2019 JUN

Table with columns: ID, Name, Frequency, Mode, Class, Power, etc. Includes stations like PLCA Paso Flores, PLCA Paso Flores, PLCA Paso Flores, etc.

26d 5h

Table with columns: ID, Name, Frequency, Mode, Class, Power, etc. Includes stations like PAGU Aguvalva, PAGU Aguvalva, PAGU Aguvalva, etc.







Table with columns: Station ID, Name, Frequency, Power, Direction, and other technical details. Includes stations like ECAL Calabor, H20K Melozitna River, H21K Melozitna River, etc.

Table with columns: Station ID, Name, Frequency, Power, Direction, and other technical details. Includes stations like ESDC Sonseca Array, E20K Nigu River, SDPT Sand Point, etc.

Table with columns: Station ID, Name, Frequency, Power, Direction, and other technical details. Includes stations like FALS False Pass, L14K Kukka Creek, H16K Utukok River, etc.







Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like CSTBL De las Acacias, RSRNO Rio Sereno, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like KOK Koryaka, GNL Ganaly, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, etc.

IDC 26 05:40:42.9-0.7, 5.6; 18N-164.18E, h0km, mb3.7, 222, mbtop3.8, 24, ML3.1/2, Error ellipse: s-maj=19.7km, s-min=13.0km az=159.0

KRSC 26 05:40:43.1-4.1, 5.6; 18N-164.43E, h47km, 31km, M4.4, MOS 26 05:40:44.3-1.2, 5.6; 16N-164.38E, h25km, mb4.8/1, Error ellipse: s-maj=8.5km s-min=5.2km az=49.2

NEIC 26 05:40:44.3-1.5, 5.6; 11N-0.09-164.4E-0.1, h10km, 1km, mb4.2/21, Error ellipse: s-maj=16.0km s-min=9.0km az=207.0

ISC 26 05:40:44.1-0.4, 5.6; 14N-0.05-164.41E-0.04, h10km, n134, r+108/132, mb3.9/27, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like SPITS Spitsbergen Arr, SPB2 Spitsbergen Arr, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Op, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, etc.

UPA 26 05:41:21.8-0.8, 8.33N-82.82W, h16km, 3km, MW3.9, UCR 26 05:41:22.1-0.6, 8.33N-82.83W, h32km, 1km, MW3.9, Fault plane solution: Np1;phi140.00000, delta35.00000, lambda90.00000, ISC 26 05:41:22.8-1.0, 8.36N-0.03-82.81W-0.02, h10km, n44, c+147/66, 6C-1D, Panama-Costa Rica border region



Table with columns: BRIBI, MESA3, RSUS3, STIAG, CALO3, CACAO, TOSIS, AZU, BCIP. Includes station names, coordinates, and time/phase data.

WEL 26 05:43:54.5 ± 1.6, 33°S 26°17'9"W, 5.3, h33km, M3.6/3, mB4.4/3, ML4.0/7, MLV3.6/3, Mw(mB)3.5/3, Error ellipse: s-maj=76.5km s-min=12.1km az=115.3, confirmed.

Table with columns: Code, Station Name, Δ, AZ, Phase ID, Time, Res. Lists stations like Pakihiroa, Te Kaha, Puketiti, Raukumara Rang, Te Karaka, Matawai, Urewera.

KRSC 26 05:44:52.0 ± 1.1, 55°99N:164.25E, h155km, 20km, M13.6, Komandorsky Islands region

Table with columns: Code, Station Name, Δ, AZ, Phase ID, Time, Res. Lists stations like Krutoberegovo, Bering, Semkarok, BZRGR, etc.

UCR 26 05:47:22.0 ± 0.9, 8°33N:82°82'W, h29km, 1km, MW4.7, Fault plane solution: NP1:φ=135.11000°, δ86.47000°, λ3.54000°.

UPA 26 05:47:23.6 ± 1.1, 8°39N:82°82'W, h24km, 3km, MW4.7, Fault plane solution: NP1:φ=33.00000°, δ58.00000°, λ-180.00000°.

RSNC 26 05:47:24.5 ± 0.9, 8°N 3°W, h34km, 15km, M3.7, mb4.5, mB6.1, ML3.7, Mw(mB)5.7

CATAC 26 05:47:25.4 ± 0.6, 9°N 4°W, h29km, 3km, M4.6/14, mb4.7/10, mB5.1/3, ML4.6/8, Mw(mB)4.4/3, Error ellipse: s-maj=10.8km s-min=4.6km az=31.3, confirmed.

IDC 26 05:47:29.4 ± 5.8, 10.04N:82°68'W, h0km, mb3.6/3, mbmp3.8/5, ML3.8/2, MS2.5/1, Error ellipse: s-maj=112.6km s-min=21.2km az=170.0

ISC 26 05:47:23.3 ± 0.8, 8.38N:0.03E:82.82W:0.02, h31km, 5km, n155, φ196/184, mb3.6/3, 43C-34D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ, AZ, Phase ID, Time, Res. Lists stations like LESP3, LPPC, LMNES, NELY, MCANO, DVID, CSTBL, PEDE3, LOCO3, MLIR3, FITO, CLLRA, LOMA3, BRU2, RSRNO, DRAD, EDAD, PTRAR, SCLRA, WITO, BC3P, CHIR3, BOTLY, BOSF3, ALCO, PSOM3, POTRERO, RBAL3, PAMP, DRKO, RMDIO.

Main table with columns: EDPE, KRSC, UCR, UPA, RSNC, CATAC, IDC, ISC, Code, Station Name, Δ, AZ, Phase ID, Time, Res. Lists stations like Pejibaye, Kakin, Manzanera, Bastingos, Bering, etc.

KRSC 26 05:53:30.1 ± 1.2, 56°16N:164°63E, h42km, 18km, M14.6, IDC 26 05:53:31.0 ± 0.6, 56°33N:164°61E, h0km, mb4.0/21, mbmp4.0/23, ML3.4/2, MS3.8/1, Error ellipse: s-maj=18.4km s-min=12.3km az=150.0

NEIC 26 05:53:33.8 ± 2.1, 56°2N:0.1°E:164°6E:0.1, h10km, 1km, mb4.5/140, Error ellipse: s-maj=22.0km s-min=12.6km az=169.0

MOS 26 05:53:33.4 ± 1.4, 56°15N:164°61E, h42km, mb4.6/9, Error ellipse: s-maj=9.3km s-min=6.5km az=69.2

ISC 26 05:53:33.0 ± 0.4, 56°17N:0.04E:164°54E:0.03, h16km, n430, φ133/382, mb4.9/2, 1C-1D, Komandorsky Islands region

Table with columns: KBTR, KRUB, BERING, SEMKAROK, BZRGR, PETK, etc. Lists stations like Krutoberegovo, Bering, Semkarok, BZRGR, etc.

26d 5h

Table with columns: ID, Name, Date, Time, Status, Location, and various numerical values. Includes entries like H18K Honhosha River, P16K Nushagak River, etc.

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Table with columns: ID, Name, Date, Time, Status, Location, and various numerical values. Includes entries like H22K Ishalitha Cre, B22K Teshekpuk Lake, etc.

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Table with columns: ID, Name, Date, Time, Status, Location, and various numerical values. Includes entries like PRP Porcupine Dome, K24K Donnelly Dome, etc.

Table with columns: ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like H31M Peel River, P29M Windy Craggy, P30M Million Dollar, etc.

Table with columns: ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like NB2 NORSAR Subarra, NOA NORSAR Array B, CMAR Chiang Mai Arr, etc.

Table with columns: ID, Name, Frequency, Power, Mode, and other technical details. Includes stations like RBALA Bur, PAMP Palmor Norte, RMDIO Remedios, Chir, etc.

26d 6h

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like BRU2 Volcan, FITO Golfito, PTAR3 Potrerillos Ar, etc.

UCR 26 06:15:46.7.1.8.33N-82.88W, h15km, 6km, MW3.9
CATAc 26 06:15:46.0.0.8.33N-82.88W, h38km, 17km, M3.9/9, MLV3.9/9, Error ellipse: s-maj=16.2km s-min=13.1km

UPA 26 06:15:47.0.0.4.8.44N-82.83W, h35km, 2km, MW4.0
ISC 26 06:15:47.3.1.8.838N.0.05-82.84W.0.03, h36km, 1km, n57, c1545/64, 3D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, CDITO Canoas, etc.

UCR 26 06:16:18.0.0.5.8.28N-82.85W, h25km, 4km, MW3.9
UPA 26 06:16:19.0.0.8.41N-82.80W, h23km, 5km, MW3.7
ISC 26 06:16:15.2.6.8.2N.0.1-82.85W.0.04, h10km, 14km, n22, c6562/31, 4C-5D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, PEDE3 Pedregal, Chir, EDAD David, etc.

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Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like BRU2 Volcan, BRU2 Volcan, SCLRA Santa Clara, W, etc.

UCR 26 06:19:58.3.1.0.8.33N-82.86W, h19km, 3km, MW4.3
Fault plane solution: NP1-φ=334.07000°, δ40.26000°, λ82.25000°

CATAC 26 06:19:58.5.1.2.8.19N.9.37W.1, h3km, 4km, M4.1/13, MLV4.1/13, Error ellipse: s-maj=19.0km s-min=6.8km

UPA 26 06:19:58.5.1.1.8.40N-82.81W, h23km, 4km, MW4.4
Fault plane solution: NP1-φ=136.00000°, δ38.00000°, λ100.00000°

ISC 26 06:19:58.4.0.9.8.37N.0.03-82.87W.0.02, h28km, 5km, n93, c0889/119, 10C-36D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, LPPC Paso Canoas, etc.

UCR 26 06:25:15.1.0.7.8.33N-82.83W, h32km, 3km, MW3.5
UPA 26 06:25:16.0.1.0.8.39N-82.81W, h26km, 5km, MW2.7
ISC 26 06:25:15.1.2.8.36N.0.05-82.84W.0.04, h32km, 7km, n23, c0838/36, 1C-8D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, LMNES Limones, etc.

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Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LMNES Limones, NELY Ciudad Neily, etc.

UCR 26 06:25:15.1.0.7.8.33N-82.83W, h32km, 3km, MW3.5
UPA 26 06:25:16.0.1.0.8.39N-82.81W, h26km, 5km, MW2.7
ISC 26 06:25:15.1.2.8.36N.0.05-82.84W.0.04, h32km, 7km, n23, c0838/36, 1C-8D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LESP3 La Esperanza, LMNES Limones, etc.

UCR 26 06:25:43.0.8.8.36N-82.86W, h25km, 5km, MW3.8
UPA 26 06:25:44.3.0.7.8.38N-82.86W, h24km, 3km, MW2.9
Fault plane solution: NP1-φ=0.00000°, δ34.00000°, λ78.00000°

ISC 26 06:25:43.9.1.1.8.38N.0.04-82.87W.0.03, h28km, 7km, n34, c052/50, 2C-15D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ° AZ', Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LMNES Limones, NELY Ciudad Neily, etc.

KNKTU Kakinté 1.15 66 eP Pn 06 26 03.5 -0.7

UCR 26 06:28:00.3±1.3, 8.33N-82.86W, h22km, 2km, MW3.7
UPA 26 06:28:01.0±1.1, 8.42N-82.87W, h26km, 3km, MW3.8

ISC 26 06:28:00.6±0.9, 8.36N-0.03:82.88W±0.02, h30km, 6km, n98, c±19/127, 19-132D, Panama-Costa Rica border

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like LESP3, LMNES, NELY, etc.

Table with columns: LGNR, KLY, BZGR, etc. Lists stations like Loginova, Klyuchi, Bezymyanni-Gr, etc.

CATAC 26 06:35:03.9±0.6, 8.14N-4.8°3'W, h1km, M3.6/3, MLV3.6/13, Error ellipse: s-maj=7.8km s-min=4.9km

UPA 26 06:35:06.4±0.8, 8.39N-82.83W, h32km, 3km, MW3.2, Fault plane solution: N1°19.18.00000°, 87.0.00000°, 162.00000°

ISC 26 06:35:06.4±1.0, 8.39N-0.04:82.84W±0.04, h32km, 7km, n40, c±77/48, 4C-14D, Panama-Costa Rica border

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like LESP3, CDITO, LMNES, etc.

AEIC 26 06:35:13.6±1.1, 5.4°1'N, 0.1°165'W, 0.1, h70km, 6km, Error ellipse: s-maj=22.4km s-min=4.0km az=156.0

NEIC 26 06:35:13.5±0.4, 5.4°1'N, 0.2°165'W, 0.2, h76km, 10km, ML3.0/12, ML3.0(AEIC), Error ellipse: s-maj=31.8km s-min=4.1km az=154.0, Fox Islands

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like AKUT, AHB, WESE, etc.

ISC 26 06:37:20.0±1.0, 8.37N-0.04:82.87W±0.03, h33km, 6km, n69, c±68/86, 2C-15D, Panama-Costa Rica border

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like LESP3, LMNES, NELY, etc.

KRSC 26 06:42:09.1±1.3, 5.5°9'N, 164°12'E, h9km, 20km, M13.5, IDC 26 06:42:12.0±2.0, 0.56°15'N, 165°23'E, h0km, mb3.3/3, mbmp3.3/3, Error ellipse: s-maj=604.6km s-min=131.7km az=102.0

ISC 26 06:42:07.9±1.8, 5.6°08'N, 0.06:164.23E±0.05, h2km, 13km, n25, c±176/32, mb3.6/3, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like KBTR, KBR, KBG, etc.

UCR 26 06:43:59.2±0.9, 8.36N-82.88W, h30km, 1km, MW3.7, UPA 26 06:43:59.0±0.6, 8.39N-82.87W, h39km, 3km, MW3.6

ISC 26 06:43:59.6±1.1, 8.39N-0.04:82.88W±0.03, h33km, 7km, n73, c±68/90, 2C-9D, Panama-Costa Rica border

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like LESP3, LMNES, NELY, etc.





Table with columns: Station Name, Location, Time, Magnitude, Quality, etc. Includes stations like ZALV Zalesovo Beam, SPITS Spitsbergen Ar, SPB2 Gaotai, etc.

Table with columns: Station Name, Location, Time, Magnitude, Quality, etc. Includes stations like KBZ Khabaz, GERES GERES Array B, ASAR Alice Springs, etc.

Table with columns: Station Name, Location, Time, Magnitude, Quality, etc. Includes stations like GRB Gharib, JMOS Jabal al Moall, EIL Elat, etc.

ASRS 26 07:04:33.0, 1.4, 54.21N; 87.11E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021

IDC 26 07:04:23.4, 3.0, 54.24N; 87.35E, h0km, mbtmp3.0/2, ML2.7/2, Error ellipse: s-maj=25.9km s-min=17.3km

az=58.0, Southwestern Siberia

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV, etc.

KRSC 26 07:06:34.1, 1.1, 55.94N; 164.11E, h10km, 26km, M13.7, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBTR, KBG Krutoberegovo, etc.

CATAC 26 07:08:46.7, 0.8, 8.5N; 8.3W, h17km, 4km, M3.4/7, MLV3.4/7, Error ellipse: s-maj=13.1km s-min=10.8km

UPA 26 07:08:48.4, 1.2, 8.45N; 82.77W, h14km, 5km, MW3.0, Fault plane solution: N P1: 10.00000, 868.00000, 1-82.00000

ISC 26 07:08:47.2, 1.0, 8.39N; 0.05; 82.83W, 0.04, h29km, 5km, n26, c0.986/37.3C, 7D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LESP3 La Esperanza, LEPS3, CDITO Canoas, etc.

HLW 26 07:09:48.6, 27.65N; 34.29E, h16km, 5km, M13.0, Gll 26 07:09:49.2, 0.0, 27.34N; 0.06; 34.52E; 0.02; h1km, Mw3.6, confirmed

SGS 26 07:09:50.3, 27.78N; 34.41E, h11km, M12.4, ISC 26 07:09:48.3, 1.0, 27.65N; 0.04; 34.36E; 0.03; h12km, n55, c1542/56, Red Sea

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like TR1 Tor 1, RSHS, HHRG Al Ghardaqah, etc.

NNC 26 07:09:51.0, 5.0, 32.32N; 79.46E, h0km, mb3.4, mpv3.2, 18C-7D, Error ellipse: s-maj=12.9km s-min=3.0km

az=39.0, Suspected Mining explosion, Eastern Kazakhstan

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KUR14 Kurchatov Arra, KUR14, KUR6 Kurchatov Arra, etc.

KRSC 26 07:10:05.9, 1.2, 55.94N; 164.05E, h7km, 25km, M13.6, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBTR, KBG Krutoberegovo, etc.

IDC 26 07:10:29.0, 0.7, 7.16S; 123.29E, h608km, 9km, mb3.6/19, mbtmp4.6/25, Error ellipse: s-maj=14.6km s-min=7.3km

NEIC 26 07:10:29.6, 1.5, 7.20S; 0.09; 123.23E; 0.10, h601km, 8km, mb4.3/21, Error ellipse: s-maj=17.0km s-min=8.9km

az=47.0, DJA 26 07:10:29.1, 0.2, 7.52S; 121.3E, h592km, 3km, M4.7/25, mb4.7/25, mb5.2/18, MLV4.9/24, Mw(mb)4.6/18

ISC 26 07:10:29.0, 0.3, 7.24S; 0.05; 123.25E; 0.06, h600km, n151, c1912/157, mb4.2/33, 1D, Banda Sea

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like MMRI Maumere, MMRI, MMRI, etc.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like BBSI, EDFF, SOEI, etc.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like USRK, KLR, SONM, HEH, CASY, etc.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like HRFI, KRMI, KRMI, etc.

UPA 26 07:20:42.8:0.9, 8:36N-82:79W, h27km, 5km, MW3.0, Fault plane solution: N1P0s110.00000°, δ68.00000°, λ58.00000°.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like CDITO, CDITO, LMNES, etc.

GCG 26 07:21:49.2:1.5, 14:19'N-93:05'W, h37km, 9km, MD4.5, ML3.5.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like THIG, THIG, THIG, etc.

SOME 26 07:10:56.6, 48:28N-73:87E, h15km, Central Kazakhstan

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like BRZS, BRZS, BTLS, etc.

HLW 26 07:11:11.4, 27:67N-34:10E, h11km, 5km, Md2.6, Ml2.8.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like RSHS, RSHS, HHRG, etc.

MEX 26 07:21:51.1:0.7, 14:34'N-93:02'W, h8km, 42km, MD4.2.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like SMCA, SMCA, PATR, etc.

ISC 26 07:21:49.9:2.2, 14:25'N-07:92.97'W, 0.03, h31km, 17km, n30, e245/53, Near coast of Chiapas region.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like STGO, STGO, SOKI, etc.

UPA 26 07:23:06.6:0.6, 8:44N-82:77W, h18km, 1km, MW2.4, 3C-2D, Panama-Costa Rica border region.

Table with columns: Code, Station Name, Az, AzZ, Op, Phase ID, Time, Res, ISC. Includes stations like LESP3, LESP3, DVD, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like MLIR3, BRU2, PTAR3, LOMA3, etc.

UPA 26 07:25:08.3-1.1, 8.47N-82.75W, h10km, 7km, MW2.6, 1C-3D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LESP3, DVD, BRU2, LOMA3, etc.

UCR 26 07:25:26.5-0.9, 8.40N-82.89W, h28km, 2km, MW3.5, UPA 26 07:25:27.7-1.4, 8.43N-82.80W, h14km, 3km, MW3.3, ISC 26 07:25:27.0-0.9, 8.44N-0.03-82.83W, 0.02, h17km, 6km, n4, 192/62, 2C-7D, Panama-Costa Rica border region

Large table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LESP3, NELY, MCANO, LMNES, etc.

SSNC 26 07:28:20.3-3.6, 21°13'N-79°05'W, h20km, 99gkm, Cuba region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LMGC, YAR, CHIV, etc.

IDC 26 07:29:41.7-1.5, 29°50'S-71°67'W, h0km, mb3.9/3, mbmp3.7/6, ML3.6/3, Error ellipse: s-maj=59.0km, s-min=25.3km, az=106.0

SJA 26 07:29:43.7-0.7, 29°42'S-71°43'W, h5km, 3km, ML3.9, MW3.5

GUC 26 07:29:47.6-0.7, 29°43'S-71°29'W, h48km, 3km, ML4.2

NEIC 26 07:29:48.5-1.0, 29°44'S-0.04°71'4W, 0.1, h33km, 10km, mb4.4/2, Mw4.2(GUC), Error ellipse: s-maj=17.3km, s-min=5.8km, az=99.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CO05, LCO, GO04, etc.

Main table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like AC04, CO06, CO01, etc.

ML2.4/2, Error ellipse: s-maj=30.2km s-min=20.1km, az=38.0

ASRS 26 07:30:17.0-1.0, 54°16'N-87°19'E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

IDC 26 07:34:20.0-8.3, 36°26'N-70°95'E, h117km, 71km, mb3.4/4, mbmp3.6/7, Error ellipse: s-maj=61.1km s-min=29.3km, az=35.0

NMC 26 07:34:27.4-2.0, 37°01'N-70°92'E, h0km, mb3.8, mpv3.5, Error ellipse: s-maj=17.4km s-min=14.5km, az=48.0

ISC 26 07:34:28.4-1.5, 36.7N-0.1-71.0E, 0.1, h18km, n10, 1969/13, mb3.3/3, 2C-3D, Hindu Kush region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KK31, AAK, TKM2, etc.

JMA 26 07:38:56.0-0.1, 23°2'N-0°5'12"E, h27km, 1km, MV3.3/14, TAIWAN REGION

TAP 26 07:38:56.8, 23°22'N-121°40'E, h22km, ML3.7, B

ISC 26 07:38:56.5-0.9, 23°19'N-102°12'148"E, 0.02, h27km, 4km, n128, 089/99/166, 6C-21D, Taiwan

Large table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CHKH, CHKB, CHCN, etc.



s-maj=339.8km s-min=52.5km az=137.0, Baltic States-Belarus-Northwestern Russia  
 Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 I43RU DUBNA INFRASON 2.00 318 I Op ISC 08 06 50.0  
 1.1nm,0.8s,baz=136,slow=16,SNR=1.8  
 I37NO I37NO 16.84 334 I I 09 43 50.0  
 baz=134,slow=323,SNR=0.6  
 I26DE FREYUNG INFRAS17 1259 I I 09 41 00.0  
 baz=59,slow=317,SNR=1.1

KRSC 26 07:58:23.7:0.8, 55°35'N-164°24'E, h11km, 12km, MI3.6, Komandorsky Islands region  
 Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 KBTR Krutoberegovo 0.84 289 Op ISC 07 58 39.1 -0.7  
 KBTFR Krutoberegovo 0.91 290 Op Sg 07 58 50.2 +0.6  
 KBG Krutoberegovo 0.91 290 Op Sg 07 58 40.2 +1.1  
 KKB Krutoberegovo 0.91 290 Op Sg 07 58 54.1 +0.4  
 BKI Bering 1.23 126 Op Sg 07 58 46.6 -0.3  
 BKI Bering 1.23 126 Op Sg 07 59 03.7 +0.1  
 MKZ Mys Kozlova 2.00 227 Op P 07 58 59.1 -1.0  
 KLY Klyuchi 2.04 282 Op P 07 58 56.8 -1.2  
 KLY Klyuchi 2.04 282 Op Sg 07 59 22.4 -1.0  
 KRSR Krestovskiy 2.08 279 Op P 07 59 00.3 -1.1  
 BZWR Bezymyanni-We 2.10 272 Op P 07 59 00.9 -1.1  
 KIRR Kirishev 2.19 272 Op P 07 59 02.0 -1.4  
 KP Kopyto 2.26 272 Op P 07 59 03.6 -1.1  
 KMNR Kamenistaya 4.18 231 Op P 07 59 06.8 -1.0  
 KOZ Kozzyrevsk 2.45 274 Op P 07 59 07.4 +2.2  
 SRDR Sredinnyy 2.56 280 Op P 07 59 29.5 +3.1  
 SDDL Sedlovina 4.11 232 Op P 07 59 30.4 +3.2  
 SMAR Somma 4.16 234 Op P 07 59 30.8 +3.6  
 KRY Arik 4.16 234 Op P 07 59 30.9 +3.3  
 UGLR Ugluyava 0.71 233 Op P 07 59 31.9 +4.1  
 KOK Koryaka 4.21 233 Op P 07 59 42.4 +4.0  
 MTRV Mutnovka 4.97 228 Op P 07 59 45.0 +4.1  
 ASAK Asacha 5.16 229 Op P 07 59 45.0 +4.1

IDC 26 08:00:22.9:0.2, 74S: 138.68E, h0km, mb3.9/6, mbmp3.9/6, ML4.0/2, Error ellipse: s-maj=21.8km s-min=15.0km az=165.0

ISC 26 08:00:27.8:0.8, 2.8S: 138.8E, h0km, mb3.5/5, mbmp3.4/3, ML2.3/1, Error ellipse: s-maj=209.9km s-min=32.5km az=161.0

Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 JAY Jayapura 1.96 81 Pn 08 00 58.5 -0.1  
 7.7nm,0.3s,baz=245,slow=6.6,SNR=27  
 JAY Jayapura 1.96 81 Pn 08 01 28.8  
 15nm,0.3s,baz=84,slow=21,SNR=5.3  
 40m,0.3s  
 BATI Baumata 16.70 243 Pn 08 04 18.2 -0.9  
 5.4nm,0.3s,baz=333,slow=2.3,SNR=4.2  
 WRA Warrungama Arr 17.55 194 Pn 08 04 29.2 -0.7  
 0.9nm,0.3s,baz=17,slow=12,SNR=30  
 2.8nm,0.5s  
 FITZ Fitzroy Crossi 19.90 219 Pn 08 04 56.7 +0.3  
 0.2nm,0.3s,baz=56,slow=15,SNR=2.2  
 3.7nm,0.8s  
 ASAR Alice Springs 21.25 192 P 08 05 11.8 +0.8  
 4.2nm,0.3s,baz=20,slow=10,SNR=21  
 4.2nm,0.3s  
 MKAR Makanchi Arr 69.32 322 P 08 11 36.2 +0.8  
 0.5nm,0.8s,baz=110,slow=7.5,SNR=4.0  
 0.5nm,0.8s  
 KURBB Kurchatov Arr 73.86 325 P 08 11 59.3 +0.4  
 1.1nm,1.0s,baz=110,slow=5.4,SNR=1.7  
 1.1nm,1.0s  
 BVAR Borovoye Array 79.44 325 P 08 12 30.7 +0.2  
 1.9nm,0.7s,baz=123,slow=5.5,SNR=4.3  
 0.9nm,0.7s  
 ILAR Eielson Array 85.91 24 P 08 13 02.9 -1.0  
 0.5nm,0.7s,baz=260,slow=4.8,SNR=6.1  
 0.5nm,0.7s  
 QSPA South Pole Qui 87.12 180 P 08 13 10.4 +0.5  
 1.2nm,0.7s,baz=273,slow=0.9,SNR=7.3  
 1.2nm,0.7s

NOU 26 08:00:54.9:25.32S:177.16E, h267km, mb4.2/13, South of Fiji Islands

IDC 26 08:00:58.1:2.3, 25°35'S:179°81'E, h484km, 25km, mb3.3/5, mbmp4.2/7, Error ellipse: s-maj=30.6km s-min=18.3km az=145.0

NEIC 26 08:00:58.8:1.5, 25°35'S:179°9E:0.2, h48km, 9km, mb4.2/14, Error ellipse: s-maj=21.4km s-min=6.1km az=111.0

ISC 26 08:00:58.9:0.6, 25°38'S:179°82'E:0.10, h493km, n91, r=175/106, mb4.0/13, South of Fiji Islands

Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 RAO Raoul Island 4.35 153 P 08 02 18.7 -1.0  
 GLKZ Green Lake 4.36 153 P 08 02 22.9 +3.1  
 MSVF Moutaka 7.22 10 P 08 03 27.9 +2.2  
 LKBA Lakemba 7.77 347 P 08 03 36.4 +1.1  
 Nonsavu 7.77 347 P 08 02 51.6 +1.5  
 MSVF Nonsavu 7.77 347 P 08 02 51.4 -1.7  
 16nm,0.4s,baz=252,slow=23,SNR=11  
 TAVE Taveuni 8.63 2 P 08 03 01.7 -0.2  
 DGTI Dogotuki 9.03 359 P 08 03 05.4 -0.7  
 OUZ Omahuta 11.19 207 P 08 03 33.1 +4.4  
 WCZ Waipu Caves 11.53 203 P 08 03 36.5 +4.2  
 PINNC Pines Island, 11.64 281 P 08 03 34.6 +0.9  
 KUZ Kuaotunu 11.86 196 P 08 03 38.8 +2.9  
 WIAZ Waiheke Island 12.07 198 P 08 03 41.5 +3.5  
 Matakaoa Point 12.23 186 P 08 03 48.4 +1.2  
 MXZ Matakaoa Point 12.22 186 P 08 03 41.1 +1.5  
 MXZ Matakaoa Point 12.22 186 P 08 03 40.1 +0.5  
 MKAZ Moumakai 12.35 198 P 08 03 40.4 +2.9  
 WMGZ Waiomatatini S 12.46 185 P 08 03 43.8 +1.5  
 HAZ Te Kaha 12.46 186 P 08 03 42.4 +0.2  
 PKGZ Pakihoro 12.46 186 P 08 03 59.6 +0.7  
 PKGZ Pakihoro 12.46 186 P 08 05 57.4 -1.1  
 RUGZ Raukumara Rang 12.68 188 P 08 03 45.1 +0.4  
 RUGZ Raukumara Rang 12.68 188 P 08 06 20.2 +0.6  
 PUZ Puketiti 12.73 186 P 08 03 44.8 -0.3  
 PUZ Puketiti 12.73 186 P 08 06 00.3 -1.8  
 TOZ Taharoa Road 12.85 196 P 08 03 48.2 +0.0  
 TWGZ Tauwhareparea 12.86 187 P 08 03 46.2 -0.3  
 TWGZ Tauwhareparea 12.86 187 P 08 06 02.7 -2.0  
 KMRZ Kaimai 12.86 194 P 08 03 49.2 +2.6  
 URZ Urewera 13.05 189 P 08 03 46.6 -1.8  
 7.1nm,0.4s,baz=254,slow=4.1,SNR=15  
 URZ Urewera 13.05 189 P 08 06 08.7 +0.4  
 URZ Urewera 13.05 189 P 08 03 49.6 +1.2  
 URZ Urewera 13.05 189 P 08 03 47.5 -1.0  
 MWZ Matawai 13.07 188 P 08 06 06.7 -2.0  
 MWZ Matawai 13.07 188 P 08 06 06.7 -2.0  
 TKGZ Te Karaka 13.13 187 P 08 03 50.3 +0.9  
 TKGZ Te Karaka 13.13 187 P 08 06 07.2 -2.7  
 CNGZ Carnagh Statio 13.14 186 P 08 03 51.9 +2.4  
 RAGZ Rawiri 13.24 188 P 08 03 50.7 +0.1  
 RAGZ Rawiri 13.24 188 P 08 06 09.2 -2.5  
 MUGZ Murupara 13.32 190 P 08 03 51.4 +0.1  
 RIGZ Rimuhau 13.40 187 P 08 03 55.0 +2.8  
 TLZ Tolley Road 13.42 195 P 08 03 54.6 +2.2  
 RTZ Ruatuhua 13.42 190 P 08 03 53.8 +1.4  
 RTZ Ruatuhua 13.42 190 P 08 03 59.6 +0.7  
 RTZ Ruatuhua 13.42 190 P 08 06 14.5 -1.1  
 RAHZ Aarahi 13.70 189 P 08 03 56.0 +0.7  
 RAHZ Aarahi 13.70 189 P 08 06 18.8 -2.1  
 HIZ Haurangi 13.76 197 P 08 03 54.4 -1.6  
 HIZ Haurangi 13.76 197 P 08 03 59.4 +3.5  
 BKZ Black Stump Fm 14.03 191 P 08 03 59.1 +1.8  
 BKZ Black Stump Fm 14.03 191 P 08 03 58.5 -0.4  
 BKZ Black Stump Fm 14.03 191 P 08 06 27.1 -0.4  
 TSZ Takapari Road 14.99 192 P 08 04 07.6 -1.4  
 TSZ Takapari Road 14.99 192 P 08 06 43.0 -2.9  
 BFZ Birch Farm 15.55 190 P 08 04 13.9 -1.8  
 BFZ Birch Farm 15.55 190 P 08 06 53.0 -3.5  
 MRZ Mangatainoka R 16.55 192 P 08 04 13.7 -2.1  
 MRZ Mangatainoka R 16.55 192 P 08 06 54.3 -4.1  
 SNZO South Karori 16.54 194 P 08 04 25.6 +1.4  
 QRZ Quartz Range 16.56 200 P 08 04 25.1 -0.4  
 QRZ Quartz Range 16.56 200 P 08 06 25.6 +0.1  
 TKNZ Takaka Hill 16.63 198 P 08 04 26.3 +0.2

NNZ Nelson 16.68 197 P 08 04 25.7 -1.0  
 NNZ Nelson 16.68 197 P 08 07 14.1 -3.3  
 TUWZ Tuamarina 16.74 196 P 08 04 27.7 +0.5  
 THZ Topohue 17.32 198 P 08 04 32.5 +0.6  
 THZ Topohue 17.32 198 P 08 04 24.4 -4.0  
 DNEN Deniston Nort 17.63 200 P 08 04 36.6 -0.6  
 KHZ Kahutara 17.77 195 P 08 04 37.8 +0.5  
 KHZ Kahutara 17.77 195 P 08 04 36.6 -0.6  
 KHZ Kahutara 17.77 195 P 08 07 31.6 -4.1  
 GZV Greta Valley S 18.41 196 P 08 04 42.1 -1.1  
 LTZ Lake Taylor 18.44 198 P 08 04 42.6 -0.5  
 RPZ Rate Peak 18.63 200 P 08 04 42.6 -0.5  
 INZ Inchbonie 18.63 200 P 08 04 45.0 -0.2  
 OXZ Oxford 19.01 198 P 08 04 48.1 -0.6  
 WVZ Waitaha Valley 19.16 201 P 08 04 49.7 -0.3  
 MOZ McQueen's Vall 19.20 196 P 08 04 49.5 -0.8  
 RPZ Rate Peak 19.65 199 P 08 04 57.3 +2.8  
 JCC Jackson Bay 20.71 203 P 08 04 57.1 +0.6  
 JCY Jackson Bay 20.71 203 P 08 05 06.4 +2.2  
 EIDS Eidsvold 25.96 264 P 08 05 05.8 -0.5  
 EIDS Eidsvold 25.96 264 P 08 05 58.2

CTAO Charters Tower 31.35 273 P 08 06 38.5 0.0  
 CTAO Charters Tower 31.35 273 P 08 06 40.0  
 STKA Stephens Creek 34.05 250 P 08 07 02.3 +1.0  
 STKA Stephens Creek 34.05 250 P 08 07 01.9 +0.6  
 INKA Inaninka 34.94 257 P 08 07 07.6 -1.2  
 COEN Coen 36.22 281 P 08 07 34.2 +0.6  
 COEN Coen 36.22 281 P 08 07 34.2

WB0 Warrungama Arr 42.17 268 P 08 08 06.8 -0.9  
 WB0 Warrungama Arr 42.17 268 P 08 08 32.2  
 WRA Warrungama Arr 42.17 268 P 08 08 07.2 -0.6  
 WRA Warrungama Arr 42.17 268 P 08 08 07.1 -0.6  
 GSPA South Pole Qui 64.71 180 P 08 10 48.7 +1.0  
 NVAR Mina Aray Bea 65.92 144 P 08 12 47.2 +0.8  
 NVAR Mina Aray Bea 65.92 144 P 08 12 47.2 +0.8  
 PINE Pine Mountain 87.64 39 P 08 12 54.7 +0.3  
 PINE Pine Mountain 87.64 39 P 08 12 56.6  
 IO7A Ize 88.63 39 P 08 12 59.8 +0.8  
 IO7A Ize 88.63 39 P 08 13 00.5  
 JOBA Circle Bar 88.78 40 P 08 13 00.6 +0.9  
 JOBA Circle Bar 88.78 40 P 08 13 02.5  
 TXAR Lajitas Array 91.35 58 P 08 13 13.2 +1.4  
 TXAR Lajitas Array 91.35 58 P 08 13 13.2 +1.4  
 FINES FINES Array B 139.78 341 PKHP PKPpre 08 19 21.6  
 FINES FINES Array B 139.78 341 PKHP PKPpdf 08 19 28.2 -1.4  
 NB2 NORSAR Subarray 143.51 351 PKP PKPab 08 19 34.0 -0.7  
 NOA NORSAR Array B 143.51 351 PKP PKPab 08 19 34.0 -0.8  
 HFS Hagfors 143.95 348 PKP PKPbc 08 19 35.2 -1.1  
 HFS Hagfors 143.95 348 PKP PKPbc 08 19 35.2 -1.1  
 MMAI Mount Meron Ar 148.13 292 PKPbc PKPbc 08 19 49.6 +0.5  
 EKA Eskdalemuir Ar 149.95 3 PKPbc PKPbc 08 19 51.6 -1.2  
 BUR08 Bucovina Ar. S 150.07 324 PKPpdf 08 19 45.2 -2.7

UCR 26 08:01:36.0:0.8, 8°35'N-82°87'W, h32km, 2km, MW3.7  
 UPA 26 08:01:37.4:1.0, 8°41'N-82°81'W, h19km, 4km, MWV3.4  
 Fault plane solution: NP1=133.00000°, 348.00000°, 173.00000°

ISC 26 08:01:36.5:1.0, 8°39'N:0°03'-82°85'W:0°03', h30km, 7km, n44, <053/64, 12C-7D, Panama-Costa Rica border region

Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 NELY Ciudad Neily 0.28 340 Op ISC 08 01 43.5 -0.2  
 NELY Ciudad Neily 0.28 340 Op Sg 08 01 49.6 -0.1  
 LMNES Limones 0.29 182 Op Sg 08 01 44.0 +0.1  
 LMNES Limones 0.29 182 Op Sg 08 01 50.5 +0.6  
 MCANO Manzana, Boque 0.33 56 Op Sg 08 01 44.5 +0.1  
 MCANO Manzana, Boque 0.33 56 Op Sg 08 01 44.7 +0.3  
 FITO Gofitio 0.38 30 Op Sg 08 01 50.2 -0.9  
 FITO Gofitio 0.38 30 Op Sg 08 01 50.2 -0.9  
 DVD David 0.40 83 Op Sg 08 01 45.4 +0.1  
 DVD David 0.40 83 Op Sg 08 01 51.9 +0.5  
 MLIR3 Monte Lirio, C 0.40 3 Op Sg 08 01 46.0 -0.3  
 MLIR3 Monte Lirio, C 0.40 3 Op Sg 08 01 52.3 +0.5  
 CSTBL De las Acacias 0.40 87 Op Sg 08 01 45.5 0.0  
 CSTBL De las Acacias 0.40 87 Op Sg 08 01 45.6 0.0  
 EDAD Gofitio 0.41 310 Op P 08 01 44.4 -1.2  
 PEDE3 Pedregal, Chir 0.42 90 Op P 08 01 45.6 -0.1  
 PEDE3 Pedregal, Chir 0.42 90 Op P 08 01 51.8 -0.2  
 CLLRA Cordillera, 0.42 33 Op Sg 08 01 46.1 +0.1  
 CLLRA Cordillera, 0.42 33 Op Sg 08 01 54.0 +0.5  
 LLOCA Loma Colorada, 0.43 87 Op P 08 01 45.7 -0.1  
 LLOCA Loma Colorada, 0.43 87 Op P 08 01 52.3 +0.3  
 RSRNO Rio Sereno 0.43 358 Op P 08 01 46.4 +0.2  
 BRU2 Volcan 0.43 21 Op Sg 08 01 54.1 +0.3  
 BRU2 Volcan 0.43 21 Op Sg 08 01 46.2 +0.1  
 BRU2 Volcan 0.43 21 Op Sg 08 01 53.8 +0.1  
 TBS2 San Vito 0.45 25 Op Sg 08 01 47.0 0.0  
 VITO San Vito 0.45 344 Op Sg 08 01 49.8 -0.1  
 VITO San Vito 0.45 344 Op Sg 08 01 54.6 +0.6  
 SCLRA Santa Clara, W 0.45 8 Op P 08 01 46.5 +0.3  
 SCLRA Santa Clara, W 0.45 8 Op P 08 01 46.8 +0.3  
 LOMA3 Las Lomas, Chi 0.45 85 Op P 08 01 45.8 -0.4  
 LOMA3 Las Lomas, Chi 0.45 85 Op P 08 01 53.0 +0.1  
 PTRAR Potrerillos Ar 0.46 49 Op Sg 08 01 52.7 -0.6  
 PTRAR Potrerillos Ar 0.46 49 Op Sg 08 01 52.7 -0.6  
 BC3P Paso Ancho 0.49 29 Op P 08 01 46.8 -0.2  
 BC3P Paso Ancho 0.49 29 Op P 08 01 54.4 +0.4  
 CHIR3 Chiriqui UPA, 0.51 89 Op P 08 01 46.9 -0.3  
 CHIR3 Chiriqui UPA, 0.51 89 Op P 08 01 54.2 -0.2  
 BOTLY Boquete Panama 0.53 46 Op P 08 01 47.4 -0.2  
 BOTLY Boquete Panama 0.53 46 Op P 08 01 56.0 -0.2  
 ALCO Alturas Coton, 0.56 1 Op Sg 08 01 47.6 -0.5  
 PSOM3 Paja de Sombre 0.60 60 Op Sg 08 01 48.1 -0.6  
 PSOM3 Paja de Sombre 0.60 60 Op Sg 08 01 56.3 -0.6  
 PD2P Potrero Grande 0.70 333 Op Sg 08 01 51.2 -0.8  
 PBVNO Pueblo Nuevo, 0.82 52 Op Pn 08 01 51.2 -0.8  
 RBALA Bur 0.84 55 Op Pn 08 01 51.8 -0.5  
 RBALA Bur 0.84 55 Op Pn 08 01 51.9 -0.4  
 RBALA Bur 0.84 55 Op Pn 08 02 03.7 0.0  
 BURE Buenos Aires 0.95 328 Op Pn 08 01 52.7 -0.7  
 RMDR Remedios, Chir 1.02 91 Op Pn 08 01 49.8 -0.1  
 EDPE Pejibaye, P 1.12 66 Op Pn 08 01 54.8 -0.4  
 KKNUT Kakinat 1.12 66 Op Pn 08 01 55.7 -0.5  
 KKNUT Kakinat 1.12 66 Op Pn 08 01 55.7 -0.5  
 KKNUT Kakinat 1.12 66 Op Pn 08 01 55.7 -0.5  
 KKNUT Kakinat 1.12 66 Op Pn 08 01 55.7 -0.5  
 KKNUT Kakinat 1.12 66 Op Pn 08 01 55.7 -0.5  
 BRIBI Bribri 1.23 1 Op Sg 08 02 10.6 -0.1  
 TURIB Turrialba 1.72 331 Op Pn 08 02 05.1 +0.6  
 ABEZ San Pablo 1.77 318 Op Pn 08 02 06.5 +1.2  
 ABRB Las Abras (San 1.82 332 Op Pn 08 02 07.2 +1.2  
 RVAL Villa Bonita 1.85 337 Op Pn 08 02 07.5 +1.2  
 CARLA Cariari 2.16 336 Op Pn 08 02 11.7 +1.3

IDC 26 08:03:53.6:6.0, 8°81'S: 110°71'E, h0km, mb4.1/5, mbmp4.1/5, Error ellipse: s-maj=150.1km s-min=89.6km az=151.0

DJA 26 08:04:02.1:0.6, 9°S:5°11'E, h10km, M4, 1/11, ML4, 1/11  
 ISC 26 08:03:59.7:1.3, 9°25'0.1:110°3E:0.1, h51km, n17, r=161/14, mb4.0/5, South of Java

Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 PCJ1 Pacitan 1.31 39 Op ISC 08 04 19.6 -2.1  
 UGM Wadigama 1.31 8 Pn 08 04 23.9 +1.2  
 WOJ1 Wonorejo, Jawa 1.49 23 Pn 08 04 23.7 -0.4  
 NGJ1 Ngawi 2.15 31 Pn 08 04 34.7 +1.6  
 SMRI Semarang 2.16 3 Pn 08 04 35.3 +2.0  
 SMRI Semarang 2.16 3 Pn 08 04 59.8 +0.9  
 CMJ1 Cimerak 2.36 307 Pn 08 04 41.0 +5.0  
 JAG1 Jajug, Banyuw 3.84 79 Pn 08 04 57.2 +0.9  
 ABJ1 Asem Bagus 4.10 70 Pn 08 05 02.3 +2.4  
 H08S2 Diego Garcia H 37.46 269 T 08 05 29.3  
 H08S2 Diego Garcia H 37.46 269 T 08 05 27.0  
 H08S1 Diego Garcia H 37.46 269 T 08 05 22.8  
 H08S1 Diego Garcia H 37.46 269 T 08 05 22.8  
 SONM Songino Array 56.91 357 P 08 13 38.7 -0.9  
 0.6nm,0.4s,baz=178,slow=7.8,SNR=12.9  
 0.6nm,0.4s  
 MKAR Makanchi Arr 61.12 338 P 08 14 07.7 -1.1  
 0.8nm,0.4s,baz=156,slow=7.6,SNR=11  
 BVAR Borovoye Array 70.72 336 P 08 15 09.8 -0.4  
 0.6nm,0.5s,baz=134,slow=8.5,SNR=3.9  
 0.6nm,0.5s  
 TIXI Tixi 81.63 6 P 08 16 10.4 -1.4  
 1.8nm,0.3s,baz=188,slow=2.1,SNR=6.6  
 1.8nm,0.3s  
 BRTR Keskin Arr B 85.77 311 P 08 16 35.7 +1.8  
 0.5nm,0.6s

KRSC 26 08:06:10.5:1.0, 56°00'N:164°16'E, h9km, 19km, MI3.7  
 IDC 26 08:06:11.1:1.8, 54°81'N:165°37'E, h0km, mb3.5/2, mbmp3.4/3, ML2.3/1, Error ellipse: s-maj=209.9km s-min=32.5km az=161.0

ISC 26 08:06:10.5:1.0, 56°00'N:164°24'E:0.10, h3km, 13km, n33, r=153/50, Komandorsky Islands region

Code Station Name Δ° AZ° Phase ID Time Res h m s ISC  
 KBTR Krutoberegovo 0.80 274 Op ISC 08 06 25.8 +0.6  
 KBTFR Krutoberegovo 0.86 277 Op Sg 08 06 36.8 -0.8  
 KBG Krutoberegovo 0.86 277 Op Sg 08 06 37.0 +0.5  
 KKB Krutoberegovo 0.86 277 Op Sg 08 06 35.3 -0.8  
 BKI Bering 1.17 134 Op Sg 08 06 35.0 -1.2  
 BKI Bering 1.17 134 Op Sg 08 06 39.4 +0.1  
 SMKR Semkarok 1.60 286 Op Sg 08 07 00.1 -0.4  
 BDR Baidaraya 1.73 285 Op Sg 08 07 03.9 -0.9  
 SRKR Sorokina 1.78 287 Op Sg 08 07 04.5 -0.3  
 ZLN Zelena 1.93 267 Op Pn 08 06 44.4 +0.5  
 BZGR Bezymyanni-Gr 2.00 265 Op Sg 08 06 45.3 +0.5  
 BZGR Bezymyanni-Gr 2.00 265 Op Sg 08 07 11.6 -0.8  
 KLY Klyuchi 2.01 276 Op Sg 08 07 43.7 -1.1  
 KLY Klyuchi 2.01 276 Op Sg 08 07 07.9 -2.5  
 KRSR Krestovskiy 2.05 273 Op Pn 08 06 45.8 +0.3  
 BZWR Bezymyanni-We 2.11 266 Op Pn 08 06 47.1 +0.8  
 BZMR Bezymyanni-We 2.12 265 Op Sg 08 06 47.3 +0.9  
 BZMR Bezymyanni-We 2.12 265 Op Sg 08 07 13.8 -2.0  
 MKZ Mys Kozlova 2.15 223 Op Sg 08 06 46.5 -0.2  
 MKZ Mys Kozlova 2.15 223 Op Sg 08 05 23.9 -1.1  
 KIRR Kirishev 2.20 266 Op Pn 08 06 48.1 +0.6  
 KPT Kopyto 2.26 267 Op Pn 08 06 49.6 +1.2  
 KMNR Kamenistaya 2.29 261 Op Pn 08 06 53.3 -1.7  
 KOZ Kozzyrevsk 2.45 269 Op Pn 08 06 52.5 +1.6  
 KOZ Kozzyrevsk 2.45 269 Op Pn 08 06 52.5 +1.6  
 SRDR Sredinnyy 2.53 275 Op Pn 08 06 53.3 +1.3  
 SRDR Sredinnyy 2.53 275 Op Pn 08 07 24.7 +1.3  
 KIL Karymskiy 3.44 234 Op Sg 08 07 06.2 +1.1  
 NLC Nalytchevo 4.13 226 Op Sg 08 08 02.0 -0.6  
 SDDL Sedlovina 4.24

Table with 4 columns: Station Name, Azimuth, Elevation, and other parameters. Includes stations like PNIG Pinotepa and FTIG Fresnillo de T.

CATAC 26 08:32:53.3:0.7, 17.13N:8.87W: h28km,6km, M3.4/21, MLV3.4/21, Error ellipse: s-maj=7.8km s-min=3.1km az=31.5 confirmed

SNET 26 08:32:53.5:1.1, 12.72N:8.52W, h20km,6km, ML3.4 GCG 26 08:32:54.5:2.7, 12.70N:8.55W, h61km:170km, MD4.0, ML3.2

ISC 26 08:32:52.6:1.5, 12.68N:0.06:88.48W:0.03, h23km±14km, n63, c0529/74, 3C-13D, Off coast of central America

Main station list table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res, and other parameters. Lists numerous stations across various regions.

CNRM 26 08:33:27.0, 36.04N:8.48W, h31km, ML3.7 MDD 26 08:33:28.9:0.5, 36.13N:8.51W, h23km,4km, mb, Lg3.8/70, Error ellipse: s-maj=4.0km s-min=2.3km az=52.0

SFS 26 08:33:30.4, 36.17N:8.45W, h30km, mb, 4.4/5, ML4.0/18, ML4.2/27, MLV3.9/27

IGIL 26 08:33:30.8, 36.16N:8.48W, h30km, ML3.2 INMG 26 08:33:31.1, 36.16N:8.51W, h33km,21km, ML3.1, Error ellipse: s-maj=3.1km s-min=1.9km az=62.0

ISC 26 08:33:28.3:1.2, 36.14N:0.04:8.42W:0.04, h35km, n152, c185/231, 3C-14D, West of Gibraltar

Continuation of the station list table, including stations like ALBU Albufeira, PABU Palau, and others.

Main station list table for the right side, including stations like MORF Aljezur, PVAQ Vaqueiros, and others.

Main station list table for the right side, including stations like PCAS Casmillo, Conde, and others.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries for JAY, SRPI, BAKI, WRA, ASAR, MKAR, KURBB, ILAR, QSPA.

JSO 26 08:57:18.3±0.8, 31°12'N, 172°3'55"E, h8km, M2.6/12, Md4.6/12, Mjma2.9/9, ML2.7/12, MLV2.6/12, MLV2.6/12, Gll 26 08:57:18.9±0.3, 31°17'N, 174°0'02.35:483E:0.001, h12km, Mjms2.6/5, confirmed.

ISC 26 08:57:18.8±0.8, 31°17'N, 174°02.35:49E:0.03, h15km, 5km, n58, c0549/72, Dead Sea region

Large table listing station names and codes (LISJ, NVZR, GHAJ, etc.) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

VKMS 26 09:00:06.0, 52°28'N, 135°41'E, h0km, M2.9, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

ISC 26 09:00:06.4±3.9, 52°16'N, 135°38'E, h0km, mbtmp3.6/2, ML2.8/3, Error ellipse: s-maj=44.1km s-min=18.1km z=113.0, Baltic States-Northwestern Russia

Table listing station names and codes (OBN, AKASG, FINES, I26DE, ARCES) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

IDC 26 09:00:14.3±2.0, 2°48'S, 138°37'E, h0km, mb3.4/2, mbtmp3.4/4, ML3.5/2, Error ellipse: s-maj=35.8km s-min=19.7km az=162.0

DJA 26 09:00:18.9±0.5, 3°S, 13°13'E, h10km, M3.3/5, ML3.3/5

ISC 26 09:00:18.3±1.0, 2.55°S, 11°38'E, h0km, h32km, nL, c0567/8, Irian Jaya

Table listing station names and codes (SMPI, GENI, JAY, I26DE, ARCES) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

Table for ILAR station with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries for Eielson Array.

SGS 26 09:01:51.5±0.3, 31°52'N, 175°04'E, h7km, M3.1, JSO 26 09:01:54.4±0.0, 31°17'N, 173°3'55"E, h8km, 1km, M3.3/19, M3.3/19, ML3.3/19, MLV3.3/19, MLV3.3/19, Gll 26 09:01:54.1±0.0, 31°17'N, 173°02.35:49E:0.007, h5km, Mjms3.1/15, confirmed

ISC 26 09:01:54.5±0.6, 31°17'N, 173°05'51E:0.03, h12km, 5km, n99, c0568/119, Dead Sea region

Table listing station names and codes (LISJ, NVZR, GHAJ, etc.) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

NEIC 26 09:16:23.1±1.2, 42°02'N, 102°11'49W:0.02, h4km, 7km, Error ellipse: s-maj=2.9km s-min=2.3km az=144.0

UOSS 26 09:16:23.2±0.9, 41°39'N, 102°11'47W:0.02, h1km, 2km, ML2.5/16, ML2.5/80(NEIC), Error ellipse: s-maj=2.8km s-min=2.4km az=154.0, Utah

Large table listing station names and codes (BMUT, BEI, HDU, RSUT, etc.) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

NEIC 26 09:12:33.7±0.8, 37°14'N, 103°104'22W:0.02, h5km, 1km, ML1.5/8, Error ellipse: s-maj=5.4km s-min=3.2km az=352.0, Colorado

Table listing station names and codes (T25A, SDCO, RTBA, ANMO) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

Table listing station names and codes (THIG, PATR, PAVE, etc.) with their respective Az, Az', Phase ID, Time, Res, and ISC values.

NEIC 26 09:16:23.1±1.2, 42°02'N, 102°11'49W:0.02, h4km, 7km, Error ellipse: s-maj=2.9km s-min=2.3km az=144.0

UOSS 26 09:16:23.2±0.9, 41°39'N, 102°11'47W:0.02, h1km, 2km, ML2.5/16, ML2.5/80(NEIC), Error ellipse: s-maj=2.8km s-min=2.4km az=154.0, Utah

Large table listing station names and codes (BMUT, BEI, HDU, RSUT, etc.) with their respective Az, Az', Phase ID, Time, Res, and ISC values.



26d 9h

2019 JUN

1692

G19K	Purcell Moun	71.38	18	P	P	09 32 55.0 +0.4
F21K	Alatina River	71.39	17	P	P	09 32 54.9 +0.1
F21K	Alatina River	71.39	17	P	P	09 32 55.2 +0.4
F22K	John River	71.45	16	P	P	09 32 55.6 +0.6
E23K	Chandalar	71.54	15	P	P	09 32 56.5 +0.8
H17K	Granite Moun	71.56	20	P	P	09 32 56.2 +0.5
E24K	Your Creek	71.75	14	P	P	09 32 57.4 +0.5
H18K	Honhosa River	71.82	20	P	P	09 32 57.1 -0.1
G21K	Allakaket	71.96	17	P	P	09 32 58.0 -0.1
H19K	Roundabout Mou	72.03	19	P	P	09 32 59.2 +0.7
D27M	Malcolm River	72.07	11	P	P	09 32 58.6 -0.2
G22K	Bettles	72.09	16	P	P	09 32 59.3 +0.5
COLD	Coldfoot	72.12	15	P	I Amb	09 33 00.2 +1.3
COLD	Coldfoot	72.12	15	P	I Amb	09 33 00.7
COLD	Coldfoot	72.12	15	P	P	09 32 59.6 +0.6
I17K	Unalakleet	72.14	21	P	P	09 32 59.7 +0.6
E25K	Arctic Village	72.28	13	P	P	09 33 00.3 +0.3
F24K	Squaw Lake	72.35	14	P	P	09 33 00.9 +0.5
K13K	Kusivik Mount	72.36	24	P	P	09 33 00.2 -0.2
H20K	Anotleneega Mo	72.46	18	P	P	09 33 01.8 +0.8
GCSA	Galena City Sc	72.53	19	P	P	09 33 01.6 +0.2
G23K	Bananza Creek	72.59	16	P	P	09 33 02.8 +1.0
J16K	Anvik River	72.62	22	P	P	09 33 02.3 +0.3
F25K	Christian Rive	72.72	14	P	P	09 33 03.1 +0.5
H21K	Melozitna River	72.83	17	P	P	09 33 04.4 +1.1
E28M	Bababage River	72.87	11	P	P	09 33 04.6 +1.2
F26K	Sheenjek River	72.91	13	P	P	09 33 04.4 +0.7
E27K	Coleen River	72.92	12	P	P	09 33 04.5 +0.8
M11K	Mekoryuk	72.95	26	P	P	09 33 04.9 +0.9
H22K	Ishlitalina Cre	72.97	17	P	P	09 33 05.3 +1.2
J17K	VABM Dome	72.98	21	P	P	09 33 04.9 +0.8
K15K	Wolf Creek Mou	73.09	23	P	P	09 33 05.8 +1.0
I20K	Naaghdeneel	73.12	18	P	P	09 33 05.9 +1.1
G24K	Hadweenzic Riv	73.14	15	P	P	09 33 05.8 +0.8
G24K	Hadweenzic Riv	73.14	15	P	P	09 33 06.1 +1.1
E29M	Blow River	73.31	11	P	I Amb	09 33 06.7 +0.7
E29M	Blow River	73.31	11	P	I Amb	09 33 07.7
E29M	Blow River	73.31	11	P	P	09 33 07.1 +1.1
G25K	Bearman Lake	73.36	14	P	P	09 33 07.2 +1.0
I21K	Tanana	73.42	17	P	P	09 33 07.4 +0.7
L14K	Kuka Creek	73.43	24	P	P	09 33 07.1 +0.4
H23K	Yukon River	73.44	16	P	I Amb	09 33 07.7 +0.9
H23K	Yukon River	73.44	16	P	I Amb	09 33 08.9
H23K	Yukon River	73.44	16	P	P	09 33 07.9 +1.1
J19K	Poorman	73.47	19	P	I Amb	09 33 07.4 +0.5
J19K	Poorman	73.47	19	P	I Amb	09 33 08.7
J19K	Poorman	73.47	19	P	P	09 33 08.3 +1.3
L15K	Ungalak Moun	73.56	23	P	P	09 33 08.5 +0.9
G26K	Porcupine River	73.64	13	P	P	09 33 09.1 +1.2
J20K	Nowinta River	73.71	19	P	I Amb	09 33 08.7 +0.3
J20K	Nowinta River	73.71	19	P	I Amb	09 33 10.1
J20K	Nowinta River	73.71	19	P	P	09 33 09.6 +1.3
F28M	Old Crow	73.72	12	P	P	09 33 09.0 +0.6
K17K	Iditarod	73.73	21	P	P	09 33 08.2 -0.3
H24K	Noodor Dome	73.79	15	P	P	09 33 09.6 +0.7
H24K	Noodor Dome	73.79	15	P	P	09 33 09.6 +0.7
M4Y	Manley	73.84	17	P	P	09 33 09.8 +0.6
H25L	Birch Creek	73.85	14	P	P	09 33 08.9 -0.2
INK	Inuvik	73.99	9	P	I Amb	09 33 10.3 +0.5
INK	Inuvik	73.99	9	P	I Amb	09 33 11.2
INK	Inuvik	73.99	9	P	P	09 33 10.3 +0.5
INK	Inuvik	73.99	9	P	pmax	09 33 10.7 +0.9
I23K	Minto, Yukon-K	74.06	16	P	P	09 33 11.3 +0.9
M14K	Bethel	74.11	24	P	P	09 33 11.4 +0.7
G27K	Doyon Strip	74.15	13	P	I Amb	09 33 12.2 +1.3
G27K	Doyon Strip	74.15	13	P	I Amb	09 33 13.0
G27K	Doyon Strip	74.15	13	P	P	09 33 12.0 +1.1
L16K	Owhat River	74.16	22	P	P	09 33 12.1 +1.1
F30M	Barrier River	74.34	10	P	P	09 33 13.0 +1.0
P08K	Saint George I	74.35	30	P	P	09 33 12.5 +0.3
K20K	Telida	74.39	19	P	P	09 33 13.3 +1.0
CHUM	Lake Minchumin	74.41	18	P	P	09 33 13.6 +1.2
BPAW	Bear Paw Mtn.	74.56	17	P	P	09 33 13.4 +0.1
PRP	Porcupine Dome	74.56	15	P	P	09 33 14.1 +0.6
M15K	Kasigluk River	74.56	23	P	P	09 33 13.6 +0.2
L18K	Granite Moun	74.59	21	P	P	09 33 13.4 0.0
NEA2	Nenana	74.59	16	P	I Amb	09 33 13.9 +0.5
NEA2	Nenana	74.59	16	P	I Amb	09 33 14.6
NEA2	Nenana	74.59	16	P	P	09 33 13.8 +0.3
COLA	College	74.63	16	P	P	09 33 14.1 +0.5
G29M	Pine Creek	74.66	11	P	P	09 33 14.4 +0.6
H27K	Steamboat Moun	74.69	13	P	P	09 33 14.8 +0.7
F31M	Tsigehtichic	74.78	9	P	P	09 33 15.0 +0.5
N14K	Kuskokwak Cree	74.82	24	P	P	09 33 14.1 -0.7
M16K	Timber Creek	74.85	22	P	P	09 33 15.4 +0.4
CAST	Castle Rocks	74.86	18	P	P	09 33 15.0 -0.1
G30M	Aoh Zrail Nji	74.87	10	P	P	09 33 15.2 +0.2
ILAR	Eielson Army	74.93	16	P	P	09 33 15.3 0.0
ILAR	Eielson Army	74.93	16	P	pP	09 34 08.6 +1.7

M17K	Holinta River	75.02	22	P	P	09 33 16.1 +0.2
L19K	White Mountain	75.14	20	P	P	09 33 17.1 +0.5
N15K	Kwethluk River	75.16	23	P	P	09 33 16.5 -0.3
L20K	Farwell, AK	75.16	20	P	P	09 33 17.3 +0.5
G31M	Satah River	75.20	10	P	P	09 33 17.1 +0.3
I26K	Coal Creek Min	75.22	14	P	P	09 33 17.4 +0.3
HDA	Harding Lake	75.23	16	P	P	09 33 17.1 0.0
H29M	Whitestone	75.24	12	P	P	09 33 17.6 +0.4
I27K	Kandik River	75.24	13	P	P	09 33 18.2 +0.9
PPLA	Purkeypile	75.26	19	P	P	09 33 18.1 +0.6
TRF	Thorofare Moun	75.27	18	P	P	09 33 18.6 +1.0
N16K	Nishliak Lake	75.34	23	P	P	09 33 18.8 +1.0
FITZ	Fitzroy Crossi	75.34	126	P	P	09 33 17.9 -0.4
MCK	McKinley	75.36	17	P	P	09 33 18.2 +0.3
EPYK	Edge Plains	75.36	11	P	P	09 33 17.9 +0.1
J25K	Salcha River	75.39	15	P	P	09 33 18.3 +0.2
M18K	Stony River	75.42	21	P	P	09 33 18.9 +0.7
O14K	Tigyuquavet M	75.47	25	P	P	09 33 19.4 +0.9
M19K	Big River Lodg	75.49	20	P	P	09 33 18.4 -0.3
RND	Reindeer	75.66	17	P	I Amb	09 33 19.3 -0.3
RND	Reindeer	75.66	17	P	I Amb	09 33 20.0
RND	Reindeer	75.66	17	P	pmax	09 33 19.3 -0.3
I28M	Miner Creek	75.68	13	P	P	09 33 20.2 +0.4
N17K	Nusagak Hills	75.78	22	P	P	09 33 21.0 +0.7
M20K	Styx River	75.85	20	P	P	09 33 21.1 +0.3
J26L	Joseph Creek	75.86	14	P	P	09 33 21.5 +0.7
O15K	Ungalikthiuk R	76.01	24	P	P	09 33 21.6 0.0
K24K	Donnelly Dome	76.01	16	P	P	09 33 21.6 0.0
K24K	Donnelly Dome	76.01	16	P	P	09 33 21.8 +0.2
I29M	Ogilvie Camp,	76.04	12	P	P	09 33 21.8 +0.1
N18K	Kilae Creek	76.05	21	P	P	09 33 22.3 +0.5
CUT	Chulitna	76.16	18	P	P	09 33 23.2 +0.8
SKT	Skwentna	76.20	19	P	P	09 33 22.8 +0.2
WAT1	Susitna Watana	76.22	17	P	P	09 33 22.9 +0.1
SCRK	Sand Creek	76.24	15	P	P	09 33 23.2 +0.3
H31M	Peel River	76.24	10	P	I Amb	09 33 23.2 +0.3
H31M	Peel River	76.24	10	P	I Amb	09 33 24.0
H31M	Peel River	76.24	10	P	P	09 33 23.4 +0.5
O16K	Kokwok River B	76.24	23	P	P	09 33 21.8 -1.0
RIDG	Independent Ri	76.27	15	P	P	09 33 23.5 +0.5
DHY	Denali Highway	76.29	17	P	I Amb	09 33 23.6 +0.3
DHY	Denali Highway	76.29	17	P	I Amb	09 33 24.2
DHY	Denali Highway	76.29	17	P	P	09 33 23.8 +0.5
N19K	Bonanza Creek	76.35	21	P	P	09 33 23.2 -0.4
O17K	Koliganek Bris	76.41	23	P	P	09 33 23.0 -0.8
I30M	Mout Dempster	76.48	11	P	P	09 33 24.0 -0.3
K27K	Chicken	76.57	14	P	P	09 33 24.3 -0.4
WAT6	Susuna Watana	76.63	17	P	P	09 33 25.3 +0.1
M22K	Willow	76.75	18	P	P	09 33 24.7 -1.0
PAX	Paxson	76.81	16	P	P	09 33 26.6 +0.4
O18K	Kokhtuk Hills	76.92	22	P	P	09 33 26.6 -0.1
DAWY	Dawson	77.04	13	P	P	09 33 27.7 +0.3
DAWY	Dawson	77.04	13	P	P	09 33 27.1 -0.3
P17K	Kvichak River	77.07	23	P	P	09 33 28.8 +0.3
J30M	Hart River	77.09	11	P	P	09 33 28.0 +0.2
J30M	Hart River	77.09	11	P	P	09 33 28.1 +0.4
PMR	Palmer	77.14	18	P	P	09 33 28.0 +0.1
NIKH	Nikolski High	77.18	32	P	P	09 33 29.0 +0.8
L26K	Log Cabin Wild	77.22	15	P	P	09 33 28.6 +0.3
P18K	Big Mountain,	77.29	22	P	P	09 33 28.6 -0.2
M23K	Glacier View	77.31	17	P	P	09 33 28.7 -0.2
SCM	Sheep Creek Mo	77.37	17	P	P	09 33 29.4 +0.1
HARP	HARP	77.39	22	P	P	09 33 29.5 +0.3
BOSA	Boshof	77.39	22	P	P	09 33 29.2 -0.6
M24K	Tolsona, Glenn	77.41	17	P	P	09 33 29.7 +0.2
RC01	Rabbit Creek A	77.41	19	P	P	09 33 30.1 +0.6
Q16K	King Salmon	77.42	23	P	P	09 33 30.4 +0.9
KNK	Knik Glacier	77.46	18	P	P	09 33 30.3 +0.6
O20K	Slope Mountain	77.48	20	P	P	09 33 29.4 -0.5
L27K	Beaver Creek,	77.49	14	P	P	09 33 30.7 +0.8
BCAR	Bear Creek A	77.50	14	P	P	09 33 30.4 +0.5
UNAR	Unalaska Valle	77.54	31	P	P	09 33 30.5 +0.3
K29M	Barlow Dome					

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like GHJU, MDBI, MSBI, etc.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like KBTR, KKBG, BKI, etc.

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like CLLRA, CLLR, BRUJ, etc.

UCR 26 09:40:53.9.0.8, 8.36N, 82.87W, h28km, 2km, MW3.6

CATAC 26 09:40:54.6.0.9, 8.36N, 82.87W, h17km, 2km, M3.5/9

MLV3.9, Error ellipse: s-maj=12.5km s-min=11.5km az=12.0, confirmed

ISC 26 09:40:54.3.1.1, 8.38N, 0.05, 82.87W, 0.03, h29km, 7km, n62, c074/66, Panama-Costa Rica border region

ILAR Eielson Array 24.88 50 P 10 01 37.4 +0.1

MJAR Matsushiro Arr 26.42 233 P 10 01 48.3 -3.3

H1N2 WAKE ISLAND Hy 36.45 176 T 10 42 10.0

H1N3 WAKE ISLAND Hy 36.45 176 T 10 42 20.8

H1N1 WAKE ISLAND Hy 36.45 176 T 10 42 13.3

ZALV Zalesovo Beam 43.24 302 LR 10 22 00.1

KURBB Kurchatov Arra 48.33 302 P 10 04 54.7 -1.2

MKAR Makanchi Array 49.07 296 P 10 05 01.9 +0.1

BVAR Borovoye Array 50.42 309 P 10 05 11.5 -0.4

NVAR Mina Array Bea 52.43 75 P 10 05 29.0 +1.6

ARTI Art 52.90 318 LR 10 30 57.4

PDAR Pinedale Array 53.89 65 P 10 05 38.8 +0.7

ULM Lac du Bonnet 54.90 51 P 10 05 45.5 +0.6

CMAR Chating Mai Arr 61.23 260 P 10 06 29.1 -0.5

HFS Hagfors 61.72 344 P 10 06 34.6 +2.2

TXAR Lajas Array 67.19 71 P 10 07 10.4 +1.6

GNI Ganni 71.31 315 LR 10 41 47.2

BRTR Keskin Arr M 75.75 323 P 10 08 00.3 0.0

WRA Waramunga Arr 79.97 209 P 10 08 23.0 -0.6

ASAR Arctic Springs 83.64 208 P 10 08 43.5 +0.6

QSPA South Pole Qui 145.94 180 PKPbc PKPab 10 15 52.0 -1.2

GMAL Guarumal, Vera 1.69 110 P 10 01 33.0 -0.1

RSUS3 Rio de Jesus, 1.70 102 P 10 01 38.8 +0.6

TURIB Turrialba 1.76 332 P 10 01 54.6 +0.9

VINA Juan Vinas 1.73 330 P 10 01 35.8 +0.8

VERB Verben 1.80 332 P 10 01 35.3 +0.8

LCR2 La Lucha 2 1.81 320 P 10 01 35.5 +0.6

LCR2 La Lucha 2 1.81 320 S 10 01 59.8 -1.0

ABE2 San Pablo 1.81 318 P 10 01 35.8 +0.9

PCAYA Pacayans 1.83 328 P 10 01 36.5 +1.1

STIA3 Santiago, Vera 1.86 388 P 10 01 51.9 +1.3

STIA3 Santiago, Vera 1.86 388 S 10 01 51.9 +1.3

ABRB Las Abbras (San 1.86 332 P 10 01 37.1 +1.4

RAFA San Rafael, Vo 1.87 329 P 10 01 36.6 +0.8

PARIA Puntarenas Pro 1.87 312 P 10 01 37.3 +1.7

CVTO Turrialba Volc 1.89 331 P 10 01 37.4 +1.2

CVTO Turrialba Volc 1.89 331 P 10 01 37.4 +1.2

VTRA Volcan Turrial 1.89 331 P 10 01 37.6 +1.3

VICA Volcano Irazu 1.91 329 P 10 01 37.3 +0.7

ACOS Acosta 1.95 316 P 10 01 37.5 +0.7

COCOR Coronado 1.98 325 P 10 01 48.9 +1.5

LUJA Lujan 1.99 322 P 10 01 38.7 +1.3

SJS Escuela Geolog 1.99 323 P 10 01 38.3 +0.9

COMO Finca Echandi 1.99 327 P 10 01 38.5 +1.0

DVMI Santo Domingo 2.04 323 P 10 01 39.7 +1.6

HDC Heredia 2.07 322 P 10 01 39.5 +1.1

HEME Mercedes 2.08 332 P 10 01 40.2 +0.5

BELE Belen 2.10 321 P 10 01 40.0 +1.2

CARI Cariari 2.19 336 P 10 01 41.8 +1.7

CACAO El Cacao, Vera 2.19 317 P 10 01 41.1 +1.1

TCS1 Tacares 2.22 319 S 10 02 11.8 -0.8

KCA1 Casapal 2.22 319 S 10 02 43.4 +0.3

ATEO Atenas 2.23 317 P 10 01 41.7 +1.1

TRB2 Turrubares 2.23 314 P 10 01 41.7 +1.1

IDC 26 09:45:06.2.3.6, 53.62N, 88.06E, h0km, mbtmp0.7/2, ML2.5/2, Error ellipse: s-maj=35.4km s-min=20.1km az=52.0

ASRS 26 09:45:06.0.1.4, 53.59N, 87.91E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p - CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like H46RU, ZALV, ZALV, etc.

JMA 26 09:57:31.7.0.1, 38.9N, 0.2, 140.7E, 0.2, h4km, 1km, MV0.6/21, NORTHERN MIYAGI PREF, Eastern Honshu

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like JYK, JOFO, etc.

CATAC 26 10:01:04.5.0.9, 8.36N, 82.87W, h28km, 2km, MW4.2/10, MLV4.2/10, Error ellipse: s-maj=13.6km s-min=9.7km az=46.6, confirmed

UCR 26 10:01:06.1.0.8, 8.34N, 82.82W, h29km, 1km, MW4.1, Fault plane solution: NP1:phi=244.06000, delta=73000, lambda=77.04000

UPA 26 10:01:05.8.1.1, 8.41N, 82.81W, h29km, 4km, MW3.6, RSNC 26 10:01:07.9.1.8, 8.36N, 11.8W, h28km, 2km, M3.0, mb4.8, ML3.0

ISC 26 10:01:05.9.1.0, 8.35N, 0.04, 82.83W, 0.02, h33km, 2km, region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like LESP3, LESP3, etc.

NEIC 26 10:06:15.7.0.6, 19.21N, 0.03, 155.50W, 0.02, h41km, 2km, Error ellipse: s-maj=4.9km s-min=2.7km az=188.0

HVO 26 10:06:17.3.0.8, 19.17N, 0.05, 155.48W, 0.05, h35km, 2km, ML2.8/4.1, ML2.9/4.0(NEIC), Error ellipse: s-maj=8.0km s-min=4.9km az=138.0, Hawaiian Islands

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, ISC. Includes stations like HTC, HPO, KHU, etc.

IDC 26 09:56:14.5.1.3, 56.18N, 164.45E, h51km, 22km, M4.1, Error ellipse: s-maj=22.1km s-min=15.1km az=156.0

ISC 26 09:56:18.4.0.6, 56.18N, 0.05, 164.40E, 0.05, h35km, n63, s=136/56, mb3.8/15, M3.3/4, Komandorsky Islands region

26D 10h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HATHI, MWLH, RSD, RSNH, etc.

IDC 26 10:10:46.6-1.0,38.62N-99.28E,h0km,mb3.5, mbmp3.6/9,ML3.5/3,MS3.0/6,Error ellipse: s-maj=26.4km s-min=18.2km az=77.0

ISC 26 10:10:47.8-1.1,38.6N-0.1-99.2E:0.1,h10km,n14, n1520,mb3.6/5,MS2.9/4,Qinghai

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SONM, MKAR, ZALV, KURBB, AAK, CMAR, KSRS, BLAR, JNU, YAK, AKTO, ILAR, WRA, ASAR.

KRSC 26 10:10:54.0-1.7,56.21N-164.29E,h48km,21km,MI3.5, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KBTR, KBG, Bering, SMKR, BDR, ZLN, etc.

UCR 26 10:16:23.3-1.4,8.26N-82.83W,h19km,3km,MW3.8 CATAC 26 10:16:23.3-1.0,8.2N-6.8W,h19km,3km,M3.8, MLV3.8/6,Error ellipse: s-maj=14.8km s-min=11.7km az=44.9,confirmed

ISC 26 10:16:21.7-1.3,8.23N-0.05-82.85W:0.02,h19km,3km, n122,01938/161,18C-BD,Panama-Costa Rica border

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LPPC, CDITO, NELY, MCANO, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BRU2, RSRNO, VITO, SCLRA, etc.

1694 3.1mm,1.0s,baz=45,slow=10.0,SNR=1.6 1.0mm,1.0s TORO Tori Ar. Bea 149.66 287 PKPbc PKPbc 10 44 57.3 -0.2 0.3mm,0.4s,baz=72,slow=2.2,SNR=2.0

FUNV 26 10:32:53.8,7.75N-71.96W,h1km,MW3.1 RSNV 26 10:32:54.6,0.0,8.2N-1.7,2W,h11km,3km,M2.6,ML2.3 ISC 26 10:32:52.0-1.3,7.74N:0.04-71.98W:0.03,h5km,11km, n13,0871/25,Venezuela

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like CAPV, PAMC, SOCOV, TAMC, etc.

CATAC 26 10:34:36.2-1.3,8.2N-8.8W,h2km,4km,M3.77, MLV3.7/7,Error ellipse: s-maj=17.5km s-min=8.1km az=17.7,confirmed

UCR 26 10:34:37.9-1.4,8.26N-82.89W,h17km,3km,MW3.7 ISC 26 10:34:36.3-1.7,8.22N:0.06-82.91W:0.03,h14km,9km, n115,01920/152,15C-BD,Panama-Costa Rica border

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LPPC, CDITO, NELY, FITO, etc.

IDC 26 10:25:04.7-4.0,5.23S-151.98E,h0km,mb3.4/3, mbmp3.4/3,Error ellipse: s-maj=140.4km s-min=53.7km az=122.0,New Britain region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA, ASAR, FITZ.





26d 10h

Table with columns: ID, Name, Az, El, AzErr, ElErr, AzRate, ElRate, AzRateErr, ElRateErr, AzRateRate, ElRateRate, AzRateRateErr, ElRateRateErr. Includes stations like E19K Redstone River, Q16K King Salmon, P17K Kivach River, etc.

2019 JUN

Table with columns: ID, Name, Az, El, AzErr, ElErr, AzRate, ElRate, AzRateErr, ElRateErr, AzRateRate, ElRateRate, AzRateRateErr, ElRateRateErr. Includes stations like NEA2 Nenana, TOLK Toolik Lake Re, RC01 Rabbit Creek A, etc.

1696

Table with columns: ID, Name, Az, El, AzErr, ElErr, AzRate, ElRate, AzRateErr, ElRateErr, AzRateRate, ElRateRate, AzRateRateErr, ElRateRateErr. Includes stations like L29M L29M, M29M Somme Creek, G30M Aah Zraii Nji, etc.

10C 26 10:47:29.0; 1, 3, 56; 13N; 164; 5, h0km, mb3.5/7, mbmp3.5/8, ML2.3/1, MS3.1/4, Error ellipse: s-maj=38.5km s-min=19.7km az=171.0

KRSC 26 10:47:30.4+1.3, 55.539N, 164.41E, h16km, 30km, M4.0, ISC 26 10:47:30.7-0.7, 56.070N, 0.06:164.61E, 0.05: h16km, n45, c1567/43, mb3.57, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like KRSC, KBRN, KBG, etc.

JMA 26 10:54:14.8-0.1, 24.33N, 0.5:122.1E, 0.3, h23km, 2km, MV3.1/16, TAIWAN REGION

ASIES 26 10:54:15.1, 24.35N, 122.01E, h20km, ML3.6, Mw3.7, Moment Tensor Solution. Moment tensor: Scale 10^21Nm; Mn-3.73; Mw2.31; Mw0-0.47; Mw-2.91; Mw0-0.09; Mr1.88; Fault plane solution: Mca.66631x10^21 NP1; o±257.79000°, δ±24.09000°, λ-123.25000°. NP2: o±113.48000°, δ70.04000°, λ-76.22000°. Principal axes: T P1g23.8380°, Azm192.8690°; P P1g2.9320°, Azm286.6920°; N P1g2.4850°; Azm44.8480°.

TAP 26 10:54:15.1, 24.33N, 122.01E, h20km, ML3.6, B, ISC 26 10:54:14.8-0.9, 24.33N, 0.02:122.04E, 0.02, h19km, 2km, n151, c0974/216, 13C-9D, Taiwan region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like EOSE, EOS3, EWU, etc.

Main table with columns: WHF, ESL, ESL, WHF, etc. Lists stations and their coordinates and times. Includes stations like Hehuan Shan, Mucha, Wufen Shan, etc.

NEIC 26 10:57:22.3+1.3, 56.19N, 0.07:164.45E, 0.09, h10km, 1km, mb4.650, Error ellipse: s-maj=12.8km s-min=6.6km az=145.0

MOS 26 10:57:23.0+0.8, 56.15N, 164.57E, h38km, mb4.7/15, Error ellipse: s-maj=7.1km s-min=4.6km az=55.2

ISC 26 10:57:21.9-0.4, 56.15N, 0.05:164.53E, 0.04, h10km, n462, c092/460, mb4.5/58, MS3.8/11, 5C-3D, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Op, ISC, Time, Res. Lists stations like KBRN, KBRN, KBG, etc.

KRSC 26 10:57:20.9+1.1, 56.16N, 164.70E, h50km, 19km, M4.6, ISC 26 10:57:20.6-0.6, 56.23N, 164.44E, h0km, mb4.1/25, mbmp4.1/29, ML3.8/4, MS3.9/9, Error ellipse: s-maj=15.9km s-min=10.3km az=168.0

26d 10h

Table with columns: ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Bias Error, Elevation Bias Bias Error, Azimuth Bias Bias Variance, Elevation Bias Bias Variance, Azimuth Bias Bias Covariance, Elevation Bias Bias Covariance, Azimuth Bias Bias Correlation, Elevation Bias Bias Correlation, Azimuth Bias Bias Bias Error, Elevation Bias Bias Bias Error, Azimuth Bias Bias Bias Variance, Elevation Bias Bias Bias Variance, Azimuth Bias Bias Bias Covariance, Elevation Bias Bias Bias Covariance, Azimuth Bias Bias Bias Correlation, Elevation Bias Bias Bias Correlation.

2019 JUN

Table with columns: ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Bias Error, Elevation Bias Bias Error, Azimuth Bias Bias Variance, Elevation Bias Bias Variance, Azimuth Bias Bias Covariance, Elevation Bias Bias Covariance, Azimuth Bias Bias Correlation, Elevation Bias Bias Correlation.

1698

Table with columns: ID, Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Precision, Elevation Precision, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Error, Elevation Bias Error, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Bias Error, Elevation Bias Bias Error, Azimuth Bias Bias Variance, Elevation Bias Bias Variance, Azimuth Bias Bias Covariance, Elevation Bias Bias Covariance, Azimuth Bias Bias Correlation, Elevation Bias Bias Correlation.



26d 11h

MA2	Magadan	8.16	301	Pn	Pn	11 04 14.7	-0.9
MA2	Magadan	8.16	301	PN	Pn	11 04 14.7	-0.9
AMKA	Amchitka	9.90	113	P	Pn	11 04 39.7	+0.4
ADK	Adak	11.77	103	Pn	Pn	11 05 03.9	-1.1
ADK	Adak	11.77	103	PN	Pn	11 05 03.9	-1.1
ATKA	Atka Island	13.00	99	Pn	Pn	11 05 19.5	+2.0
SPIA	Saint Paul Isl	13.84	75	P	Pn	11 05 33.9	+0.7
GAMB	Gambell	14.05	47	P	Pn	11 05 36.8	+0.9
PO8K	Saint George I	14.30	77	P	Pn	11 05 40.2	+0.8
NIKH	Nikolski High	15.66	90	P	Pn	11 05 59.0	+1.3
M11K	Mekoryuk	15.86	62	P	Pn	11 06 00.5	+0.3
TNA	Tin City	16.23	43	P	Pn	11 06 05.6	+0.6
UNV	Unalaska Valle	16.67	86	P	Pn	11 06 11.3	+0.8
K13K	Kusivlag Mount	16.73	57	P	Pn	11 06 11.9	+0.6
F14K	Arctic Creek	16.82	44	P	Pn	11 06 13.0	+0.6
ANM	Nome	16.93	48	P	Pn	11 06 14.4	+0.6
F15K	North Star Dit	17.56	44	P	Pn	11 06 22.2	+0.6
G15K	Niukuk	17.59	47	P	Pn	11 06 22.7	+0.6
L14K	Kuka Creek	17.62	59	P	Pn	11 06 23.1	+0.6
M14K	Bethel	17.96	61	P	Pn	11 06 27.1	+0.5
N14K	Kuskokwak Cree	18.12	64	P	P	11 06 29.5	+0.7
L15K	Ungalak Mounta	18.21	58	P	P	11 06 30.6	+0.8
K15K	Wolf Creek Mou	18.23	56	P	P	11 06 30.9	+0.9
H16K	Elim	18.26	49	P	P	11 06 31.8	+1.5
C16K	Lisburne Hills	18.30	36	P	P	11 06 32.5	+1.7
O14K	Tiguykaiuvet M	18.38	66	P	P	11 06 32.1	+0.4
G16K	Koyuk River	18.39	46	P	P	11 06 32.1	+0.4
ASAJ	Asahikawa	18.44	239	P	Pn	11 06 33.4	+0.8
S12K	Black Hills	18.58	77	P	P	11 06 34.5	+0.6
M15K	Kasigluk River	18.59	61	P	P	11 06 34.4	+0.4
J16K	Anvik River	18.75	53	P	Pn	11 06 36.5	+0.3
I17K	Unalakleet	18.79	51	P	P	11 06 37.1	+0.5
D17K	Noatak River	18.84	39	P	Pn	11 06 37.8	+0.5
N15K	Kwethluk River	18.91	63	P	P	11 06 38.2	+0.7
RDOG	Red Dog Mine	19.04	38	P	P	11 06 39.6	+0.7
E17K	Hotham Inlet	19.08	41	P	Pn	11 06 40.4	+0.2
G17K	Kiwalik Mounta	19.10	47	P	Pn	11 06 40.7	+0.2
F17K	Baldwin Pennin	19.10	44	P	Pn	11 06 40.5	+0.1
C17K	DeLong Mountai	19.11	37	P	Pn	11 06 40.5	-0.1
O15K	Ungalikthiuk R	19.12	66	P	Pn	11 06 41.1	+0.3
L16K	Owhat River	19.17	58	P	Pn	11 06 41.6	+0.3
H17K	Granite Mounta	19.29	48	P	P	11 06 42.5	+0.8
M16K	Timber Creek	19.43	60	P	P	11 06 44.2	+1.1
J17K	VADM Dome	19.44	53	P	Pn	11 06 44.9	+0.3
SDPT	Sand Point	19.54	78	P	P	11 06 45.7	+1.3
N16K	Nishik Lake	19.54	62	P	Pn	11 06 46.2	+0.4
E18K	Tukpahlearik C	19.64	41	P	P	11 06 46.4	+0.6
L17K	Donlin	19.74	57	P	P	11 06 47.1	+0.6
K17K	Iktarod	19.75	55	P	P	11 06 47.4	+0.7
F18K	Selawik	19.76	44	P	Pn	11 06 48.1	-0.2
S14K	Fog Glacier	19.79	75	P	P	11 06 48.4	+1.1
C18K	Utukok River	19.85	37	P	Pn	11 06 49.0	-0.4
C18K	Utukok River	19.85	37	P	Pn	11 06 49.4	-0.1
B18K	Kokolik River	19.94	35	P	Pn	11 06 50.3	-0.1
O16K	Kokwok River B	19.96	65	P	Pn	11 06 50.6	-0.1
H18K	Honhosa River	19.98	48	P	P	11 06 50.2	+1.0
P16K	Nushagak River	20.08	66	P	P	11 06 51.6	+1.3
M17K	Hollitsa River	20.15	59	P	P	11 06 52.2	+1.1
CHNA	Chernabura Isl	20.18	79	P	P	11 06 52.5	+1.0
N17K	Nushagak Hills	20.32	62	P	P	11 06 54.1	+1.1
O17K	Koliganek Bris	20.44	64	P	P	11 06 55.4	+1.2
L18K	Granite Mounta	20.49	57	P	P	11 06 55.9	+1.1
A19K	Wainwright	20.53	33	P	P	11 06 56.1	+1.1
F19K	Shalerucik Mo	20.54	43	P	P	11 06 56.3	+1.0
F19K	Shalerucik Mo	20.54	43	IAmb	IAmb	11 06 58.0	
F19K	Shalerucik Mo	20.54	43	P	P	11 06 56.5	+1.3
GCSA	Galena City Sc	20.55	50	P	P	11 06 56.5	+1.2
C19K	Lookout Ridge	20.56	37	P	Pn	11 06 56.5	+0.9
C19K	Lookout Ridge	20.56	37	P	Pn	11 06 57.2	-0.6
G19K	Purcell Mountai	20.67	46	P	P	11 06 57.8	+1.1
Q16K	King Salmon	20.82	67	P	P	11 06 59.5	+1.2
H19K	Roundabout Mou	20.83	47	P	P	11 06 59.5	+1.1
P17K	Kvichak River	20.85	65	P	P	11 06 59.5	+0.8
D19K	Kuna River	20.86	39	P	P	11 06 59.5	+0.7
D19K	Kuna River	20.86	39	IAmb	IAmb	11 07 01.0	
D19K	Kuna River	20.86	39	P	P	11 06 59.5	+0.7
E19K	Redstone River	20.90	42	P	P	11 07 00.1	+1.0
E19K	Redstone River	20.90	42	IAmb	IAmb	11 07 02.2	
E19K	Redstone River	20.90	42	P	P	11 07 00.3	+1.2
M18K	Stony River	20.92	59	P	P	11 07 00.4	+1.0
N18K	Kilae Creek	20.95	61	P	P	11 07 00.8	+1.1
J19K	Poorman	21.02	52	P	P	11 07 01.2	+0.7
J19K	Poorman	21.02	52	P	P	11 07 01.7	+1.2
Q17K	Contact Creek	21.29	68	P	P	11 07 04.7	+1.1
L19K	White Mountain	21.35	57	P	P	11 07 05.3	+1.2
O18K	Koktuh Hills	21.38	63	P	P	11 07 05.6	+1.2
F20K	Avaraart Lake	21.38	43	P	P	11 07 05.6	+1.4
P18K	Big Mountain,	21.43	65	P	P	11 07 06.3	+1.3
D20K	Etiulik River	21.45	39	P	P	11 07 06.1	+1.0
D20K	Etiulik River	21.45	39	IAmb	IAmb	11 07 07.2	

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D20K	Etiulik River	21.45	39	P	P	11 07 06.5	+1.4
H20K	Anotleneega Mo	21.47	48	P	P	11 07 07.0	+1.7
E20K	Nigu River	21.48	40	P	P	11 07 06.9	+1.5
I20K	Naaghedeneel	21.57	50	P	P	11 07 07.9	+1.5
M19K	Big River Lodg	21.58	58	P	P	11 07 08.0	+1.4
TIXI	Tiksi	21.61	330	P	P	11 07 07.3	+0.6
TIXI	Tiksi	21.61	330	P	P	11 07 07.1	+0.4
TIXI	Tiksi	21.61	330	P	P	11 07 07.3	+0.6
TIXI	Tiksi	21.61	330	P	P	11 07 07.3	+0.6
N19K	Bonanza Creek	21.62	61	P	P	11 07 08.0	+0.9
Q18K	Katmai Hardscr	21.67	66	P	P	11 07 08.4	+0.8
B20K	Meade River	21.68	35	P	P	11 07 08.9	+1.4
J20K	Nowinta River	21.68	51	P	P	11 07 08.1	+0.5
L20K	Farewell, AK	21.80	56	P	P	11 07 10.4	+1.5
IMAR	Indian Mountai	21.99	47	P	P	11 07 11.3	+0.4
CHIR	Chirikof Islan	22.04	74	P	P	11 07 12.4	+0.9
G21K	Allakaket	22.16	45	P	P	11 07 13.1	+0.5
M20K	Styx River	22.18	58	P	P	11 07 13.3	+0.3
R18K	Kariuk	22.19	69	P	P	11 07 12.7	-0.3
C21K	Knifblade Rid	22.21	38	P	P	11 07 14.1	+0.8
F21K	Alatna River	22.27	43	P	P	11 07 13.4	-0.5
Q19K	Cape Douglas,	22.32	65	P	P	11 07 14.7	+0.2
E21K	Killik River	22.32	40	P	P	11 07 15.0	+0.5
A21K	Barrow	22.33	32	P	P	11 07 15.0	+0.5
H21K	Melozitna River	22.35	48	P	P	11 07 15.4	+0.7
ILSW	Iliamna Southw	22.39	63	P	IAmb	11 07 16.3	+1.0
ILSW	Iliamna Southw	22.39	63	P	IAmb	11 07 18.8	
P19K	Oil Pt	22.40	63	P	P	11 07 16.0	+0.7
B21K	Ikpikpuk River	22.40	37	P	P	11 07 16.0	+0.8
CHUM	Lake Minchumin	22.48	52	P	P	11 07 16.6	+0.5
PPLA	Purkeypile	22.56	55	P	P	11 07 17.4	+0.3
CAST	Castle Rocks	22.59	53	P	P	11 07 17.6	+0.3
SII	Sitkinak Islan	22.59	72	P	P	11 07 17.8	+0.4
O20K	Slope Mountain	22.63	62	P	P	11 07 18.2	+0.4
I21K	Tanana	22.66	49	P	P	11 07 18.5	+0.5
SPCR	Spurr Chakacha	22.68	59	P	P	11 07 18.9	+0.5
A22K	Sinclair Lake	22.71	33	P	P	11 07 19.4	+0.8
D22K	Aiyikyak River	22.88	39	P	P	11 07 20.8	+0.4
OHAK	Old Harbor	22.89	70	P	P	11 07 21.0	+0.6
SKT	Skwentna	22.93	57	P	P	11 07 21.3	+0.4
H22K	Ishlitalina Cre	22.95	47	P	P	11 07 21.6	+0.4
G22K	Bettles	23.00	44	P	P	11 07 22.0	+0.5
B22K	Teshkopuk Lake	23.00	35	P	P	11 07 22.1	+0.6
Q20K	Shuyak Island	23.02	66	P	P	11 07 22.5	+0.7
E22K	Anaktuvuk Pass	23.05	41	P	P	11 07 22.3	+0.2
E22K	Anaktuvuk Pass	23.05	41	IAmb	IAmb	11 07 27.5	
E22K	Anaktuvuk Pass	23.05	41	P	P	11 07 22.5	+0.3
BPAW	Bear Paw Mtn.	23.07	52	P	IAmb	11 07 22.7	+0.4
BPAW	Bear Paw Mtn.	23.07	52	P	IAmb	11 07 24.2	
BPAW	Bear Paw Mtn.	23.07	52	P	P	11 07 22.7	+0.4
KTH	Kantishna Hill	23.11	53	P	P	11 07 23.7	+0.9
KTH	Kantishna Hill	23.11	53	IAmb	IAmb	11 07 39.0	
KDAK	Kodiak Island	23.11	68	I/P	P	11 07 23.6	+0.8
KDAK	Kodiak Island	23.11	68	P	P	11 07 23.4	+0.6
MLY	Manley	23.18	49	P	P	11 07 24.3	+0.8
HOM	Home	23.19	63	P	P	11 07 24.7	+1.1
SUA	Susitna One	23.35	58	P	P	11 07 25.8	+0.5
TRF	Thorofare Moun	23.39	53	P	P	11 07 26.2	+0.4
TRF	Thorofare Moun	23.39	53	IAmb	IAmb	11 07 27.7	
TRF	Thorofare Moun	23.39	53	P	P	11 07 26.6	+0.8
CUT	Chulitna	23.48	56	P	P	11 07 27.4	+1.0
COLD	Coldfoot	23.54	44	P	P	11 07 27.1	+0.1
G23K	Banza Creek	23.56	45	P	P	11 07 27.2	0.0
D23K	Nanushuk River	23.61	39	P	P	11 07 27.8	+0.2
M22K	Willow	23.61	58	P	P	11 07 28.3	+0.6
BRSE	Bradley Lake S	23.62	63	P	P	11 07 28.2	+0.3
H23K	Yukon River	23.70	47	P	P	11 07 29.1	+0.5
I23K	Minto, Yukon-K	23.76	49	P	P	11 07 31.0	+1.9
C23K	Ikilik River	23.80	37	P	P	11 07 30.4	+0.9
USA0B	Ussuriysk Arra	23.83	254	eP	P	11 07 30.6	+0.7
USRK	Ussuriysk Ar.	23.83	254	P	P	11 07 30.7	+0.8
USRK	Ussuriysk Ar.	23.83	254	P	P	11 07 30.7	+0.8
E23K	Chandalar	23.86	42	P	IAmb	11 07 32.0	
E23K	Chandalar	23.86	42	IAmb	IAmb	11 07 31.0	+0.8
RC01	Rabbit Creek A	23.89	59	P	P	11 07 31.2	+0.8
NEA2	Nenana	23.89	50	P	P	11 07 31.3	+0.9
TOLK	Toolik Lake Re	23.95	40	P	P	11 07 31.9	+1.0
MCK	McKinley	23.98	52	P	P	11 07 31.8	+0.5
O22K	Cooper Landing	23.99	61	P	P	11 07 31.6	+0.3
PMR	Palmer	24.10	58	P	P	11 07 32.5	+0.1
SEW	Seward	24.19	61	P	P	11 07 33.3	+0.1
WAT1	Susitna Watana	24.23	55	P	P	11 07 33.5	



G31M	Satah River	29.77	44	P	P	11 08 24.0 +0.9
INX	Inuvik	29.85	41	P	P	11 08 24.6 +0.6
F31M	Tsighthtchic	29.89	43	P	P	11 08 25.1 +0.9
H31M	Peel River	29.93	46	P	P	11 08 25.5 +0.8
P29M	Windy Craggy	30.02	59	P	P	11 08 25.9 +0.3
P30M	Million Dollar	30.23	56	P	P	11 08 28.0 +0.5
N31M	Braeburn, Yuko	30.36	55	P	P	11 08 29.2 +0.7
O30N	Mendenhall	30.43	56	P	P	11 08 29.4 +0.2
PLBC	Pleasant Camp	30.73	59	P	P	11 08 32.3 +0.5
M31M	Drury Creek, Y	30.78	53	P	P	11 08 32.1 -0.2
WHY	Whitehorse	31.03	56	P	P	11 08 34.8 +0.2
SKAG	Skagway	31.23	59	P	P	11 08 36.9 +0.7
FARO	Faro, Yukon	31.24	53	P	P	11 08 36.7 +0.4
MMPY	Sheldon Lake,	32.04	52	P	P	11 08 44.1 +0.6
R32K	Eaglecrest	32.06	60	P	P	11 08 44.3 +0.8
P33M	Teslin, Yukon	32.15	56	P	P	11 08 44.9 +0.5
S32K	Killiso noo	32.35	62	P	P	11 08 46.7 +0.7
Q32M	Nakina River	32.88	58	P	P	11 08 51.4 +0.5
R33M	Jennings River	33.32	57	P	P	11 08 55.5 +0.7
U33K	Whale Pass	33.66	63	P	P	11 08 58.2 +0.8
S34M	Telegraph Cree	33.85	60	P	P	11 08 59.7 +0.6
WRAK	Wrangell Islan	33.91	63	P	P	11 09 00.2 +0.6
CRAG	Craig	33.95	64	P	P	11 09 00.9 +0.9
T35M	Bob Quinn	34.69	61	P	P	11 09 07.3 +0.8
S0NM	Songino Array	35.82	282	P	P	11 09 14.5 -2.0
TOAD	Toad River Com	36.23	56	P	P	11 09 20.6 +0.9
H11N	WAKE ISLAND Hy	36.37	176	T	T	11 47 16.9
H11N3	WAKE ISLAND Hy	36.38	176	T	T	11 47 18.1
H11N1	WAKE ISLAND Hy	36.39	176	T	T	11 47 18.4
HHC	Hu-ho-hao-te	37.34	269	eP	P	11 09 30.3 +0.9
HHC						
HHC						
HHC						
HHC						
YKA	Yellowknife Arr	39.15	47	P	P	11 09 44.8 +0.5
SPITS	Spitsbergen Ar	44.57	351	P	P	11 10 27.9 -0.5
J05D	Fort Rock, OR	47.33	73	P	P	11 10 50.9 +0.2
L04D	Klamath Falls	47.78	75	P	P	11 10 53.2 +1.3
K05A	Summer Lake	47.90	73	P	P	11 10 56.7 +1.5
KURSA	Kurchatov	48.37	302	P	P	11 10 58.7 +0.2
KURBS	Kurchatov Arra	48.48	302	P	P	11 10 58.7 -0.7
PLID	Pearl Lake	48.86	68	P	P	11 11 03.6 +0.9
MK31	Makanchi Array	49.21	296	eP	P	11 11 03.2 -1.9
MKAR	Makanchi Array	49.21	296	eP	P	11 11 04.5 -0.6
MKAR	Makanchi Array	49.21	296	eP	P	11 11 04.0 -1.0
MKAR	Makanchi Array	49.21	296	eP	P	11 11 04.5 -0.6
SPMT	Black Pt Mt	50.56	309	P	P	11 11 14.8 -0.4
BVAR	Borovoye Array	50.56	309	P	P	11 11 14.8 -0.4
NVAR	Mina Array Bea	52.32	75	P	P	11 11 29.9 +1.0
ARTI	Arti	53.03	318	eP	P	11 11 33.5 -0.1
ARTI						
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ARTI						
PZH	Panzhihua	53.83	264	P	P	11 11 39.3 +2.6
PDAR	Pinedale Array	53.86	66	P	P	11 11 40.4 +0.6
NB2	NORSAR Subarra	61.32	346	P	P	11 12 32.0 -0.1
NOA	NORSAR Array B	61.32	346	P	P	11 12 32.0 -0.1
NOA	NORSAR Array B	61.32	346	eP	P	11 12 32.6 +0.5
CMAR	Chiang Mai Arr	61.34	260	P	P	11 12 33.1 +0.3
CMAR	Chiang Mai Arr	61.34	260	P	P	11 12 33.4 +0.6
HFS	Hagfors	61.82	344	P	P	11 12 34.1 -1.3
TXAR	Lajitas Array	67.09	71	P	P	11 13 11.3 +0.8
KBZ	Khabaz	69.08	319	eP	P	11 13 19.8 -2.8
WRA	Warramunga Arr	79.97	209	P	P	11 14 26.4 +0.4
ASAR	Alice Springs	83.64	208	P	P	11 14 45.9 +0.6
QSPA	South Pole Qui	145.87	180	PKPbc	PKPdf	11 21 53.8 -0.4

BKI	Bering	1.77	285	eS	Sb	11 07 37.0 -2.6
SMKR	Semkarok	1.77	285	eP	Pn	11 07 30.5 -0.5
SMKR	Semkarok	1.77	285	eP	Pn	11 07 30.6 -0.5
ZLN	Zelenaya	2.11	268	eP	Pn	11 07 35.6 0.0
ZLN	Zelenaya	2.11	268	eP	Pn	11 07 35.6 0.0
BZGR	Bezymyanni-Gr	2.18	266	eP	Pn	11 07 36.5 -0.1
BZGR	Bezymyanni-Gr	2.18	266	eP	Pn	11 08 03.5 +0.2
BZGR	Bezymyanni-Gr	2.18	266	eP	Pn	11 07 36.6 -0.1
BZGR	Bezymyanni-Gr	2.18	266	eP	Pn	11 08 03.5 +0.2
KLY	Klyuchi	2.19	276	eP	Pn	11 07 34.9 -1.7
KLO	Klyuchi	2.19	276	eP	Pn	11 07 34.9 -1.7
KRSR	Krestovskiy	2.24	273	eP	Pn	11 07 37.0 -0.4
KRSR	Krestovskiy	2.24	273	eP	Pn	11 07 37.0 -0.4
MKZ	Mys Kozlova	2.28	226	eP	Pn	11 07 36.5 -1.3
MKZ	Mys Kozlova	2.28	226	eP	Pn	11 07 36.5 -1.3
BZWR	Bezymyanni-We	2.29	267	eP	Pn	11 07 38.5 +0.4
BZWR	Bezymyanni-We	2.29	267	eP	Pn	11 07 38.6 +0.4
BZMR	Bezymyannaya	2.30	266	eP	Pn	11 07 38.6 +0.4
BZMR	Bezymyannaya	2.30	266	eP	Pn	11 07 38.6 +0.4
KIRR	Kirishev	2.36	267	eP	Pn	11 07 39.8 +0.5
KIRR	Kirishev	2.36	267	eP	Pn	11 08 08.1 -0.1
KIRR	Kirishev	2.36	267	eP	Pn	11 07 39.8 +0.5
KIRR	Kirishev	2.36	267	eP	Pn	11 08 08.2 -0.1
KPT	Kopyto	2.44	267	eP	Pn	11 07 40.7 +0.6
KPT	Kopyto	2.44	267	eP	Pn	11 07 40.8 +0.6
KMNK	Kamenistaya	2.46	262	eP	Pn	11 07 41.3 +0.8
KMNK	Kamenistaya	2.46	262	eP	Pn	11 07 41.3 +0.8
TUMD	Tumuk D	2.54	240	eP	Pn	11 07 41.6 +0.1
TUMD	Tumuk D	2.54	240	eP	Pn	11 07 41.6 +0.1
SRDR	Sredinnyy	2.71	275	eP	Pn	11 07 45.0 +1.2
SRDR	Sredinnyy	2.71	275	eP	Pn	11 07 45.1 +1.2
OSSR	Ossora	3.21	346	eP	Pn	11 07 50.2 -0.4
OSSR	Ossora	3.21	346	eP	Pn	11 07 50.2 -0.4
ESO	Esso	3.30	288	eP	Pn	11 07 52.7 +0.9
ESO	Esso	3.30	288	eP	Pn	11 07 52.7 +0.9
SPN	Mys Shpunski	4.04	223	eS	Sn	11 08 46.2 -2.8
SDLR	Sedlovina	4.38	231	eP	Pn	11 08 07.2 +0.5
SDLR	Sedlovina	4.38	231	eP	Pn	11 08 07.2 +0.5
SMAR	Smolva	4.42	231	eP	Pn	11 08 07.6 +0.1
SMAR	Smolva	4.42	231	eP	Pn	11 08 07.6 +0.1
KRX	Arik	4.42	233	eP	Pn	11 08 09.0 +1.6
KRX	Arik	4.42	233	eP	Pn	11 08 09.0 +1.6
UGLR	Uglovaya	4.45	231	eP	Pn	11 08 09.4 +1.6
UGLR	Uglovaya	4.45	231	eP	Pn	11 08 09.4 +1.6
KOK	Koryaka	4.47	233	eP	Pn	11 08 09.6 +1.5
KOK	Koryaka	4.47	233	eP	Pn	11 08 09.6 +1.5
GNL	Ganally	4.54	240	eP	Pn	11 08 10.2 +1.2
GNL	Ganally	4.54	240	eP	Pn	11 08 10.3 +1.2
DALK	Dalny	4.60	230	eP	Pn	11 08 10.3 +0.6
DALK	Dalny	4.60	230	eP	Pn	11 08 10.4 +0.6
WAKE	Petrovavlovsk	4.65	230	eP	Pn	11 08 11.8 +1.4
PET	Petrovavlovsk	4.65	230	eP	Pn	11 08 10.9 +0.5
PET	Petrovavlovsk	4.65	230	eP	Pn	11 08 11.0 +0.5
PEA0B	Petrovavlovsk	5.02	235	eP	Pn	11 08 17.8 +2.3
PEA0B	Petrovavlovsk	5.02	235	eP	Pn	11 08 17.8 +2.3
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 08 16.4 +0.8
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 08 16.5 +0.8
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 09 16.4 +3.2
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 09 16.4 +3.2
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 09 16.4 +3.2
PETK	Petrovavlovsk	5.02	235	eP	Pn	11 09 16.4 +3.2
RUS	Russkaya	5.14	226	eP	Pn	11 08 17.2 +0.1
RUS	Russkaya	5.14	226	eP	Pn	11 08 17.2 +0.1
GRL	Gorelyy	5.24	229	eP	Pn	11 08 20.3 +1.7
GRL	Gorelyy	5.24	229	eP	Pn	11 08 20.3 +1.7
MTVR	Mutnovka	5.24	228	eP	Pn	11 08 20.0 +1.4
MTVR	Mutnovka	5.24	228	eP	Pn	11 08 20.0 +1.4
ASAK	Asacha	5.43	229	eP	Pn	11 08 22.8 +1.6
ASAK	Asacha	5.43	229	eP	Pn	11 08 22.9 +1.6
SMY	Shemya	6.53	118	eP	Pn	11 08 38.3 +2.0
SMY	Shemya	6.53	118	eP	Pn	11 08 38.3 +2.0
SKR	Severo-Kuril's	7.45	226	eP	Pn	11 08 47.0 -1.8
SEY	Seymchan	9.18	323	eP	Pn	11 09 08.4 +1.0
ADK	Adak	11.82	103	eP	Pn	11 09 47.9 -0.7
ADK	Adak	11.82	103	eP	Pn	11 09 47.9 -0.7
BILL	Billino	11.83	92	eP	Pn	11 09 47.9 -0.7
BILL	Billino	11.83	92	eP	Pn	11 09 47.9 -0.7
ATKA	Atka Island	13.02	99	eP	Pn	11 09 47.9 -0.7
NIKH	Nikolski Creek	15.70	91	eP	Pn	11 10 42.2 -2.9
L14K	Kuka Creek	17.64	59	eP	Pn	11 11 08.2 +1.7
M14K	Bethel	17.98	61	eP	Pn	11 11 10.2 0.0
M14K	Bethel	17.98	61	eP	Pn	11 11 27.4
C16K	Lisburne Hills	18.29	36	eP	Pn	11 11 14.4 +0.7
JKA	Kamikawa-asahi	18.43	238	eP	Pn	11 11 16.7 +1.2
JKA	Kamikawa-asahi	18.43	238	eP	Pn	11 11 25.7
ASAJ	Asahikawa	18.43	238	eP	Pn	11 11 17.1 +1.6
ASAJ	Asahikawa	18.43	238	eP	Pn	11 11 17.1 +1.6
YAK	Yakutsk	18.66	303	LR	LR	11 18 28.8
N15K	Kwethiuk River	18.92	63	eP	Pn	11 11 23.6 +2.3
N15K	Kwethiuk River	18.92	63	eP	Pn	11 11 31.0
RDOG	Red Dog Mine	19.03	38	eP	Pn	11 11 24.2 +1.6
RDOG	Red Dog Mine	19.03	38	eP	Pn	11 12 03.9
O15K	Ungalikthiuk R	19.14	66	eP	Pn	11 11 24.1 +0.1
O15K	Ungalikthiuk R	19.14	66	eP	Pn	11 11 35.1
L16K	Owhat River	19.18	58	eP	Pn	11 11 24.5 0.0
H17K	Granite Mounta	19.30	49	eP	Pn	11 11 24.7 -1.1
M16K	Timber Creek	19.44	60	eP		

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SPR3, SPR3, Kangerlussuaq, KIRVD, etc.

KRNET 26 11:10:29.0.1.41:20N:69.57E, h0km, mb2.7
ISC 26 11:10:33.1.4, 8.13N:0.004:69.73E:0.09, h5km, 15km, n8, e12/24/14, 8C-6D, Gyrgyzstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like TRKS, TRKS, BTK, BTK, etc.

ISC 26 11:28:13.3.2.2.6:61S:130.71E, h0km, mb3.6/1, mbmp3.7/4, ML3.7/3, Error ellipse: s-maj=85.9km, s-min=28.2km az=78.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SAUI, SAUI, BNDI, BNDI, etc.

CATAC 26 11:31:55.0.8.8'N:4.8'W, h1km, M3.7H, MLV3.7/8, Error ellipse: s-maj=9.3km s-min=6.5km az=161.8, confirmed

UCR 26 11:31:56.5.1.4, 8.28N:82.81W, h15km, 6km, MWV3.7
ISC 26 11:31:55.3.1.5, 8.23N:0.07:82.85W:0.04, h17km, 9km, n51, e12/56, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CDITO, CDITO, NELY, NELY, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like OCHAL, OCHAL, KKNTU, KKNTU, etc.

ISC 26 11:55:02.5.1.4, 56:25N:164.16E, h0km, mb3.6/7, mbmp3.6/8, ML2.1/1, MS2.8/4, Error ellipse: s-maj=102.4km s-min=17.6km az=140.0

KRSC 26 11:55:03.0.1.7, 56:21N:164.42E, h50km, 22km, ML3.9
ISC 26 11:55:02.6.1.6, 56:22N:0.004:164.32E:0.03, h4km, 10km, n51, e162/64, mb3.6/7, Komandorski Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR, KBTR, KBTR, KBTR, etc.

ISC 26 11:10:33.1.4, 8.13N:0.004:69.73E:0.09, h5km, 15km, n8, e12/24/14, 8C-6D, Gyrgyzstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like TRKS, TRKS, BTK, BTK, etc.

ISC 26 11:28:13.3.2.2.6:61S:130.71E, h0km, mb3.6/1, mbmp3.7/4, ML3.7/3, Error ellipse: s-maj=85.9km, s-min=28.2km az=78.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SAUI, SAUI, BNDI, BNDI, etc.

CATAC 26 11:31:55.0.8.8'N:4.8'W, h1km, M3.7H, MLV3.7/8, Error ellipse: s-maj=9.3km s-min=6.5km az=161.8, confirmed

UCR 26 11:31:56.5.1.4, 8.28N:82.81W, h15km, 6km, MWV3.7
ISC 26 11:31:55.3.1.5, 8.23N:0.07:82.85W:0.04, h17km, 9km, n51, e12/56, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CDITO, CDITO, NELY, NELY, etc.

ISC 26 11:58:20.1.1.9, 34:33N:141.36E, h0km, mb3.5/3, mbmp3.7/6, ML3.2/2, Error ellipse: s-maj=60.1km, s-min=19.9km az=69.0

JMA 26 11:58:24.1.0.3, 34:30N:0.9:141.1E, h42km, 1km, MV3.3/35, FAR SE OFF BOSSO PEN

ISC 26 11:58:24.0.1.6, 34:27N:0.04:141.34E:0.07, h32km, 12km, n31, e156/38, mb3.6/3, Off east coast of Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BSO1, BSO1, BSO2, BSO2, etc.

ISC 26 11:58:05.9.4.3, 54:8N:167.76E, h0km, mb3.6/4, mbmp3.6/5, ML3.2/2, Error ellipse: s-maj=102.4km, s-min=17.6km, az=140.0

KRSC 26 11:55:03.0.1.7, 56:21N:164.42E, h50km, 22km, ML3.9
ISC 26 11:55:02.6.1.6, 56:22N:0.004:164.32E:0.03, h4km, 10km, n51, e162/64, mb3.6/7, Komandorski Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MAJO, MAJO, MAJO, MAJO, etc.

ISC 26 12:01:44.4.0.7, 8:42N:82:80W, h2km, 3km, MWV3.1
ISC 26 12:01:42.6.1.1, 8:32N:0.05:82.84W:0.03, h32km, 6km, n53, e090/83, 4C-25D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LESP3, LESP3, NELY, NELY, etc.

ISC 26 11:28:13.3.2.2.6:61S:130.71E, h0km, mb3.6/1, mbmp3.7/4, ML3.7/3, Error ellipse: s-maj=85.9km, s-min=28.2km az=78.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SAUI, SAUI, BNDI, BNDI, etc.

CATAC 26 11:31:55.0.8.8'N:4.8'W, h1km, M3.7H, MLV3.7/8, Error ellipse: s-maj=9.3km s-min=6.5km az=161.8, confirmed

UCR 26 11:31:56.5.1.4, 8.28N:82.81W, h15km, 6km, MWV3.7
ISC 26 11:31:55.3.1.5, 8.23N:0.07:82.85W:0.04, h17km, 9km, n51, e12/56, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like CDITO, CDITO, NELY, NELY, etc.

IDC 26 12:06:44.0.2.4, 53°32'N-63°11'E, h0km, mb3.0/1, mbtmp3.2/3, ML2.8/2, 2C-5D, Error ellipse: s-maj=68.0km s-min=19.3km az=17.0, Western

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like AKTO Aktyubinsk, I31KZ AKTYUBINSK INF, BVA0 Borovoye Array, etc.

UCR 26 12:09:45.5.1.3, 8°35'N-82°88'W, h23km, 3km, MW3.6, CATAC 26 12:09:45.2.1.1, 8°N, 9°E, 3W, h23km, 3km, MW3.76, MLV3.7/6, Error ellipse: s-maj=24.1km s-min=12.7km az=44.8, confirmed

ISC 26 12:09:45.5.1.3, 8°35'N-07°82'88'W, 0.03, h31km, 7km, m69, r1942/84, 12C-13D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like CDITO Canoas, NELY Ciudad Neily, MCANO Manzana, Boque, etc.

UCR 26 12:15:16.1.4, 8°27'N-82°82'W, h16km, 4km, MW3.7, 8C-6D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like MCANO Manzana, Boque, NELY Ciudad Neily, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like PBNVO Pueblo Nuevo, RBALA Bur, PANP Palmar Norte, etc.

IDC 26 12:17:23.5.1.0, 56°15'N-164°74'E, h0km, mb3.6/9, mbtmp3.7/11, ML3.3/2, MS3.0/9, Error ellipse: s-maj=28.0km s-min=18.1km az=164.0

KRSC 26 12:17:23.5.1.0, 56°15'N-164°67'E, h50km, 18km, ML4.1, ISC 26 12:17:25.4.0.7, 56°14'N-164°66'E, 0.05, h16km, m57, r1941/49, mb3.7/9, MS3.1/6, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, etc.

PETK 0.9mm, 0.3s, baz=71, slow=18, SNR=15, 1.5m, 0.9s

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like RUS Russkaya, GRL Gorelyy, MTRV Murovka, etc.

ILAR 0.7mm, 0.9s, baz=272, slow=10, SNR=7.0, 0.7mm, 0.9s

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like NRJAK Matsushiro Arr, MNIK Noril'sk, H1N2 WAKE ISLAND Hy 36, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like GSKC Great Sitkin C, GSSK Great Sitkin S, ATKA Atka Island, etc.

IDC 26 12:22:56.8.1.8, 2°8'S-139°57'E, h0km, mb3.5/3, mbtmp3.7/4, ML3.8/1, Error ellipse: s-maj=111.3km s-min=29.0km az=113.0

DJA 26 12:23:00.1.0.4, 2°S, 3°W, h10km, M3.5/6, MLV3.5/6, ISC 26 12:22:59.4.0.9, 2°33'S-139°58'E, 0.06, h10km, m9, r173/9, Irian Jaya region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like SMPI Sami, GENI Genyum, JAY Jayapura, etc.

IDC 26 12:36:39.1.0.6, 56°24'N-164°14'E, h0km, mb3.7/19, mbtmp3.7/21, ML3.1/2, MS3.1/10, Error ellipse: s-maj=20.5km s-min=12.8km az=155.0

MOS 26 12:36:39.5.0.9, 56°22'N-164°27'E, h15km, mb4.2/7, Error ellipse: s-maj=8.1km s-min=5.6km az=48.5

KRSC 26 12:36:40.9.1, 3.55°S-164°09'E, h16km, 28km, ML4.2

NEIC 26 12:36:41.6.1.7, 56°5'N-163°7'E, 0.2, h10km, 2km, mb4.0/67, Error ellipse: s-maj=24.0km s-min=13.1km az=340.0

ISC 26 12:36:40.5.0.4, 56°13'N-164°15'E, 0.03, h10km, m199, r1953/189, mb4.0/51, MS3.3/5, IC, Komandorsky Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, etc.

AEIC 26 12:22:54.0.1.8, 52°0'N-02°175°41'W, 0.06, h76km, 5km, Error ellipse: s-maj=26.8km s-min=2.8km az=170.0

NEIC 26 12:22:54.1.0.7, 51°38'N-01°175°33'W, 0.07, h75km, 10km, ML3.5/6, ML3.0/AEIC, Error ellipse: s-maj=18.9km s-min=1.0km az=161.0, Androan Islands









Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like ALIBA Liberia Airport, ELIH Hacienda Flor, LAPC Finca la Perla, etc.

IDC 26 14:07:05.8; 1.9, 56; 20N; 164.23E, h0km, mb3.3/3, mbmp3.3/4, ML2.7/1, Error ellipse: s-maj=184.7km s-min=25.2km az=145.0

KRSC 26 14:07:06.8; 1.4, 56; 10N; 164.18E, h50km, mb3km, h10.9

ISC 26 14:07:06.3; 0.9, 56; 13N; 0.05; 164.25E; 0.05, h1.0km, n41, s=139/43, mb3.4/3, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KBTB Krutoberegovo, BKBI Bering, SMKR Semkarok, etc.

IDC 26 14:11:57.4; 1.7, 33; 92N; 25.28E, h0km, mb3.7/3, mbmp3.6/4, ML3.1/1, MS2.6/2, Error ellipse: s-maj=61.7km s-min=29.6km az=143.0, Eastern Mediterranean Sea

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KEST Kesra, GERES GERES Array B, HFS Hagfors, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KURSB Kurchatov Arra, MKAR Makanchi Arra, UCR 26 14:16:42.2, etc.

ISC 26 14:16:42.8; 1.1, 8.4; 1N; 0.05; 82.88W; 0.02, h31km, 5km, n58, s=152/85, 8C-17D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like LESP3 La Esperanza, CDITO Canoas, NELY Ciudad Neily, etc.

IDC 26 14:23:27.9; 0.6, 56; 20N; 163.93E, h0km, mb4.0/25, mbmp4.1/27, ML3.3/2, MS3.2/31, Error ellipse: s-maj=17.2km s-min=1.4km az=147.0

KRSC 26 14:23:29.1; 2.56; 11N; 164.26E, h48km, 20km, Mc4.6, M4.4

NEIC 26 14:23:29.9; 1.9, 56; 15N; 0.07; 163.9E; 0.1, h10km, 1km, mb4.4/31, Error ellipse: s-maj=15.5km s-min=6.2km az=140.0

MOS 26 14:23:32.3; 0.9, 56; 10N; 164.05E, h51km, mb4.4/16, Error ellipse: s-maj=7.0km s-min=4.5km az=59.3

ISC 26 14:23:29.7; 1.4, 56; 13N; 0.04; 164.12E; 0.03, h12km, 8km, n205, s=127/195, mb4.3/47, MS3.1/26, 2C-1D, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KBTB Krutoberegovo, BKBI Bering, SMKR Semkarok, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like KIRR Kopyto, KPT Kopyto, KMNRR Kamenistaya, etc.

Table of station data for 26d 14h, including call signs (e.g., G24K, JSD), names (e.g., Hadzwenic Riv, Sado), frequencies, and other technical details.

Table of station data for 2019 JUN, including call signs (e.g., KBZ, VRAO), names (e.g., Khabaz, Vranov), frequencies, and other technical details.

Table of station data for 1708, including call signs (e.g., SBCB, SBOC), names (e.g., Hsinchu, Emei), frequencies, and other technical details.



26d 16h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ALCO Alturas Coton, BOTLY Boquete Panama, BOSF3 Alto Boquete, etc.

IDC 26 15:18:50.5±3.5, 31.35S±177.15W, h0km, mb3.6/2, mbtmp3.6/3, ML3.0/1, Error ellipse: s-maj=83.9km s-min=49.9km az=121.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, etc.

IEPC 26 15:27:15.9±0.1, 50.14N±19.12E, h1km, ML2.6/3, Error ellipse: s-maj=1.8km s-min=0.8km az=1.0

VIE 26 15:27:15.8±0.7, 49.93N±19.24E, h0km, mb2.7/3, ml2.4/4, ms3.1/1, Error ellipse: s-maj=13.4km s-min=2.5km az=155.0, 39 km SSE of Sosonowice Suspected Mining induced.

PRU 26 15:27:16.6, 50.19N±19.08E, h0km ±19.0/42, Poland

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like OJC Ojcow, OKC Ostrava-Krasne, STEB Steborice, LANS Lipitovska Anna, etc.

IDC 26 15:32:04.9±4.1, 6.40S±129.18E, h198km±41km, mb2.7/1, mbtmp3.9/5, Error ellipse: s-maj=44.1km s-min=19.3km az=65.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BATI Baumata, FITZ Fitzroy Crossi, WRA Warramunga Arr, etc.

2019 JUN

ASAR 0.5mm, 0.9s, baz=349, slow=24, SNR=2.3 MKAR Makanchi Array 67.28 327 P 15 42 37.9 ±0.3

NEIC 26 15:35:05.1±0.5, 35.781N±0.007°96.69W±0.01, h5km±1km, mb\_Lg2.3/12, ML2.5/30, ML2.5/34, Error ellipse: s-maj=2.6km s-min=1.6km az=69.0

NEIC 26 15:35:05.2±0.8, 35.787N±0.009°96.69W±0.01, h8km±2km, Error ellipse: s-maj=1.8km s-min=1.2km az=122.0, Oklahoma

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DEOK Depew, OK052 Battle Ridge R, OK029 Liberty Lake, etc.

IDC 26 15:35:19.4±10.0, 18.05S±177.96W, h515km±113km, mb2.9/5, mbtmp3.8/5, Error ellipse: s-maj=49.3km s-min=40.6km az=91.0, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, WRA WAKE ISLAND Hy, etc.

IDC 26 15:44:08.2±0.2, 83N±128.39E, h0km, mb3.4/5, mbtmp3.5/5, Error ellipse: s-maj=126.3km s-min=21.5km az=72.0

DJA 26 15:44:11.4±1.1, 3°N±5°12'9E±1, h16km±9km, M3.6/7, MLV3.6/7

ISC 26 15:44:12.3±1.6, 2.9N±0.1°128.8E±0.2, h35km, n13, ±0.88/8, mb3.4/5, Malahera

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like TNTI Ternate, SGSI Sangihe, FITZ Fitzroy Crossi, etc.

NEIC 26 15:54:25.4±1.1, 45°81N±0.04°106.76W±0.08, h0km±1km, ML2.8/24, Error ellipse: s-maj=9.5km s-min=6.8km az=115.0

IDC 26 15:54:26.2±2.3, 45°82N±106°89W, h0km, mbtmp3.0/2, ML3.0/2, Error ellipse: s-maj=88.6km s-min=10.2km az=133.0

ISC 26 15:54:26.4±1.0, 45.84N±0.06°106.73W±0.07, h0km, n34, ±0.70/34, Montana

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LAO LASA Array, RLMT Red Lodge, GCMT Greycliff, etc.

1710

RSSD Black Hills 2.57 131 Pn Pn 15 55 09.4 ±0.1

YMP Mirror Lake PI 2.65 247 Pn Pn 15 55 11.5 ±0.7

BOZ Bozeman (W) 3.44 268 Pn IAML Pn 15 55 21.9 ±0.5

PD31 Pinedale Array 3.68 214 Pn Pn 15 55 25.0 ±0.2

PDAR Pinedale Array 3.68 214 Pn Pn 15 55 24.8 ±0.0

BW06 Boulder Array 3.68 214 Pn Pn 15 55 24.1 ±0.7

OVAND Ovando 4.50 288 Pn Pn 15 55 35.4 ±0.5

IS65US NEWPORT INFRA5 7.50 293 I I 15 56 56.2

PV07 Paradox Valley 7.53 192 Pn Pn 15 56 17.3 ±0.4

PV15 Paradox Valley 7.60 190 Pn Pn 15 56 18.6 ±0.1

PV14 Paradox Valley 7.65 194 Pn Pn 15 56 18.8 ±0.4

PV12 West Nyswonger 7.67 193 Pn Pn 15 56 18.7 ±0.9

PV11 David Mesa, Pa 7.70 193 Pn Pn 15 56 20.0 ±0.0

PV18 Skein Mesa, Pa 7.76 193 Pn Pn 15 56 20.5 ±0.2

PV02 Paradox Valley 7.77 192 Pn Pn 15 56 20.3 ±0.7

ULM Lac du Bonnet 8.51 55 Pn Pn 15 56 30.7 ±0.1

NOU 26 16:03:18.9, 34°73'S±179°78E, h297km, ML4.3/13, South of Kermadec Islands

WEL 26 16:03:33.4±0.6, 35°S±7°17'9E±1, h229km±10km, M4.0/39, ML4.1/46, MLV4.0/39, Error ellipse: s-maj=11.2km s-min=7.2km az=124.7, confirmed

ISC 26 16:03:31.4±3.5, 35.75S±0.2°179.1E±0.1, h275km±12km, n136, ±180/164, Off east coast of North Island

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like MXZ Matakaoa Point, WMGZ Waiomatatini S, HAZ The Kahia, etc.

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like TRVZ Turoa, PKVZ Pokaka, PXZ Pawanui, etc.

WEL 26 16:10:24.2, 1.2, 33.3, 7.18, 0.0E, 1.6, h12km, M4.5/12, mB5.2/7, ML4.3/15, ML4.4/12, Mw(mb)4.5/7, Error ellipse: s-maj=20.6km s-min=21.1km az=97.0 confirmed

NOU 26 16:10:29.5, 3.4, 16.5, 179.91W, h32km, ML4.3/15, South of Kermadec Islands

ISC 26 16:10:29.4, 3.7, 33.9S, 0.2, 179.7E, 0.2, h300km, n62, c=1946/69, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MXZ Matakaoa Point, HAZ Te Kaha, PKGZ Pakihiroa, etc.

DJA 26 16:16:53.4, 0.5, 8.5, 7.11, 7E, h284km, 7km, M4.1/11, mB5.0/1, mb4.2/3, ML4.0/11, Mw(mb)4.4/1

ISC 26 16:16:53.1, 5.3, 7.21S, 117.81E, h298km, 50km, mb2.9/5, mbmp3.6/7, Error ellipse: s-maj=91.7km s-min=18.4km az=61.0

ISC 26 16:16:52.6, 0.9, 7.63S, 0.09, 117.45E, 0.08, h306km, n18, c=2912/21, mb3.3/4, Ball Sea

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like PLAI Plampang, WBSI Waikabubak, Su, WBSI Bau Bau, Buton, etc.

ISC 26 16:31:01.1, 4.1, 4.0, 23.12S, 179.84W, h588km, 416km, mb3.2/5, mbmp4.2/5, Error ellipse: s-maj=302.8km s-min=53.7km az=52.0

ISC 26 16:31:04.6, 2.1, 23.7S, 0.2, 180.0E, 0.2, h600km, n36, c=1964/42, mb4.0/5, South of Fiji Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like RIZ Raou Island, HAZ Te Kaha, PKGZ Pakihiroa, etc.

UCR 26 16:47:57.4, 1.3, 8.3, 8.32N, 82.81W, h25km, 4km, MW3.5

ISC 26 16:47:57.0, 1.3, 8.35N, 0.07, 82.82W, 0.03, h10km, n31, c=1920/45, 5C-2D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like NELY Ciudad Neily, DNV David, CSTBL De las Acacias, etc.

IDC 26 17:09:59.2, 4.3, 47.75N, 93.51W, h0km, mbmp2.4/1, ML1.0/1, Error ellipse: s-maj=65.3km s-min=26.3km az=59.0, Minnesota

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like ULM Lac du Bonnet, ULM 0.4mm, 0.3s, baz=148, slow=14, SNR=1.1, etc.

NEIC 26 17:24:21.9, 1.9, 18.2S, 0.1, 178.4W, 0.2, h493km, 11km, mb4.3/22, Error ellipse: s-maj=32.3km s-min=8.4km az=56.0

IDC 26 17:24:21.6, 1.2, 17.90S, 178.40W, h502km, 10km, mb3.2/9, mbmp4.0/10, Error ellipse: s-maj=19.5km s-min=16.3km az=145.0

ISC 26 17:24:20.8, 0.7, 18.08S, 0.10, 178.3W, 0.1, h500km, n43, c=554/45, mb4.0/18, Fiji Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like MSVF Nonsavu, MSVF Nonsavu, MSVF Nonsavu, etc.

ISC 26 17:24:20.8, 0.7, 18.08S, 0.10, 178.3W, 0.1, h500km, n43, c=554/45, mb4.0/18, Fiji Islands region

ISC 26 17:24:20.8, 0.7, 18.08S, 0.10, 178.3W, 0.1, h500km, n43, c=554/45, mb4.0/18, Fiji Islands region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC. Includes stations like BKZ Black Stump Fm, MRZ Mangatainoka R, TNKZ Takaka Hill, etc.

26d 18h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like OCHAL Djochal, PICAL Cerro El Cedra, WAKO Durika, etc.

ADC 26 17:40:32.6:0.7, 56:37N:163:91E, h0km, mb3.7/15, mbtmp3.8/18, ML4.1/2, MS2.9/8, Error ellipse: s-maj=24.1km s-min=13.4km az=159.0

KRSC 26 17:40:34.1:1.1, 55:39N:164.06E, h15km:20km, ML4.1, ISC 26 17:40:34.7:0.5, 56:17N:0.06:164.19E:0.04, h19km, n62, az=162, mb3.9/16, MS2.9/5, Komandarski Islands

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBTB Krutoberegovo, BKI Bering, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like NOA NORSAR Array B, HFS Hagfors, SCHO Scheferville, etc.

ADC 26 17:47:26.6:0.7, 2:69S:138:58E, h0km, mb4.0/9, mbtmp4.0/13, ML4.3/4, MS3.4/2, Error ellipse: s-maj=23.4km s-min=16.9km az=85.0

NEIC 26 17:47:28.2:2.2, 2:65S:0.1:138:58E:0.02, h10km:1km, mb4.4/15, Error ellipse: s-maj=19.6km s-min=3.5km az=176.0

DJA 26 17:47:30.7:0.7, 3:54:13:9E, h12km:7km, M4.5/7, mb4.9/4, MLV4.4/7, ISC 26 17:47:28.3:0.5, 2:73S:0.05:138:57E:0.04, h10km, n54, az=199.56, mb4.2/14, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, etc.

1712

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ASAR Alice Springs, CMAR Chiang Mai Arr, SONM Songoing Array, etc.

CATAC 26 18:00:08.7:0.8, 8:5N:5:8:3W, h21km:4km, M3.6/7, MLV3.6/7, Error ellipse: s-maj=11.6km s-min=10.3km az=91.8, confirmed

UCR 26 18:00:09.2:1.2, 8:38N:82:85W, h25km:3km, MW3.6, ISC 26 18:00:06.6:1.4, 8:28N:0.07:82:92W:0.04, h13km, n54, az=150.56, 2C, Panama-Costa Rica border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CDITO Canoas, CDITO Canoas, NELY Ciudad Neily, etc.

ADC 26 18:00:16.8:1.4, 50:99N:130:10W, h0km, mb3.5/2, mbtmp3.8/3, ML3.4/5, MS2.7/3, Error ellipse: s-maj=14.7km s-min=8.7km az=108.0

ISC 26 18:00:16.0:1.1, 51:03N:0.09:130:2W:0.1, h10km, n16, az=150.12, Queen Charlotte Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BBB Bella Bella, H0S1 DAWSON INLET T, H0S2 H0S2, etc.

MOS 26 18:06:28.5:1.1, 30:88S:177:49W, h10km, mb5.3/17, MS5.2/5, Error ellipse: s-maj=12.6km s-min=8.8km az=115.6

ADC 26 18:06:28.3:0.4, 30:85S:177:39W, h0km, mb4.9/23, mbtmp4.9/23, MS5.0/50, Error ellipse: s-maj=16.0km s-min=13.0km az=73.0

BUI 26 18:06:28.4, 30:93S:177:23W, h13km, mb5.8/31, mb5.2/41, MS5.2/44, MS7.5/0/46

NEIC 26 18:06:30.1, 30:91S:177:33W, h14km, ISC 26 18:06:30.1:2.1, 30:89S:0.10:177:33W:0.2, h10km:1km, az=115.6



mb5.2/154, Mw5.3/28, Error ellipse: s-maj=22.8km  
 s-min=14.9km az=69.0  
 NEIC 26 18:06:30.1, 31.015: 176.86W, h14km, Moment Tensor  
 Solution. Duration: 2s2 Moment tensor: Scale 10<sup>17</sup>Nm;  
 Mo:0.87; M1:0.01; M2:0.88; M3:0.15; M4:0.39; M5:0.43;  
 Fault plane solution: Mo1.06000x10<sup>17</sup> NP1:  
 p22.18.27000°, s37.75000°, t118.89000°. NP2:p3.36000°,  
 s57.59000°, t69.49000°. Principal axes: T 1.0261,  
 P1g7.0000°, Azm228.0000°; N 0.0649, P1g17.0000°,  
 Azm15.0000°, P -1.0910, P1g10.0000°, Azm108.0000°;  
 GCMT 26 18:06:34.1±0.1, 30.965S:0.01; 176.93W:0.01; h12km,  
 Mw5.4/151, Moment Tensor Solution s114.193;  
 s15.1c268; Duration: 1s2 Moment tensor: Scale 10<sup>17</sup>  
 Nm; Mo:1.01±0.1; M1:0.13±0.1; M2:0.88±0.1;  
 M3:0.24±0.03; M4:0.38±0.01; M5:0.86±0.03; Best double  
 couple: Mo1.35800x10<sup>17</sup> NP1:p2.07000°, s25.0000°,  
 t98.0000°. NP2:p3.18000°, s66.0000°, t86.0000°.  
 Principal axes: T 1.3460, P1g69.0000°, Azm20.0000°; N  
 0.0210, P1g3.0000°, Azm20.0000°; P -1.3710, P1g20.0000°;  
 Azm111.0000°; nst1 refers to body waves, cutoff=40s.  
 nst2 refers to surface waves, cutoff=50s. Triangular  
 moment-rate function

ISC 26 18:06:30.1±0.1, 31.015:0.014; 177.19W:0.05, h16km, 3km,  
 s150.0, s280.0/448, mb5.2/142, MSS.1/70, 12C5D, Kermadec  
 Islands region

Code	Station Name	A°	AZ°	Phase	ID	Time	Res
						h m s	ISC
GLKZ	Green Lake	187	340	P	Op	18 06 59.3	-2.1
GLKZ	Green Lake	187	340	S	Pn	18 07 22.0	-2.7
RAO	Raoul Island	1.88	340	P	Pn	18 06 59.1	-1.9
RAO	Raoul Island	1.88	340	Pn	Pn	18 06 59.3	-2.2
RAO	1µm, 0.3s, baz=150, slow=20, SNR=3.7			LR	LR	18 07 35.0	
RIZ	Raoul Island	1.89	340	P	Op	18 06 59.7	-1.9
RIZ	Raoul Island	1.89	340	S	Pn	18 07 22.9	-2.3
MXZ	Matakaoa Point	7.50	209	Pn	Pn	18 08 16.4	-2.5
MXZ	Matakaoa Point	7.50	209	P	Pn	18 08 16.5	-3.4
WMGZ	Waionatani S	7.68	207	P	Pn	18 08 18.3	-3.0
WMGZ	Waionatani S	7.68	207	S	Pn	18 08 19.5	-4.2
PKGZ	Pakihiroa	7.86	208	P	Pn	18 08 20.7	-3.5
HAZ	T. Kaha	7.89	210	P	Pn	18 08 51.9	-1.2
HAZ	T. Kaha	7.89	210	S	Pn	18 08 51.9	-3.1
PUZ	Puketiti	7.96	207	P	Pn	18 08 27.7	+1.5
GRZ	Great Barrier	8.04	228	P	Pn	18 08 27.7	-3.6
RUGZ	Raukumara Rang	8.11	210	P	Pn	18 08 56.3	-2.4
TWZ	Tauwhareparae	8.16	208	S	Pn	18 08 57.7	-2.2
TWZ	Tauwhareparae	8.16	208	S	Pn	18 08 57.7	-2.2
CNGZ	Carnagh Station	8.34	206	P	Pn	18 08 25.7	-4.7
CNGZ	Carnagh Station	8.34	206	S	Pn	18 10 01.7	-2.6
TKGZ	T. Karaka	8.44	208	P	Pn	18 08 29.4	-2.3
TKGZ	T. Karaka	8.44	208	S	Pn	18 08 29.4	-4.0
MWZ	Matawai	8.48	209	P	Pn	18 08 27.9	-4.4
OPRZ	Ohinepanea	8.54	216	P	Pn	18 08 31.0	-2.0
WCZ	Waipi Cavas	8.60	233	P	Pn	18 08 38.1	+4.2
URZ	Urewera	8.60	211	P	Pn	18 08 30.2	-3.8
URZ	1.2nm, 0.3s, baz=22, slow=8, SNR=17			Sn	Sn	18 10 03.8	-6.8
URZ	15nm, 0.3s, baz=113, slow=18, SNR=8.0			Sn	Sn	18 10 03.8	-6.8
URZ	Urewera	8.60	211	P	Pn	18 08 30.0	-4.0
RAGZ	Ramuri	8.67	209	P	Pn	18 08 31.0	-4.4
RIGZ	Rimuhau	8.71	207	P	Pn	18 08 41.5	+1.5
MKAZ	Moumatai	8.73	209	P	Pn	18 08 41.5	+1.5
OUZ	Omahuta	8.78	239	P	Pn	18 08 41.5	+1.5
OMRZ	Omania	8.83	215	P	Pn	18 08 41.5	+1.5
SNZ	Shannon Station	8.94	209	P	Pn	18 08 34.7	-3.9
RTZ	Ruatuhuna	8.96	211	P	Pn	18 08 33.8	-5.0
RTZ	Ruatuhuna	8.96	211	P	Pn	18 08 36.2	-2.7
TOZ	Tahuroa Road	9.16	209	P	Pn	18 08 38.8	-2.9
RAHZ	Raahi	9.16	209	P	Pn	18 08 38.6	-3.7
MTHZ	Maungataniwha	9.21	210	P	Pn	18 08 43.3	-2.0
NMHZ	Naumai	9.21	210	P	Pn	18 08 44.1	-3.9
BKZ	Black Stump Fm	9.62	211	P	Pn	18 08 44.1	-3.9
BKZ	Black Stump Fm	9.62	211	P	Pn	18 08 43.6	-4.4
MCHZ	McNeill	9.62	209	P	Pn	18 08 43.6	-4.4
NTVZ	North Tongariri	9.95	214	P	Pn	18 08 50.9	-1.5
TMVZ	T. Maari	9.95	214	P	Pn	18 08 48.8	-3.7
ETVZ	East Tongariri	9.96	214	P	Pn	18 08 51.1	-1.6
NNVZ	North Ngauruhoe	10.00	214	P	Pn	18 08 54.6	+1.4
SNVZ	South Ngauruhoe	10.04	214	P	Pn	18 08 54.6	+1.4
NGZ	Ngauruhoe	10.04	214	P	Pn	18 08 56.8	+3.0
KRHZ	Kereru	10.07	210	P	Pn	18 08 50.4	-3.7
TUVZ	Tukino	10.09	213	P	Pn	18 08 55.7	+1.3
FWVZ	Far West T-bar	10.13	214	P	Pn	18 08 53.7	-1.3
WNVZ	Whianhoa	10.16	213	P	Pn	18 08 54.8	-0.7
PNHZ	Puketi	10.17	210	P	Pn	18 08 52.9	-5.8
VRZ	Vera Road	10.42	217	P	Pn	18 09 02.9	+4.1
TSZ	Takapari Road	10.59	210	P	Pn	18 08 55.8	-5.5
POWZ	Post Office Ro	10.95	210	P	Pn	18 09 05.5	-0.6
BFZ	Birch Farm	11.00	207	Pn	Pn	18 09 02.1	-4.7
GFZ	Griffith	11.04	216	P	Pn	18 09 03.7	-5.9
MRZ	Mangatainoka R	11.25	209	P	Pn	18 09 05.3	-4.9
HOWZ	Holdsworth Sta	11.48	209	P	Pn	18 09 09.0	-4.4
OGWZ	Otaki Gorge	11.56	210	P	Pn	18 09 10.9	-3.5
KIW	Kapiti Island	11.71	211	P	Pn	18 09 12.5	-3.9
DUWZ	D'Urville Isla	12.12	214	P	Pn	18 09 18.5	-3.6
BHW	Barinui Head	12.17	210	P	Pn	18 09 24.4	-1.9
TCW	Tory Channel	12.27	212	P	Pn	18 09 19.4	-4.8
TUWZ	Tuamarina	12.60	212	P	Pn	18 09 24.1	-4.5
TUWZ	Tuamarina	12.60	212	P	Pn	18 09 24.7	-3.9
QRZ	Quartz Range	12.83	218	P	Pn	18 09 31.5	-0.3
MRNZ	Matariki Terra	13.14	215	P	Pn	18 09 35.0	-1.1
MRNZ	Matariki Terra	13.14	215	P	Pn	18 09 33.7	-2.2
THZ	Topohouse	13.34	214	P	Pn	18 09 35.8	-3.1
THZ	Topohouse	13.34	214	P	Pn	18 09 33.9	-4.9
KHZ	Kahutara	13.57	211	P	Pn	18 09 37.8	-4.1
KHZ	Kahutara	13.57	211	P	Pn	18 09 35.9	-6.0
MSVF	Nonsau	13.92	341	P	Pn	18 09 46.2	-0.7
MSVF	0.5nm, 0.3s, baz=149, slow=13, SNR=4.0			LR	LR	18 13 41.9	
MSVF	comp=Z, 2µm, 18.6s, baz=162, slow=32			LR	LR	18 09 51.6	+0.7
GVZ	Greta Valley S	14.23	210	P	Pn	18 09 47.0	-3.6
GVZ	Greta Valley S	14.23	210	P	Pn	18 09 51.3	-2.4
LTZ	Lake Taylor	14.43	213	P	Pn	18 09 48.7	-5.0
AMCZ	Amberley	14.57	211	P	Pn	18 09 56.3	+0.7
INZ	Inchbonnie	14.78	215	P	Pn	18 09 57.5	-0.9
INZ	Inchbonnie	14.78	215	P	Pn	18 09 55.5	-3.0
OXZ	Oxford	14.96	212	P	Pn	18 09 56.5	-4.4
OXZ	comp=Z, 1.21nm, 0.9s			Iamb	Iamb	18 10 10.2	
MQZ	McQueen's Vall	14.99	210	P	Pn	18 09 58.9	-2.4
RAOZ	Rakaka	15.23	211	P	Pn	18 10 01.1	-3.3
MHCZ	Mount Hutt	15.34	212	P	Pn	18 10 02.1	-3.2
WVZ	Waitha Valley	15.39	215	P	Pn	18 10 02.8	-3.7
RPZ	Rata Peaks	15.71	213	Pn	Pn	18 10 04.1	-6.6
RPZ	comp=Z, 2.9nm, 0.3s, baz=49, slow=4.9, SNR=17			Sn	Sn	18 12 49.8	-15
RPZ	comp=Z, 1.3nm, 0.3s, baz=0, slow=20, SNR=3.7			LR	LR	18 16 40.9	
RPZ	comp=Z, 9µm, 18.7s, baz=34, slow=39			LR	LR	18 10 07.3	-5.1
ARCZ	Arundel	15.84	212	P	Pn	18 10 14.8	-1.9
FOZ	Fox Glacier	16.18	216	P	Pn	18 10 25.1	-0.5
ODZ	Otauhu Downs	16.19	217	P	Pn	18 10 27.9	-1.0
ONTN	Ouen Toro	17.13	297	P	Pn	18 10 30.0	-0.6
DZM	Mont Dzumac	17.13	297	ePn	Pn	18 10 30.8	+0.2
DZM	Mont Dzumac	17.13	297	ePn	Pn	18 10 30.8	+0.2
DZM	comp=Z, 365nm, 1.4s			LR	LR	18 14 24.6	
DZM	comp=Z, 12µm, 25.4s			eLR	LR	18 10 31.9	+1.3
DZM	Mont Dzumac	17.13	297	Pn	Pn	18 10 31.9	+1.3
DZM	comp=Z, 0.9nm, 0.3s, baz=117, slow=18, SNR=11			LR	LR	18 15 33.1	
DZM	comp=Z, 8µm, 20.2s, baz=158, slow=32			LR	LR	18 10 42.2	-1.6
MLZ	Mavora Lakes	18.35	215	P	Pn	18 10 43.5	-1.3
RAR	Rarotonga	18.42	62	P	Pn	18 10 40.6	-4.2
RAR	Rarotonga	18.42	62	P	Pn	18 10 40.6	-4.2
RAR	comp=Z, 44nm, 0.7s, baz=228, slow=8.9, SNR=7.7			LR	LR	18 13 48.6	-2.2
RAR	comp=Z, 19nm, 0.6s, baz=242, slow=15, SNR=2.6			LR	LR	18 17 07.2	
RAR	comp=Z, 6µm, 19.7s, baz=276, slow=35			P	P	18 10 43.5	-1.3
RAR	Rarotonga	18.42	62	P	Pmax	18 10 43.5	-1.3

WHZ	Wether Hill Ro	18.71	210	P	P	18 10 48.7	-0.2
TBI	Tubuai	25.81	80	eP	P	18 12 04.6	+4.2
TBI	comp=Z, 842nm, 22.8s			eS	S	18 16 28.2	-0.9
TBI	comp=Z, 2.0µm, 25.2s			eLR	LR	18 18 14.9	
TBI	comp=Z, 4µm, 21.2s			eLR	LR	18 18 33.4	
ARMA	Armidale	26.77	263	P	P	18 12 11.3	+1.9
ARMA	Armidale	26.77	263	P	P	18 12 11.4	+2.0
PPT2	Papeete	28.41	68	eP	P	18 12 21.6	-2.5
PPT2	comp=Z, 1.71nm, 24.0s			eS	S	18 17 07.7	-3.1
PPT2	comp=Z, 4µm, 24.8s			eLR	LR	18 19 27.7	
PPT2	comp=Z, 3µm, 21.0s			eLR	LR	18 19 39.9	
PPT	Papeete	28.42	68	LR	LR	18 21 54.7	
EIDS	Eidsvold	28.46	273	P	Iamb	18 12 24.1	-0.4
EIDS	Eidsvold	28.46	273	P	Iamb	18 12 27.0	
EIDS	comp=Z, 5.9nm, 1.2s			P	P	18 12 24.8	+0.3
CAN	Canberra	28.54	252	P	Iamb	18 12 25.9	+0.8
CAN	Canberra	28.54	252	P	Iamb	18 12 28.4	
CAN	comp=Z, 47nm, 1.1s			Pmax	Pmax	18 12 25.9	+0.8
YNG	Young	29.07	254	P	P	18 12 31.0	+1.1
HNR	Horlira	30.23	310	LR	LR	18 22 40.0	
MOR	Moortlands	30.52	238	P	P	18 12 43.0	+0.4
TOO	Tooolangi	31.36	248	P	P	18 12 48.6	-1.5
TOO	Tooolangi	31.36	248	P	P	18 12 50.1	0.0
TOO	comp=Z, 1.9nm, 1.1s			Pmax	Pmax	18 12 48.6	-1.5
TOO	Tooolangi	31.36	248	P	P	18 12 48.6	-1.5
CMSA	Cobar Meteorol	31.63	259	P	P	18 12 52.9	+0.5
QLP	Quilpie	33.97	268	P	P	18 13 13.4	+0.4
QLP	comp=Z, 1.17nm, 1.5s			P	P	18 13 13.4	+0.4
CTAO	Charters Tower	34.59	280	P	P	18 13 18.3	-0.1
CTAO	Charters Tower	34.59	280	P	P	18 13 18.3	-0.1
CTAO	comp=Z, 1.07nm, 1.2s			Pmax	Pmax	18 13 18.3	-0.1
STKA	Stevens Creek	35.02	258	P	P	18 13 21.9	-0.2
STKA	Stevens Creek	35.02	258	P	P	18 13 22.8	+0.8
STKA	comp=Z, 2.7nm, 1.5s			P	P	18 13 22.3	+0.3
STKA	Stevens Creek	35.02	258	P	P	18 12 54.3	-1.3
STKA	comp=Z, 6.0nm, 1.1s, baz=99, slow=13, SNR=24			S	S	18 22.0	-1.3
STKA	comp=Z, 1.6nm, 0.7s, baz=156, slow=20, SNR=1.5			LR	LR	18 27 31.4	



Code	Station Name	Δ°	AZ°	Phase	ID	ISC	h	m	s	ISC	Time	Res
AKT	KLMR	comp=Z,13nm,1.2s		pmax	pmax							
AKT	Akhty	142.67 299		ePKIKP	PKPpdf		18	26	02.0	-0.6		
MAK	MAK	comp=Z,18nm,1.2s		pmax	pmax							
MAK	Makhachkala	142.77 301		ePKIKP	PKPpre		18	25	07.1	-0.4		
MAK	MAK			eSS	SS		18	33	07.4			
MAK	MAK			pmax	pmax		18	47	41.0	-7.9		
GN	Garni	comp=Z,118nm,1.4s		pmax	pmax							
GN	Garni	144.97 297		ePKIKP	PKPbc		18	26	06.1	+0.1		
GN	Garni	144.97 297		ePKIKP	PKPbc		18	26	06.1	+0.0		
VRH	Novokhopyorsk	144.97 316		ePKIKP	PKPab		18	26	04.6	-0.8		
VRH	VRH			pmax	pmax							
MOS	Moscow	comp=Z,10µm,1.0s		pmax	pmax							
MOS	Moscow	145.24 325		iPKIKP	PKPbc		18	26	03.6	-2.6		
MOS	MOS			pmax	pmax							
GOF	Gofitskoye	comp=Z,97nm,1.3s		pmax	pmax							
GOF	Gofitskoye	145.72 306		ePKIKP	PKPpdf		18	26	07.6	0.0		
FI	FI	145.97 340		ePKIKP	PKPpdf		18	26	07.1	-0.4		
FINES	FINES	145.97 340		ePKIKP	PKPpdf		18	26	06.9	-0.6		
FINES	FINES	145.97 340		ePKIKP	PKPpdf		18	26	07.6	+0.1		
KBZ	Khabaz	comp=Z,30nm,0.9s,baz=44,slow=3.6,SNR=70		ePKIKP	PKPbc		18	26	08.7	-0.3		
KBZ	Khabaz	146.04 303		ePKIKP	PKPbc		18	26	08.7	-0.3		
LPSR	LPSR	comp=Z,38nm,1.2s,baz=79,slow=7.7,SNR=37		ePKIKP	PKPpdf		18	26	07.1	-0.8		
LPSR	LPSR	146.04 320		ePKIKP	PKPpdf		18	26	07.1	-0.8		
LPSR	LPSR			pmax	pmax							
OB	Obninsk	comp=Z,20nm,1.0s		pmax	pmax							
OB	Obninsk	146.08 325		ePKIKP	PKPpdf		18	26	08.0	+0.1		
OB	Obninsk	146.08 325		ePKIKP	PKPpdf		18	26	07.7	+0.2		
OB	OB			pmax	pmax		18	48	20.4	-5.1		
OB	OB	comp=Z,173nm,1.7s		pmax	pmax							
OB	OB	comp=Z,96nm,1.3s		pmax	pmax							
OB	OB			MLR	MLR							
KIV	Kislovodsk	comp=Z,403nm,19.0s		pmax	pmax							
KIV	Kislovodsk	146.15 304		ePKIKP	PKPpdf		18	26	08.5	0.0		
KIV	Kislovodsk	146.15 304		ePKIKP	PKPpdf		18	26	06.0	-2.6		
SHA1	Shidzhatmaz	comp=Z,25nm,1.1s		pmax	pmax							
VORR	Voronezh	146.21 303		iPKIKP	PKPpdf		18	26	06.8	-2.0		
VORR	VORR	146.26 318		ePKIKP	PKPbc		18	26	09.5	0.0		
VORR	VORR			pmax	pmax							
VSR	Storozhevo	comp=Z,69nm,1.1s		pmax	pmax							
VSR	VSR	146.47 318		ePKIKP	PKPpdf		18	26	07.7	-1.0		
VSR	VSR			pmax	pmax							
VORD	Divnogorie	comp=Z,40nm,1.0s		pmax	pmax							
VORD	VORD	146.49 317		ePKIKP	PKPpdf		18	26	07.9	-0.8		
VORD	VORD			pmax	pmax							
ERBR	Yeremizino-Bor	comp=Z,40nm,1.1s		pmax	pmax							
ERBR	ERBR	147.35 307		iPKP2	PKPbc		18	26	13.4	+0.6		
ERBR	ERBR			pmax	pmax							
SOC	Sochi	comp=Z,146nm,1.1s		pmax	pmax							
SOC	SOC	148.34 304		ePKIKP	PKPpdf		18	26	11.2	-0.9		
SOC	SOC			ePPP	PPP		18	29	47.5			
SOC	SOC			eSS	SS		18	32	59.6			
SOC	SOC			eSS	SS		18	48	48.8	-3.4		
NB2	NORSAR Subarra149.47 352	comp=Z,2.6s		ePKIKP	PKPbc		18	26	18.1	+0.2		
NB2	NORSAR Subarra149.47 352	PKP		ePKIKP	PKPbc		18	26	18.1	+0.2		
NB2	NORSAR Subarra149.47 352	PKP		ePKIKP	PKPbc		18	26	18.1	+0.2		
NOA	NORSAR Array B 149.47 352	comp=Z,13nm,1.0s,baz=15,slow=7.7,SNR=22		ePKIKP	PKPbc		18	26	17.1	-0.8		
NOA	NORSAR Array B 149.47 352	PKPbc		ePKIKP	PKPbc		18	26	17.1	-0.8		
ANN	Anapa	comp=Z,13nm,1.0s,baz=15,slow=7.7,SNR=22		ePKIKP	PKPpre		18	26	17.2			
ANN	ANN	149.68 307		ePKIKP	PKPpre		18	26	17.2			
ANN	ANN			pmax	pmax							
HFS	Hagfors	comp=Z,51nm,0.8s		pmax	pmax							
HFS	Hagfors	149.99 349		ePKIKP	PKPbc		18	26	18.7	-0.5		
HFS	Hagfors			pmax	pmax							
MNK	Minsk	comp=Z,21nm,1.0s,baz=15,slow=1.6,SNR=20		ePKIKP	PKIKP		18	26	21.2	0.0		
MNK	Minsk	150.47 330		ePKIKP	PKIKP		18	26	21.2	0.0		
MNK	Minsk			pmax	pmax							
MNK	Minsk	comp=N,12nm,0.8s		pmax	pmax							
MNK	Minsk	comp=Z,53nm,1.1s,baz=49		pmax	pmax							
MNK	Minsk			PP	PP		18	29	56.0	-0.3		
MNK	Minsk			PPP	PPP		18	33	18.6			
MNK	Minsk			SSKdf	SSKdf		18	33	23.7	+1.7		
MNK	Minsk			SS	SS		18	33	23.7	+1.1		
MNK	Minsk			iSSS	SSS		18	55	06.0			
MNK	Minsk			iLO	LO		18	26	07.3			
MNK	Minsk			iPKIKP	PKIKP		18	26	21.2	0.0		
MNK	Minsk			iPKIKP	PKIKP		18	26	21.2	0.0		
MNK	Minsk			PPP	PPP		18	29	56.0			
MNK	Minsk			PPP	PPP		18	33	18.6			
MNK	Minsk			PPP	PPP		18	33	23.7			
MNK	Minsk			pmax	pmax							
MNK	Minsk	comp=N,12nm,0.7s		pmax	pmax							
MNK	Minsk	comp=N,12nm,0.8s		pmax	pmax							
MNK	Minsk	comp=Z,53nm,1.1s		pmax	pmax							
NACGM	Naroch	comp=Z,500nm,20.0s		pmax	pmax							
KONO	Kongsberg	150.66 331		ePKIKP	PKIKP		18	26	21.6	0.0		
KONO	Kongsberg	151.01 353		ePKIKP	PKPbc		18	26	21.4	-0.2		
BEIL	Beilmer	151.01 353		ePKIKP	PKIKP		18	26	21.6	0.0		
SIM	Simferopol'	151.79 286		ePKIKP	PKIKP		18	26	24.9	+0.3		
SIM	Simferopol'	151.88 308		ePKIKP	PKPbc		18	26	24.0	-0.1		
SIM	Simferopol'			pmax	pmax							
HWQ	Hawqa	comp=Z,38nm,1.1s		pmax	pmax							
GHAJ	Ghor Haditha	151.98 286		ePKIKP	PKIKP		18	26	25.9	+0.9		
RCY	Rachaya	152.03 279		ePKIKP	PKPab		18	26	32.6	-1.6		
SHBL	Chebba	152.03 284		ePKIKP	PKIKP		18	26	25.4	+0.1		
BHL	Bhannes	152.09 285		ePKIKP	PKIKP		18	26	25.5	+0.1		
AKASG	Malin Array Be	152.20 284		ePKIKP	PKIKP		18	26	25.7	+0.1		
AKASG	Malin Array Be	152.22 323		ePKIKP	PKPbc		18	26	24.0	-0.6		
AKASG	Malin Array Be	152.23 323		ePKIKP	PKPbc		18	26	24.1	-0.5		
KIEV	Kiev	comp=Z,14nm,0.9s,baz=49,slow=3.5,SNR=31		ePKIKP	PKPbc		18	26	23.6	-1.0		
KIEV	Kiev	152.23 323		ePKIKP	PKPbc		18	26	23.6	-1.0		
KIEV	Kiev	152.23 323		ePKIKP	PKPbc		18	26	23.6	-1.0		
DORL	Deir Qamar	152.25 284		ePKIKP	PKIKP		18	26	25.9	+0.2		
IMAI	Imai	152.35 283		ePKIKP	PKPbc		18	26	26.8	+0.9		
BRTR	Reskin Array B	153.51 298		ePKIKP	PKPpdf		18	26	19.8	-0.6		
BRTR	Reskin Array B	153.51 298		ePKIKP	PKPpdf		18	26	20.9	+0.5		
BRTR	BRTR	comp=Z,4.9nm,1.0s,baz=63,slow=0.6,SNR=4.9		ePKIKP	PKPbc		18	26	28.9	+0.8		
BRTR	BRTR	153.51 298		ePKIKP	PKPbc		18	26	28.9	+0.8		
BRTR	BRTR			pmax	pmax							
MILM	Milestii Mici	comp=Z,4.7nm,0.9s,baz=126,slow=3.7,SNR=5.8		ePKIKP	PKPbc		18	26	39.6	-0.9		
MILM	Milestii Mici	154.46 316		ePKIKP	PKPpdf		18	26	18.6	-2.6		
MILM	Milestii Mici	154.46 316		ePKIKP	PKPpdf		18	26	19.0	-2.2		
MILM	MILM			MLR	MLR							
BURAR	Bucovina Array	comp=Z,500nm,20.0s		pmax	pmax							
BURAR	Bucovina Array	156.15 320		ePKIKP	PKPab		18	26	50.7	-0.7		
KOLS	Koloniche sedl	156.83 326		ePKP2	PKPbc		18	26	54.5	+0.4		
KOLS	Koloniche sedl	156.83 326		ePKP2	PKPbc		18	26	54.5	+0.4		
MORC	Moroc Berouy	158.24 334		ePKIKP	PKPab		18	27	0			



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, CMAR Chiang Mai Arr, CMAR South Pole Qui.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, QSPA South Pole Qui, SNAA Snaae, H03S2 Juan Fernandez, H03S1 Juan Fernandez, H03S3 Juan Fernandez, FINES FINES Array B, HFS Hagfors.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, KAPI Kappang, TGY Tagaytay City, JNU Nakatsue, CMAR Chiang Mai Arr, ZALV Zalesovo Beam, KURBB Kurchatov Arr, QSPA South Pole Qui, BVAR Borovoye Array.

JMA 26 19:24:52.0±1.2, 23.8N, 0.6±1.22E, h43km, MV3, 1/14, NEAR IGHIGAKIJIMA ISLAND, TAP 26 19:24:52.7±1.7, 23.73N, 1.23±0.00E, h46km, ML3.7, D

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like E0S4 E0S4, JYNG JYNG, Y0J Yonaguni jima, E0S3 E0S3, HATJ Hateruma jima, IRIF Iriomote-Funau, E0S2 E0S2, JKRS Kuro-shima, JKRS JKRS, TEVL Yanliau Villag, EAHA EAHA, JIJ Ishigaki jima, SHU Shoufeng, EWUT EWUT, ETL Fush Village, TWD Chiawan, TEGC Jichi Village, ENA Nanau, ENA Suao, NACB Nanganchiao, NACB Nanganchiao, TWC Suao, TWC Tongmen, ETM Shilin, ESL Shilin, EGPH Guangfu, EGPH EGPH, HGSD Ruisui, ETLH Xiulin Townshi, WARB Fenglin Townsh, LXIB Xiulin Townshi, ECBN Changbin, ECBN ECBN, NDS Dongshan, EGS Dongshan, EHYH Wanrong, EHYH EHYH, JISG Ishigakijimahi, EHYH EHYH, LATG Datong, CHKH Chenggong, CHKH CHKH, TWE Neicheng, TWE Santiao Chiao, EYUL Yuli, EYUL Yuli, ENT1 Nioudou, ENT1 ENT1, YULB Yuli, YULB Yuli.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like YULB Yuli, TWF1 TWF1, NNSB Datong, NNSB NNSB, WHF Hehuan Shan, WHF WHF, TIPP Shuangxi, NNS Nan Shan, FUSH Fushanzhiwuyua, FULB Fuli, OWD Renai, FUSH Fushou, FUS FUS, WVDT WVDT, WVDT WVDT, SX11 Grass Mountain, NWLW Ulwai, EDH Donghe, WUSB Renai, WUSB WUSB, TWT Tachien, EHD Haiduan, FUS FUS, NWF Wu-fen Shan, WFSB Wu-fen Shan, YHNB Yeheng, YHNB Yeheng, TDCB Techu, NSK Sanguang, NSK NSK, TWA Mucha, TNOU National Taiwa, TNOU TNOU, TATO Taipei, SSSL Suanglung, SSSL Suanglung, SSSL Suanglung, JT Tarama, ELDTW Lidau, ELDTW ELDTW, LONT Longtian, SMLT Sun Moon Lake, YM01 YM01, WGS Weigang Elemen, NFF Nangang Townshi, NFF NFF, YM08 YM08, WHP Taichung City, WHP WHP, ZUZH Zhuzhou, WHYT Xinyi Township, KSHI Guanxi Townshi, KSHI KSHI, TTT Taitung, TTN TTN, ANP Anpu, TWGBT Beinan, TWGBT Beinan, TWST Kuangyingshan, TWST Pingang, TWG TWG, TWY Chenhua, NTST NTST, ALS Alishan, LIQB Emel, NSHT Nanjiang, PCYT Pengchiayu, SYTH Taoyung, WNT Mingjian, WNT WNT, TW01 Liyutan, CHNS Taoulung, TCU Taichung, LAY Lan-yau, NMLH Miaoli, LYUB Lan-yau, ELCB Taimali, WCKO Fanlu, TPUB Ta-pu, TPUB Ta-pu, WPK Gukung, WTP Taichung, CHN1 Nanshi, TWK Hsiinyang, SNST Tainan City, SSND Sandimen, WFK Fankang, EAST Anshuo, JM1 Miyako jima 2, MASBT Mashibuluo, SCST Cishan, ICHU Yijhu, SLU Shizi, WSF Shzu, WSL Shulin Townsh, WSL WSL, SCZT Fangiung, TFSK Chigu Township, WDCJ Dungeji, PHNG Peng-hu, PHNG Penghu, YVUC YVUC, PTMZ Houxiangcun, XPS Dashiqiu.

IDC 26 19:25:12.8±1.8, 30.88S, 177.38W, h0km, mb3.8/3, mbtmp3.8/3, Error ellipse: s-maj=45.3km s-min=25.5km az=82.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RAO Raoul Island, URZ Urewera, ASAR Alice Springs, WRA Warramunga Arr, SNAA Snaae, H10S2 ASCENSION HYDR87, H10S3 ASCENSION HYDR87, H10N3 ASCENSION HYDR88, H10N1 ASCENSION HYDR88, H10N2 ASCENSION HYDR88, FINES FINES Array B.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KRSC 26 19:25:50.9±1.0, 55.98N, 164.17E, h16km±18km, M14.0, Komandorsky Islands region, KBTR Krutoberegovo, KBG Krutoberegovo, KBG KBG, BKI Bering.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like BKI Bering, SMKR Semkarok, SMKR SMKR, BDR Baidaraya, SRKR Sorokina, ZLW Zelanya, CIRR Isirik, BZGR Bezmyanyani-Gr, MKZ Mys Kozlova, MKZ MKZ, KLY Klyuchi, KLY KLY, BZVR Bezmyanyani-We, KIRR Kirishev, KPT Kopyto, KMNR Kamenistaya, TUMD Tunyok D, KOZ Kozlovskaya, SRDR Sredinnyy, SRDR SRDR, ESO Eso, SPN SPO Mys Shipunski, NLC Nalychevo, SDRL Sedlovina, SMAR Somma, KRK Arik, AVH Avacha, UGLR Ulovaya, KOK Koryaka, KRMR Karymshinskiy, RUS Russkaya, GRL Gorelyy, TSVF Tsvetkovka, ASAK Asacha.

IDC 26 19:30:28.3±3.1, 92.82S, 165.72E, h59km±32km, mb3.5/8, mbtmp3.9/10, ML3.9/2, MS3.4/2, Error ellipse: s-maj=34.5km s-min=24.8km az=83.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HNR Honiara, DZM Mount Daumac, RAO Raoul Island, STKA Stephens Creek, WRA Warramunga Arr, ASAR Alice Springs, GUMO Guamo, CMAR Chiang Mai Arr, QSPA South Pole Qui, SONM Songoing Array, ILAR Eielson Array, MKAR Makanchi Array.

UCR 26 19:36:57.3±1.3, 8.35N, 82.81W, h24km±3km, MV3.7, 3/9A 26 19:36:57.7±1.7, 8.39N, 82.83W, h19km±3km, MV3.6, CATAC 26 19:36:58.0±0.7, 8°N, 5°8'30"W, h17km±4km, M3.7/9, MLV3.7/9, Error ellipse: s-maj=10.2km s-min=9.9km az=79.0, confirmed

ISC 26 19:36:57.4±1.0, 8.38N, 0.03±82.85W, 0.02, h18km±3km, n90, ±18°10'2, 2C-6D, Panama-Costa Rica border

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like LESP3 La Esperanza, LESP3 LESP3, COTO Canos, COTO COTO, LIMO3 Limones, LIMO3 LIMO3, LMNES Limones, NELY Ciudad Neily, MCANO Manzana, Boque, FITO Goffito, FITO FITO, DVD David, MLIR3 Monte Lirio, C, MLIR3 MLIR3, EDAD Goffito, PEDES Pedregal, Chir, PEDES PEDES, LOCO3 Loma Colorado, CLLRA Cordillera, CLLRA CLLRA, BRU2 Volcan, BRU2 Volcan, BRU2 Volcan, BRU2 Volcan, BRU2 Volcan, WCTO San Vito, SCLRA Santa Clara, W, LOMA3 Las Lomas, Chi, PTAR3 Potrerillos Ar, PTAR3 PTAR3, BCSF Paso Ancho, BCSF BCSF, BOTLY Boquete Panama, BQSF3 Alto Boquete, BQSF3 BQSF3, GUAL3 Gualaca, Chiri, GUAL3 GUAL3, EDPP Potrero Grande, PBNO Pueblo Nuevo, PANP Palmor Norte, RBALA Bar, GURE Benos Aires, DRKO Durika, DRKO Durika, DRKO Durika, DRKO Durika, EDPE Pejibaye, OCHAL Ochochal, OCHAL Ochochal, PDCAN Manzana, Fuen, SAJE San Jernim, BRIBI Bribrri, PIEC Cerro El Cedra, MESAS La Mesa, Verag, MESAS MESAS, GMAL Guarumal, Vera, GMAL Guarumal, Vera, RSUS3 Rio de Jesus, RSUS3 RSUS3, VINA Juan Vinas, PISJ San Jernim, LCR2 La Lucha 2, LCR2 La Lucha 2, LCR2 La Lucha 2, VCTC VCTC, Calle Va, PICV Ph Pirrs, ABRB Las Abres/San, ABRB ABRB, RACH San Farael, Vo.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PARRIA, CVTV, CVTO, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GCAM, GCAM G?zelcam!, BUHA, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PATR, PAVE, PAVE, etc.

SKHL 26 19:44:49.6.2.1, 15.38S, 173.57W, h0km, mb3.9/2, mbtm3.9/3, Error ellipse: s-maj=66.4km s-min=50.7km

az=40.0, Kermadec Islands

IDC 26 20:19:54.8.3.4, 31.16S, 177.26W, h0km, mb3.4/2, mbtm3.5/3, ML3.3/1, Error ellipse: s-maj=80.9km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SHO, SHO, SHO, etc.

ASAR Alice Springs 43.00 26Z Op P 20 03 39.9 -1.3

IDC 26 20:26:22.1.1.9, 24.26S, 179.90E, h522km, 20km, mb3.3/1, mbtm4.2/4, Error ellipse: s-maj=18.2km

IDC 26 19:44:49.6.2.1, 15.38S, 173.57W, h0km, mb3.9/2, mbtm3.9/3, Error ellipse: s-maj=66.4km s-min=50.7km

WRA Warramunga Arr 43.97 27Z P 20 03 43.6 +0.9

IDC 26 20:26:22.3.1.2, 34.4S, 0.1x, 180.0E, 0.2, h522km, 8km, mb4.4/2, Error ellipse: s-maj=20.6km s-min=17.1km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA, ASAR, QSPA, BRTR, etc.

QSPA South Pole Qui 60.35 180 P 20 05 44.4 0.0

IDC 26 20:26:21.3.0.5, 24.31S, 0.08x, 179.93E, 0.08, h517km, n55, i=1906/57, mb4.2/4, Az, South of Fiji Islands

ISK 26 19:53:08.9, 38.46N, 26.36E, h12km, ML2.2/12

SNET 26 19:56:56.7.1.1, 13.11N, 89.63W, h33km, ML3.6

MSVF Nonsavu 6.78 345 P 20 28 05.9 -0.3

THE 26 19:53:09.6, 38.2N, 2.2x, 2.6E, h3km, 7km, ML2.5/5, MLh2.5/5

CATAC 26 19:56:56.7.0.5, 13.1N, 3.9W, h23km, 3km, M3.7/20, MLv3.7/20, Error ellipse: s-maj=6.4km s-min=3.9km

DZM Mont Dringus 12.60 277 P 20 29 08.5 +2.2

AFAD 26 19:53:09.1, 38.44N, 26.34E, h7km, 4km, ML2.1

CGC 26 19:56:58.1.4.1, 13.21N, 89.67W, h35km, 65km, MD3.9, ML3.6, MW3.2

URZ Urewera 14.11 189 P 20 29 22.1 +0.3

ATH 26 19:53:09.5, 38.45N, 26.33E, h16km, 3km, ML2.5/3, Manual Solution by M.Kolligri First location: 2019/06/26

ISIC 26 19:56:58.1.5.1, 13.20N, 0.06x, 89.55W, 0.04, h25km, 13km, n67, i=1900/81, ID, El Salvador

AS31 Alice Springs 41.91 261 P 20 33 26.4 -0.1

Manual Solution by M.Kolligri First location: 2019/06/26 19:54:49, This location: 2019/06/25 21:02:59 ML

LALI Alcaldia de L 0.36 38 eP Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 33 26.4 -0.2

Amplitudes are expressed in micrometers. All distances are expressed in degrees 1 km; Longitude uncertainty: 1 km

LALI Alcaldia de L 0.36 38 i/S Pn 19 57 07.5 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

ISIC 26 19:53:09.4.0.8, 38.45N, 0.02x, 26.35E, 0.02, h15km, 6km, n37, i=056/62, Aegean Sea

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

Code Station Name Az, Phase ID, Time, Res

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CESE eme 0.13 198 P Pn 19 53 12.7 -0.3

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

EAGZ Marmaro, Chios 0.21 295 P Pn 19 53 14.3 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

KARB zmir-Karabur 0.21 113 P Pn 19 53 14.3 +0.0

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

URLA Izmir 0.21 116 P Pn 19 53 17.6 -0.3

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

URLA Izmir 0.21 116 S Pn 19 53 17.3 -0.3

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

URLA Izmir 0.21 116 S Pn 19 53 18.0

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 14.9 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 15.0 +0.2

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0

CHOS Chios island 0.24 254 P Pn 19 53 18.5 +0.1

LALI Alcaldia de L 0.36 38 P Pn 19 57 07.6 -0.7

ASAR Alice Springs 41.91 261 P 20 39 05.3 -2.0



**MMAI** Mount Meron Ar 147.81 294 PKPbc PKPbc 20 45 09.1 +0.7  
 comp=Z,1.4nm,0.5s,baz=72,slow=5.4,SNR=8.4

**EKA** Eskdalemuir Ar 148.93 3 PKPbc PKPbc 20 45 09.5 -0.8  
 comp=Z,0.7nm,0.4s,baz=348,slow=2.8,SNR=13

**CLL** Collim 151.23 343 PKPbc PKPbc 20 45 15.6 -0.2

**CLL** Collim 151.23 343 PKPbc PKPbc 20 45 15.8 0.0  
 comp=Z,6.0nm,0.7s

**NEIC 26 20:27.24.1.3.38.14N:0.05:72.93E:0.08,**  
 h119km,11km,mB4,4/6, Error ellipse: s-maj=10.5km  
 s-min=5.8km az=60.0

**IDC 26 20:27.25.9.7.29N:72.86E, h128km,51km,mb3.6/7,**  
 mbmp4.2/12, Error ellipse: s-maj=59.8km s-min=24.8km  
 az=8.0

**NNC 26 20:27.27.5.2.7.38.50N:72.76E, h180km,32km,mb3.5,**  
 mpv4.3, Error ellipse: s-maj=28.6km s-min=14.2km  
 az=12.0

Code	Station Name	A°	AZ°	Phase ID	Time	Res
DRK	Karamyk	1.64	330	Op	20 27 53.0	+1.2
DRK	DRK	2.08	11.6	S	20 28 11.6	-3.2
BTK	Batken	2.55	322	S	20 28 04.7	+1.7
BTK	BTK	2.55	322	S	20 28 34.3	-0.1
SMJ	Simiganj	3.09	282	S	20 28 10.5	+0.5
SMJ	SMJ	3.09	282	S	20 28 15.4	+1.4
ARSB	Arslanbob	3.26	2	S	20 28 12.6	+0.3
ARSB	Arslanbob	3.26	2	S	20 28 47.6	-3.3
AML	Almayashu	4.11	9	P	20 28 24.7	+0.9
NRN	SNR=314	4.14	35	P	20 28 24.1	0.0
URCH	Uchtor	4.35	16	P	20 28 28.3	+1.4
NIL	Nilore	4.42	176	P	20 28 30.3	+2.8
EKS2	Erkin-Say	4.64	8	P	20 28 31.6	+1.0
KBL	Kabul	4.68	222	P	20 28 34.2	+3.1
AAK	Ala-Archa	4.74	15	P	20 28 33.5	+1.6
AAK	Ala-Archa	4.74	15	P	20 28 32.8	+1.0
AAK	Ala-Archa	4.74	15	P	20 28 33.1	+1.3
AAK	49nm,0.3s,baz=189,slow=4.8,SNR=64	4.74	15	P	20 28 33.1	+1.3
AAK	25nm,0.4s,baz=148,slow=23,SNR=19	4.74	15	P	20 29 25.4	-0.6
AAK	Ala-Archa	4.74	15	P	20 28 33.4	+1.6
AAK	Ala-Archa	4.74	15	P	20 29 26.3	+0.7
AAK	Ala-Archa	4.74	15	P	20 28 35.0	+0.7
KBK	Karagaybulak	4.86	18	P	20 28 35.0	+0.7
ULHL	Ulahol	4.91	31	P	20 28 35.2	+1.0
FRU1	Bishkek	4.93	15	P	20 28 34.8	+0.4
BOOM	Boomskeye usch	5.01	27	P	20 28 36.5	+1.0
CHMS	Chumysh	5.13	16	P	20 28 38.3	+1.2
CHMS	Chumysh	5.13	16	P	20 28 38.4	+1.2
CHMS	Chumysh	5.13	16	P	20 29 33.2	-2.1
KDJ	Kajisay	5.24	38	P	20 28 39.1	+0.5
TARC	Taragay, Kyrg	5.28	25	P	20 28 40.2	+1.0
TKM2	Tokmak 2	5.28	22	P	20 28 40.2	+1.0
TKM2	Tokmak 2	5.28	22	P	20 28 39.9	+0.7
KK31	Karatay Array	5.34	341	P	20 28 40.3	+0.4
KK31	Karatay Array	5.34	341	P	20 28 40.5	+0.7
KK31	37nm,0.3s,baz=166,slow=14.4,SNR=896	5.34	341	P	20 28 40.5	+0.7
KK31	74nm,0.3s,baz=157,slow=20,SNR=11	5.34	341	P	20 29 36.9	-3.5
KKAR	Karatay Array	5.34	341	P	20 28 40.3	+0.5
KKAR	Karatay Array	5.34	341	P	20 28 40.4	+0.5
USP	Ospenovka	5.34	13	P	20 28 40.9	+1.0
JMU	Jammu	5.59	162	P	20 28 44.6	+1.4
JMU	Jammu	5.59	162	P	20 29 43.0	-3.3
JMU	Jammu	5.59	162	P	20 29 50.1	
PRZ	Przhel'sk	6.11	42	P	20 28 52.5	+2.1
DHRM	DHARAMSHALA	6.45	153	P	20 28 56.8	+1.9
DHRM	DHARAMSHALA	6.45	153	P	20 30 04.5	+2.8
DHRM	DHARAMSHALA	6.45	153	P	20 30 11.4	
PDGK	Podgornoye	7.28	42	P	20 29 06.2	+0.2
SMLA	Simla	7.77	152	P	20 29 14.8	+2.2
SMLA	Simla	7.77	152	P	20 30 35.4	-3.7
SMLA	Simla	7.77	152	P	20 30 37.9	
KLP	Kalpa	7.88	144	P	20 29 16.4	+2.0
KLP	Kalpa	7.88	144	P	20 30 38.0	-4.1
KLP	Kalpa	7.88	144	P	20 30 44.4	
KUDL	Kundal	10.35	162	P	20 29 49.8	+2.5
KUDL	Kundal	10.35	162	P	20 31 34.5	-7.0
KUDL	Kundal	10.35	162	P	20 31 34.9	
PTH	Pithoragarh	10.46	142	P	20 29 49.8	+0.8
PTH	Pithoragarh	10.46	142	P	20 31 36.8	-7.6
PTH	Pithoragarh	10.46	142	P	20 31 39.2	
PTH	Pithoragarh	10.46	142	P	20 31 41.5	
MAKZ	Makanchi	11.02	35	P	20 29 56.7	+0.5
MAKZ	Makanchi	11.02	35	P	20 29 55.4	-0.8
MK31	Makanchi Array	11.15	36	P	20 29 58.4	+0.4
MKAR	Makanchi Array	11.15	36	P	20 29 58.0	0.0
MKAR	Makanchi Array	11.15	36	P	20 29 58.5	+0.5
KURBB	Kurchatov Arra	13.19	16	P	20 30 22.5	-2.0
KURBB	Kurchatov Arra	13.19	16	P	20 30 21.8	-2.7
AB31	Akbulak array	14.56	324	P	20 30 40.4	-1.6
AB31	Akbulak array	14.56	324	P	20 30 40.3	-1.6
AB31	Akbulak array	14.56	324	P	20 33 15.9	-6.9
ABKAR	Akbulak array	14.56	324	P	20 30 40.3	-1.7
BVA0	Borovoye Array	15.06	354	P	20 30 47.0	-1.2
BVA0	Borovoye Array	15.06	354	P	20 30 47.4	-0.9
BRVK	Borovoye	15.10	354	P	20 30 47.0	-0.9
BRVK	Borovoye	15.10	354	P	20 30 54.2	
AKTO	Aktyubinsk	16.27	324	P	20 31 03.3	0.0
AKTO	Aktyubinsk	16.27	324	P	20 31 03.6	+0.3
LSA	Lhasa	17.30	113	P	20 31 15.8	-0.2
LSA	Lhasa	17.30	113	P	20 31 38.9	
ZALV	Zalesovo Beam	17.88	23	P	20 31 22.3	+0.7
ZALV	Zalesovo Beam	17.88	23	P	20 31 22.9	+1.2
ARTI	Arti	20.72	337	P	20 31 53.1	+0.8
ARTI	Arti	20.72	337	P	20 31 54.7	
ARTI	Arti	20.72	337	P	20 31 53.4	+1.1
BELG	Belogoroye	22.68	317	P	20 32 16.0	+3.3
BELG	Belogoroye	22.68	317	P	20 32 16.0	+3.3
SONM	Songoro Array	26.23	57	P	20 32 48.1	+2.7
FINES	FINES Array B	37.05	324	P	20 34 20.9	+1.4
ARCES	ARCES Array B	40.29	336	P	20 34 48.6	+2.2
HFS	Hagfors	42.78	321	P	20 35 09.0	+2.2
NB2	NORSAR Subarray	44.05	322	P	20 35 18.8	+1.7
NOA	NORSAR Array B	44.05	322	P	20 35 18.9	+1.8

comp=Z,0.7nm,0.6s

**UCR 26 20:31:30.9.1.2.8.38N:82.90W, h26km,3km, MW4.0**  
**CATAC 26 20:31:31.1.0.8.8'N:5.8'W, h1km,3km, M3.9/0**  
 MLV3.9/9, Error ellipse: s-maj=12.2km s-min=5.6km  
 az=18.8, confirmed

**ISC 26 20:31:30.5.1.2.8.42N:0.05:82.94W:0.03, h32km,9km,**  
 n46, c095/51, 8C-6D, Panama-Costa Rica border region

Code	Station Name	A°	AZ°	Phase ID	Time	Res
LPPC	Paso Canoas	0.15	391	eP	20 31 36.5	-0.1
CDITO	Canoas	0.17	21	P	20 31 36.8	-0.1
NELY	Ciudad Neily	0.23	357	eP	20 31 37.5	-0.3
NELY	Ciudad Neily	0.23	357	eP	20 31 42.5	+0.5
FITTO	Golfito	0.30	314	eP	20 31 37.7	-0.4
FITTO	Golfito	0.30	314	eP	20 31 43.6	-0.4
LMNES	Limones	0.32	167	eP	20 31 38.8	-0.2
EDAD	Golfito	0.33	316	eP	20 31 38.3	-0.4
EDAD	Golfito	0.33	316	eP	20 31 44.5	-0.3
VITO	San Vito	0.40	355	eP	20 31 40.2	0.0
RSRNO	Rio Sereno	0.41	10	eP	20 31 40.5	+0.2
SLCRA	Santa Clara, W	0.44	201	eP	20 31 40.6	-0.1
BRUZ	Volcan	0.45	331	eP	20 31 40.4	0.0
BRUZ	Volcan	0.45	331	eP	20 31 48.0	+0.1
BRUZ	Volcan	0.45	331	eP	20 31 40.5	-0.3
BRUZ	Volcan	0.45	331	eP	20 31 47.2	0.0
CLLRA	Cordillera,	0.46	441	eP	20 31 40.5	0.0
CESTRL	De las Acacias	0.49	91	eP	20 31 40.4	-0.5
ALCO	Alturas Coton,	0.54	111	eP	20 31 41.6	-0.3
BOTLY	Boquete Panama	0.58	54	eP	20 31 42.1	-0.4
EDP2	Tazares Grande	0.60	320	eP	20 31 37.7	+0.9
PANP	Palmar Norte	0.75	316	eP	20 31 45.1	-0.1
BURE	Buenos Aires	0.85	332	eP	20 31 46.6	-0.3
PBNVO	Pueblo Nuevo,	0.87	57	eP	20 31 45.9	-0.6
DRKO	Durika	0.90	340	eP	20 31 46.9	-0.1
DRKO	Durika	0.90	340	eP	20 32 02.0	+0.7
DRKO	Durika	0.90	340	eP	20 32 07.7	+0.9
RBALA	Bur	0.90	59	eP	20 31 46.6	-0.3
EDPE	Pejibaye, P	0.97	320	eP	20 31 48.6	-0.3
OCHAL	Ojochal	0.98	314	eP	20 31 48.5	-0.5
OCHAL	Ojochal	0.98	314	eP	20 32 01.4	-0.2
BRJE	Palmar Norte	1.06	329	eP	20 31 49.8	+0.1
BRIBI	Bribri	1.20	6	eP	20 31 53.1	-1.0
LCR2	La Lucha 2	1.69	321	S	20 32 23.0	+0.8
LCR2	La Lucha 2	1.69	321	S	20 32 00.8	-0.4
PICV	Pl. Pirris	1.73	314	eP	20 32 00.6	-1.2
VTCV	VTCV, Calle Va	1.74	333	eP	20 32 00.8	-1.2
RESJ	San Isidro (Tu	1.75	326	eP	20 32 01.2	-0.9
PARIA	Puntarenas Pro	1.77	312	eP	20 32 00.9	-1.1
CVTV	Tajo	1.73	333	eP	20 32 01.6	-1.0
CVTO	Turrialba Volc	1.78	333	eP	20 32 01.8	-1.0
VTR0	Volcan Turrial	1.79	333	eP	20 32 01.6	-1.3
VICA	Volcano Irazu	1.80	330	eP	20 32 00.9	+1.2
TCS1	Tazares Grande	2.10	320	eP	20 32 07.7	+0.9
TRT2	Tortugero	2.27	340	P	20 32 10.1	-0.8
TRT2	Tortugero	2.27	340	P	20 32 37.8	-0.8
SOCE	Pocosol	2.56	320	S	20 32 44.2	-2.9
SOCE	Pocosol	2.56	320	S	20 32 13.9	-2.0
INDI	Punta indio, G	2.92	30	P	20 32 51.4	+2.5
INDI	Punta indio, G	2.92	30	P	20 32 51.4	+2.5
BCIP	Isla Barro Col	3.15	76	eP	20 32 19.0	+1.1

**UCR 26 20:33:20.7.1.1.8.36N:82.83W, h30km,2km, MW3.6,**  
**1C-6D, Panama-Costa Rica border region**

Code	Station Name	A°	AZ°	Phase ID	Time	Res
LPPC	Paso Canoas	0.18	358	eP	20 33 26.9	+0.3
LPPC	Paso Canoas	0.18	358	eP	20 33 31.7	+1.0
LMNES	Limones	0.26	186	eP	20 33 28.3	-0.2
NELY	Ciudad Neily	0.31	339	eP	20 33 28.1	-0.3
NELY	Ciudad Neily	0.31	339	eP	20 33 34.2	-0.7
CESTRL	De las Acacias	0.49	81	eP	20 33 28.8	-1.0
FITTO	Golfito	0.41	310	eP	20 33 28.8	-1.0
FITTO	Golfito	0.41	310	eP	20 33 35.2	-0.7
EDAD	Golfito	0.44	312	eP	20 33 29.2	-1.1
CLLRA	Cordillera,	0.44	291	eP	20 33 30.1	-0.2
VITO	San Vito	0.46	344	eP	20 33 30.0	0.0
BOTLY	Boquete Panama	0.54	43	eP	20 33 31.5	-0.4
ALCO	Alturas Coton,	0.59	0	eP	20 33 32.0	-0.8
EDP2	Potrero Grande	0.74	333	eP	20 33 34.4	-0.7
PBNVO	Pueblo Nuevo,	0.83	50	eP	20 33 35.4	-1.0
RBALA	Bur	0.85	52	eP	20 33 36.0	-0.7
PANP	Palmar Norte	0.86	314	eP	20 33 36.0	-0.8
DRKO	Durika	0.98	336	eP	20 33 37.7	-1.1
EDPE	Pejibaye, P	0.98	318	eP	20 33 39.4	-0.5
SAJE	San Jernim	1.19	326	eP	20 33 40.5	-1.0
VTCV	VTCV, Calle Va	1.84	331	eP	20 33 51.2	+0.7
RESJ	San Isidro (Tu	1.85	334			



Table with columns: Call Sign, Station Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like KURB, AB31, NRDN, BVA0, etc.

Table with columns: Call Sign, Station Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like ELL, ELL, AK12, etc.

Table with columns: Call Sign, Station Name, Frequency, Band, Mode, Power, and other technical details. Includes stations like ILAR, MJAR, DLBC, etc.





26d 22h

Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Status, Date, Time, etc. Includes stations like G29M Pine Creek, GAMB Gambell, H17K Granite Mounta, etc.

2019 JUN

Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Status, Date, Time, etc. Includes stations like RIDG Independent Ri, KIRV Kirov, DAWY Dawson, etc.

172d

Table with columns: Station ID, Name, Elevation, Azimuth, Distance, Azimuth Error, Distance Error, Status, Date, Time, etc. Includes stations like M31M Drury Creek, BLKN Baker Lake, FARO Faro, etc.



# 1725 2019 JUN 26d 22h

OHAK	Old Harbor	34.41	71	P	P	22 19 45.4 +0.6
Q32M	Nakina River	34.48	51	P	P	22 19 45.8 +0.1
KURK	Kurchatov	34.55	211	P	I Amb	22 19 46.9 +0.8
KURK	Kurchatov	34.55	211	P	I Amb	22 19 56.8
KURK	Kurchatov	34.55	211	P	P	22 19 46.0 0.0
KURF						22 22 20.8
NACGM	Naroch	34.59	267	eP	P	22 19 45.8 -0.6
KURBB	Kurchatov Arra	34.64	211	P	P	22 19 46.0 -0.9
KURBB						22 22 20.0 +0.2
KURBB						22 26 60.0
S14K	Fog Glacier	34.75	77	P	P	22 19 48.8 +1.0
HEH	HeiHe	34.75	156	eP	P	22 19 49.0 +1.2
HEH						22 19 57.6 +1.0
BJUJ	Bjuv	34.78	281	iP	P	22 19 49.3 +0.4
MNK	Minsk	34.88	266	iP	P	22 19 49.3 +0.4
MNK						22 19 49.3 +0.4
MNK						22 21 05.5 +0.4
MNK						22 21 18.2
MNK						22 25 21.8 +2.3
MNK						22 27 33.1 -0.2
MNK						22 30 52.7
MNK						22 33 47.2
MNK						22 35 38.2
MNK						22 35 39.6
MNK						22 35 40.4
MNK						22 21 05.3 +0.4
MNK						22 21 05.3
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MNK						22 25 21.7 +2.3
MNK						22 27 33.0 -0.2
MNK						22 27 53.7
MNK						22 21 05.3 +0.4

26d 22h

Table with columns for station call letters, frequency, and other details. Includes stations like BTO, MLR, MYKA, OBKA, SURR, KBZ, PRED, DAVOX, BZS, GZR, FUORN, MAK, STAL, SOC, HARR, BJI, TUE, BJT, SENI, CLRS, GTA, ULM, PGC, BTK, KSH, NEW, ZCCA, EGMT, JTIM, KARS, KARS, HNS, HNS, HNS, LON, LON.

2019 JUN

Table with columns for station call letters, frequency, and other details. Includes stations like JSD, GNI, KRSR, KSAR, LYMT, E08A, LDAO, TIA, LZH, E28A, MJAR, BR131, ARPR, BOZ, GEVA, YNE, LMN, GBN, PBRG, RSSD, SADO, GAZ, KBL, POLO, MVO, ECSD, NIL, WFOR, JNU, PDAR, MTE, YBH, ESDC, ESDC, ESDC, PCAS, NJ2, JFWS, JFWS, PAB, PAB, HVB, HVB, HVB, VAE, PNTG, PESTR.

1726

Table with columns for station call letters, frequency, and other details. Includes stations like ELK, 002D, KCPM, HDIL, AFDM, ISCO, KEST, MMAL, ACCO, SPR3, NVAR, TPH, BALJ, SDCO, CCM, CCM, PZH, EIL, HHAR, WWT, ANMO, ANMO, ANMO, TKL, TKL, CPCT, WMOK, WMOK, WMOK, BG3, PFO, PFO, OXF, OXF, BIRD, FPAL, UOSS, YUH, BRDH, TUC, TUC, TUC, Z47A, MNTX, RAYN, RAYN, RAYN, VHRN, JCT, JCT, TXAR, TXAR, TXAR, TXAR, CMAR, CMAR, HPIG, HPIG, LPIG, PALK, PALK, TORD, TORD.















Table with columns: STKA, Stephens Creek, 29.20 175 LR, LR, 03 19 06.4, etc. Includes stations like ASAJ, BNK, JNU, MJAR, KRSR, CMAR, etc.

UCR 27 03:13:22.8, 1.0, 8.36N, 82.83W, h30km, 1km, MW4.0, Fault plane solution: N P1:φ=283.12000°, δ48.36000°, λ1.88000°.

CATAC 27 03:13:23.7, 0.8, 8.5N, 8.3W, h11km, 3km, M3, 8/7, MLV3, 8/7, Error ellipse: s-maj=10.9km s-min=8.7km az=29.1, confirmed.

UPA 27 03:13:23.1, 0.9, 8.38N, 82.84W, h31km, 4km, MW3.7, Fault plane solution: N P1:φ=0.00000°, δ90.00000°, λ-1.62.00000°.

ISC 27 03:13:22.8, 1.0, 8.36N, 0.03:82.85W, 0.03, h33km, 5km, n72, c087789, 14C-22N, Panama-Costa Rica border

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like LESP3, LPPC, LDZHO, etc.

KRSC 27 03:19:16.3±1.3, 53.15N, 157.32E, h289km, 13km, M13.9, Kamchatka Peninsula

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like GNL, GNL, KOK, etc.

Table with columns: WATA, Walderalm, 0.30 127 ePg, Pg, 03 20 17.8 -0.2, etc. Includes stations like WATA, RETA, WTTA, etc.

GCG 27 03:25:49.4±0.8, 15.48N, 92.22W, h166km, 7km, MD4.2, ML3.7

MEX 27 03:25:49.4±0.8, 15.55N, 92.20W, h177km, 8km, MD4.1, ISC 27 03:25:45.7±1.3, 15.54N, 92.33W, 0.04, h195km, 7km, c135, 22/05/1, Mexico-Guatemala border region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like PAVE, PATR, THIG, etc.

27d 4h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, h m s ISC. Includes stations like MGIG Malinaltepec, TLIG Tlapa, CRIG Cruz Grande, etc.

NOU 27 03:32:57.6, 22.12S; 179.19W, h612km, mb4.1/14, South of Fiji Islands
IDC 27 03:33:00.6, 1.3, 22.18S; 179.69W, h598km, 1.3km, mb3.3/10, mbtmp=2.12, Error ellipse: s-maj=18.5km

NEIC 27 03:33:01.2, 1.9, 22.2S; 0.1, 179.7W; 0.1, h602km, 7km, mb4.4/66, Error ellipse: s-maj=16.4km s-min=12.9km az=142.0

ISC 27 03:32:59.7, 0.4, 22.27S; 0.05, 179.55W; 0.07, h600km, n125, r156/136, mb4.3/39, South of Fiji Islands

Main table of station data for the 27d 4h period, including station names, coordinates, and seismic data.

2019 JUN

Main table of station data for the 2019 JUN period, including station names, coordinates, and seismic data.

1734

Main table of station data for the 1734 period, including station names, coordinates, and seismic data.

Table with columns: Code, Station Name, Az, El, P, S, Time, Res. Includes stations like HEF, ERTU, TRO, TOF, etc.

IDC 27 04:18:02.8, 5.1, 2.6, 37.5, 178.46W, h261km, 1.1km, mb3.9/11, mbtmpt4.5/12, Error ellipse: s-maj=17.7km s-min=12.1km az=72.0

NEIC 27 04:18:04.2, 1.7, 26.48S, 0.09, 178.4W, 0.1, h264km, 6km, mb4.5/26, Error ellipse: s-maj=18.0km s-min=10.3km az=53.0

ISC 27 04:18:02.8, 0.5, 26.54S, 0.05, 178.71W, 0.09, h250km, n75, c246/83, mb4.5/23, SC, South of Fiji Islands

Main table of station data for the left column, including codes like RIZ, RAO, RAO, RAO, etc., and station names like Raoul Island, Green Lake, Nonsavu, etc.

Table of Kurshatov Arra, BOSA, BVAR, ARCES, FINES, NB2, NOA, HFS, AKASG, MMAIL, BRTR, EKA, CLL, TORD, TORO, TORO, etc.

BUI 27 04:20:45.0, 56.20N, 164.30E, h10km, mb5.2/41, mb4.9/61, Ms5.9/76, Ms7.5/76

IDC 27 04:20:46.6, 0.4, 56.19N, 164.24E, h0km, mb4.9/37, mblmp5.0/42, ML4.9/5, Ms5.1/78, Error ellipse: s-maj=10.0km s-min=8.1km az=143.0

KRSC 27 04:20:47.1, 3.5, 56.17N, 164.43E, h57km, 20km, Mc5.9, M15.8, Felt [III-IV] at Krutoberegovo, Ust-Kamchatsk; [III] at Nikolskoe

NEIC 27 04:20:48.8, 56.21N, 164.31E, h10km, mb5.4/821, Ms 2.0, 5.2/855, Mw5.6/79, Mw5.7/62 Error ellipse: s-maj=1.1km s-min=9.9km az=185.0, Moment Tensor Solution: Moment tensor: Scale 1017Nm; Mn=0.37; Ml=0.10; Ms=0.15; Ml=0.51; Ml=0.26; Ml=0.14; Mw=0.42; Mw=0.22; Mw=0.10; Fault plane solution: Mc3.350000\*1017 NP1.0s31.700000, s89.100000, l285.400000. NP2.0s174.000000, s25.700000, l-124.900000.

NEIC 27 04:20:48.8, 56.21N, 164.31E, h10km, mb5.4/821, Ms 2.0, 5.2/855, Mw5.6/79, Mw5.7/62 Error ellipse: s-maj=1.1km s-min=9.9km az=185.0, Moment Tensor Solution: Moment tensor: Scale 1017Nm; Mn=0.37; Ml=0.10; Ms=0.15; Ml=0.51; Ml=0.26; Ml=0.14; Mw=0.42; Mw=0.22; Mw=0.10; Fault plane solution: Mc3.350000\*1017 NP1.0s31.700000, s89.100000, l285.400000. NP2.0s174.000000, s25.700000, l-124.900000.

NEIC 27 04:20:48.8, 56.21N, 164.31E, h10km, mb5.4/821, Ms 2.0, 5.2/855, Mw5.6/79, Mw5.7/62 Error ellipse: s-maj=1.1km s-min=9.9km az=185.0, Moment Tensor Solution: Moment tensor: Scale 1017Nm; Mn=0.37; Ml=0.10; Ms=0.15; Ml=0.51; Ml=0.26; Ml=0.14; Mw=0.42; Mw=0.22; Mw=0.10; Fault plane solution: Mc3.350000\*1017 NP1.0s31.700000, s89.100000, l285.400000. NP2.0s174.000000, s25.700000, l-124.900000.

IPGP 27 04:20:48.8, 56.20N, 164.31E, h14km, Mw5.6, Fault plane solution: NP1.0s109.000000, s87.000000, l-168.000000. NP2.0s18.000000, s78.000000, l-4.000000.

NEIC 27 04:20:48.8, 56.21N, 164.30E, h24km, MOS 27 04:20:49.6, 1.0, 56.19N, 164.36E, h35km, mb5.5/66, MS5.2/44, Error ellipse: s-maj=5.0km s-min=3.6km az=80.0

GCMT 27 04:20:53.1, 0.1, 56.25N, 0.0, 164.39E, 0.0, h18km, MW5.7/175, Moment Tensor Solution: s154.6321, s175.6370, Duration: 1s Moment tensor: Scale 1017 Nm; Mn=0.33; Ml=0.04; Ms=2.81; Ml=0.4; Mw=2.48; Mw=0.2; Mw=3.66; Mw=0.4; Mw=0.42; Mw=0.9; Best double couple: M4.542000\*1017 NP1.0s108.000000, s84.000000, l-179.000000. NP2.0s18.000000, s89.000000, l-6.000000. Principal axes: T 4.3670, Plg4.0000, Azm33.0000; N 0.3450, Plg84.0000, Azm190.0000; P -4.7170, Plg5.0000, Azm333.0000; nsta1 refers to body waves, cutoff=400s. nsta2 refers to surface waves, cutoff=50s.

BGR 27 04:20:54.5, 56.77N, 164.29E, h38km, 1km, mb5.2, Ms5.3 ISC 27 04:20:49.5, 0.5, 56.15N, 164.24E, 0.02, h20km, 1km, h20\*2P, D, n1712, s157, m5, 4/99, MS5.2/541, 320-27D, Komandorski Islands region

Table of Kurshatov Arra, BOSA, BVAR, ARCES, FINES, NB2, NOA, HFS, AKASG, MMAIL, BRTR, EKA, CLL, TORD, TORO, TORO, etc.

Code Station Name Az El P S Time Res Op ISC h m s ISC

Main table of station data for the right column, including codes like KBT, KBTR, KBG, KBR, Bering, etc., and station names like Krutoberegovo, Bering, etc.

Main table of station data for the right column, including codes like PALN, PALN, PALN, PALN, etc., and station names like Palana, Palana, Palana, etc.

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Table with columns for station name, coordinates, elevation, and various data points. Includes stations like Uglegorsk, Nikolski High, Mekoryuk, Yuzhno-Sakhali, Yuzh-Kuril'sk, Unalaska Valle, Kusilyak Mount, Arctic Creek, Lava Point, Nome, Granite Mounta, Kuna River, and others.

Table with columns for station name, coordinates, elevation, and various data points. Includes stations like Yakutsk, Tigykauivet M, Anvik River, Kwasigluk River, Black Hills, Anvik River, Unalakleet, Noatak River, Kwethluk River, Red Dog Mine, Hotham Inlet, Delaney Mountai, Baldwin Pennin, Owhat River, Granite Mounta, VABM Dome, VABM Dome, Timber Creek, Ermo, Sand Point, Sand Point, Tukpahleirik C, Selawik, Donlin, Ititarod, Utukok River, Utukok River, Fog Glacier, Kokolik River, Honhosa River, Honhosa River, Tagagawik, Tagagawik, Kokkok River B, and others.

Table with columns for station name, coordinates, elevation, and various data points. Includes stations like Nushagak River, Holitna River, Chernabura Isl, Chernabura Isl, Nushagak Hills, Nushagak Hills, Wainwright, Ternei, Koliganek Kriv, Granite Mounta, Granite Mounta, Innoko River, Lookout Ridge, Lookout Ridge, Shalerucik Mo, Shalerucik Mo, Galena City Sc, Kul'dur, Kul'dur, Pilot Point, Purcell Mounta, Roundabout Mou, Kuna River, Kuna River, King Salmon, Redstone River, Redstone River, Kvichak River, Stony River, Kilae Creek, Kilae Creek, Poorman, Poorman, ZEA, ZEA, ZEA, Mt. Peulik Vol, Peulik 4, Tiksi, Tiksi, Contact Creek, Avararta Lake, Avararta Lake, White Mountain, White Mountain, Koktuh Hills, Koktuh Hills, Etivluk River, Etivluk River, and others.



JTM	baz=254	21.57	234	P	P	04 25 36.6	-1.1
JTM	Tennabayashi			IAMB	IAMB	04 25 42.6	
JTM	comp=Z,169nm,1.0s	21.57	234	P	P	04 25 38.7	+1.0
E20K	Tennabayashi	21.60	40	P	P	04 25 38.6	+0.8
E20K	Nigu River			S	S	04 29 36.9	+1.0
E20K	baz=256			S	S	04 29 36.9	+1.0
H20K	Anotleneega Mo	21.61	48	P	P	04 25 38.5	+0.6
H20K	baz=264,SNR=118			S	S	04 29 37.0	+0.9
P18K	Big Mountain,	21.61	65	P	P	04 25 37.0	-1.0
P18K	Big Mountain,	21.61	65	P	P	04 25 38.8	+0.7
P18K	baz=279,SNR=54			S	S	04 29 37.6	+1.3
I20K	baz=279	21.72	50	P	P	04 25 38.6	-0.5
I20K	Naaghedeneel			IAMB	IAMB	04 25 52.2	
I20K	comp=Z,282nm,1.1s	21.72	50	P	P	04 25 40.0	+1.0
M19K	Naaghedeneel	21.75	58	P	P	04 25 38.0	-1.5
M19K	Big River Lodg	21.75	58	P	P	04 25 40.4	+1.0
M19K	Big River Lodg	21.75	58	P	P	04 25 40.4	+1.0
M19K	baz=274			S	S	04 29 42.6	+3.7
B20K	Meade River	21.78	35	P	P	04 25 38.4	-1.3
B20K	Meade River	21.78	35	P	P	04 25 40.2	+0.6
B20K	baz=250			S	S	04 29 38.4	-1.0
N19K	Bonanza Creek	21.80	61	P	P	04 25 39.0	-1.0
N19K	comp=Z,6um,18.0s			IAMS_20	IAMS_20	04 33 54.6	
N19K	Bonanza Creek	21.80	61	P	P	04 25 41.1	+1.0
N19K	baz=276,SNR=64			S	S	04 29 40.1	+0.1
J20K	Novinta River	21.83	51	P	P	04 25 38.8	-1.4
J20K	comp=Z,248nm,1.4s			IAMB	IAMB	04 25 56.6	
J20K	Novinta River	21.83	51	P	P	04 25 41.0	+0.7
J20K	baz=268,SNR=70			S	S	04 29 39.9	-0.5
K20K	Telida	21.85	54	P	P	04 25 39.5	-1.1
K20K	Telida	21.85	54	P	P	04 25 41.4	+0.9
K20K	baz=270,SNR=97			S	S	04 29 39.6	-1.3
Q18K	Katmai Hardscr	21.86	66	P	P	04 25 41.6	+0.9
Q18K	baz=281,SNR=31			S	S	04 29 42.8	+1.5
O19K	Port Alsworth	21.95	62	P	P	04 25 42.1	+0.5
O19K	baz=278,SNR=12			S	S	04 29 43.8	+1.0
L20K	Farewell, AK	21.96	56	P	P	04 25 42.1	+0.4
L20K	baz=272			S	S	04 29 44.8	+1.8
IMAR	Indian Mountai	22.13	47	P	P	04 25 43.0	-0.4
G21K	Aliakaket	22.29	45	IAMB	IAMB	04 25 44.1	-1.1
G21K	comp=Z,289nm,1.4s			P	P	04 25 45.8	+0.6
G21K	Aliakaket	22.29	45	P	P	04 25 47.8	-1.3
G21K	baz=263,SNR=103			S	S	04 29 47.8	-1.3
C21K	Knifblade Rid	22.32	38	P	P	04 25 46.3	+0.8
C21K	baz=255,SNR=85			S	S	04 29 48.7	-1.0
M20K	Styx River	22.34	58	P	P	04 25 45.7	-0.2
M20K	comp=Z,263nm,1.6s			IAMB	IAMB	04 26 05.5	
M20K	Styx River	22.34	58	P	P	04 25 46.6	+0.7
M20K	baz=275			S	S	04 29 49.5	-1.0
R18K	baz=275	22.38	69	P	P	04 25 45.1	-1.1
R18K	Karuk			S	S	04 29 49.4	-1.5
R18K	baz=284			S	S	04 29 49.4	-1.5
F21K	Alatna River	22.40	43	P	P	04 25 44.7	-1.7
F21K	comp=Z,135nm,1.1s			IAMB	IAMB	04 25 51.0	
F21K	Alatna River	22.40	43	P	P	04 25 46.5	+0.2
F21K	baz=261,SNR=158			S	S	04 29 50.0	-1.2
A21K	Barrow	22.42	32	P	P	04 25 46.9	+0.4
A21K	baz=248			S	S	04 29 49.8	-1.7
E21K	Kilik River	22.44	40	P	P	04 25 45.4	-1.4
E21K	comp=Z,139nm,1.2s			IAMB	IAMB	04 25 49.5	
E21K	Kilik River	22.44	40	P	P	04 25 47.0	+0.2
H21K	Melozitna Rive	22.48	48	P	P	04 25 46.3	-1.0
H21K	comp=Z,156nm,1.2s			IAMB	IAMB	04 25 51.0	
H21K	Melozitna Rive	22.48	48	P	P	04 25 47.8	+0.4
H21K	baz=266,SNR=113			S	S	04 29 50.9	-1.9
Q19K	Cape Douglas,	22.50	65	P	P	04 25 47.4	-0.1
Q19K	Cape Douglas,	22.50	65	P	P	04 25 47.6	0.0
Q19K	baz=281,SNR=34			S	S	04 29 51.7	-1.6
B21K	Ikpikpuk River	22.50	37	P	P	04 25 47.0	-0.4
B21K	Ikpikpuk River	22.50	37	P	P	04 25 48.5	+1.1
B21K	baz=254,SNR=55			S	S	04 29 54.2	+1.2
ILSW	Iliamna Southw	22.57	63	P	P	04 25 48.3	0.0
P19K	Oil Pt	22.58	63	P	P	04 25 47.9	-0.5
P19K	comp=Z,6um,19.0s			IAMS_20	IAMS_20	04 34 41.3	
P19K	Oil Pt	22.58	63	P	P	04 25 48.6	+0.3
P19K	baz=280,SNR=29			S	S	04 29 55.5	+0.9
HEH	HeiHe	22.63	270	eP	S	04 25 46.5	-2.4
HEH	HEH			S	S	04 29 49.0	-6.6
HEH	HEH			ScP	ScP	04 33 20.5	+3.2
HEH	comp=Z,26nm,0.6s			LR	LR		
HEH	comp=Z,30um,17.4s			LR	LR		
HEH	comp=Z,19um,17.7s			LR	LR		
CHUM	Lake Minchumir	22.63	52	P	P	04 25 49.3	+0.4
CHUM	baz=270			S	S	04 29 56.6	+1.1
RED	Redoubt Volcan	22.68	61	P	P	04 25 48.3	-1.2
PPLA	Purkeypie	22.72	55	P	P	04 25 48.5	-1.4
PPLA	Purkeypie	22.72	55	P	P	04 25 51.0	+1.0
PPLA	baz=273,SNR=45			S	S	04 29 57.5	+0.2
CAST	Castle Rocks	22.74	53	P	P	04 25 49.7	-0.4
CAST	Castle Rocks	22.74	53	P	P	04 25 50.6	+0.5
CAST	baz=272,SNR=58			S	S	04 29 57.7	+0.2
SII	Sitkinak Islan	22.79	72	P	P	04 25 49.6	-1.1
SII	Sitkinak Islan	22.79	72	P	P	04 25 50.8	+0.2
SII	Sitkinak Islan	22.79	72	P	P	04 25 50.3	-0.4
SII	baz=287			S	S	04 29 57.3	-1.1
I21K	Tanana	22.80	49	P	P	04 25 49.6	-1.0
I21K	comp=Z,276nm,1.5s			IAMB	IAMB	04 26 03.1	
I21K	Tanana	22.80	49	P	P	04 25 50.9	+0.3
A22K	Sinclair Lake	22.81	33	P	P	04 25 50.8	+0.2
A22K	baz=250			S	S		
A22K	comp=Z,147nm,1.3s			S	S		
O20K	Slope Mountain	22.81	62	P	P	04 25 52.0	+1.2
O20K	baz=279,SNR=31			S	S		
N20K	Mount Spurr	22.85	59	P	P	04 25 51.8	+0.6
N20K	baz=277			S	S		
SPCR	Spurr Chakacha	22.85	59	P	P	04 25 01.4	+1.9
SPCR	baz=277,SNR=14			S	S		
SPU	Mount Spurr	22.93	59	P	P	04 25 51.7	-0.4
F22K	John River	22.94	43	P	P	04 25 52.5	+0.4
F22K	baz=262			S	S		
D22K	Aiyikyak River	22.99	39	P	P	04 25 51.1	-1.5
D22K	Aiyikyak River	22.99	39	P	P	04 25 52.5	-0.1
D22K	baz=258			S	S		
STLK	Strandline Lak	23.00	58	P	P	04 25 52.8	0.0
STLK	comp=Z,2117nm,0.9s			IAMB	IAMB	04 26 06.0	
OHAK	Old Harbor	23.08	70	P	P	04 25 51.7	-1.9
OHAK	Old Harbor	23.08	70	P	P	04 25 53.6	0.0
OHAK	Old Harbor	23.08	70	P	P	04 25 53.0	-0.6
OHAK	baz=286,SNR=14			S	S		
H22K	Ishlitalina Cre	23.09	47	P	P	04 25 00.9	+0.2
H22K	baz=266,SNR=77			S	S		
H22K	Skwentna	23.09	57	P	P	04 25 52.2	-1.5
H22K	comp=Z,94nm,0.9s			IAMS_20	IAMS_20	04 35 58.8	
SKT	SKT	23.09	57	P	P	04 25 53.9	+0.2
SKT	SKwentna	23.09	57	P	P	04 25 53.9	+0.2
SKT	baz=276,SNR=39			S	S		
B22K	Teshhepkuk Lake	23.10	36	P	P	04 25 53.0	-0.6
B22K	Teshhepkuk Lake	23.10	36	P	P	04 25 53.6	0.0
B22K	baz=254			S	S		
G22K	Bettes	23.12	44	P	P	04 25 54.0	+0.1
G22K	baz=264			S	S		
E22K	Anaktuvuk Pass	23.17	41	P	P	04 25 53.2	-1.2
E22K	Anaktuvuk Pass	23.17	41	P	P	04 25 54.4	-0.1
E22K	baz=261,SNR=163			S	S		
Q20K	Shuyak Island	23.20	66	P	P	04 25 54.0	-0.8
Q20K	baz=283			S	S		
BPAW	Bear Paw Mtn.	23.22	52	IAMB	IAMB	04 25 53.9	-0.9
BPAW	comp=Z,226nm,1.5s			P	P	04 25 57.3	
BPAW	Bear Paw Mtn.	23.22	52	P	P	04 25 54.5	-0.4
BPAW	baz=271,SNR=66			S	S		
KTH	Kantishna Hill	23.26	53	IAMB	IAMB	04 26 14.0	
KDAK	Kodiak Island	23.30	68	P	P	04 25 53.8	-2.0
KDAK	comp=Z,100nm,0.9s			IAMB	IAMB	04 26 06.2	
KDAK	Kodiak Island	23.30	68	P	P	04 25 53.8	-2.0
KDAK	comp=Z,100nm,0.9s			PMAX	PMAX		
KDAK	Kodiak Island	23.30	68	P	P	04 25 54.8	-1.0
KDAK	baz=285			S	S		
MLY	Manley	23.32	49	IAMB	IAMB	04 26 14.7	
MLY	comp=Z,158nm,1.2s			S	S		
MLY	Manley	23.32	49	P	P	04 25 56.0	0.0
MLY	baz=269,SNR=65			S	S		
HOM	Homer	23.37	63	P	P	04 25 56.1	-0.3
HOM	comp=Z,211nm,1.4s			S	S		
CAPN	Captain Cook N	23.42	60	P	P	04 25 57.0	+0.1
CAPN	baz=279			S	S		
SUA	Susitna One	23.52	58	IAMB	IAMB	04 26 11.7	
SUA	comp=Z,126nm,0.9s			S	S		
SUA	Susitna One	23.52	58	P	P	04 25 57.9	-0.1
SUA	baz=277			S	S		
TRF	Thorofare Moun	23.55	53	IAMB	IAMB	04 26 10.2	
TRF	comp=Z,160nm,0.9s			S	S		
TRF	Thorofare Moun	23.55	53	P	P	04 25 58.6	+0.2
TRF	baz=273,SNR=44			S	S		
USRK	Ussuriysk Ar.	23.62	253	P	P	04 25 57.4	-1.7
USRK	Ussuriysk Ar.	23.62	253	P	P	04 25 57.6	-1.5
CUT	Chulitna	23.64	56	P	P	04 25 59.2	+0.1
CUT	comp=Z,2.9nm,0.5s			S	S		
CUT	Chulitna	23.64	56	P	P	04 25 59.2	+0.1
CUT	baz=276			S	S		
COLD	Coldfoot	23.66	44	IAMB	IAMB	04 26 11.5	
COLD	comp=Z,104nm,1.0s			P	P		
COLD	Coldfoot	23.66	44	P	P	04 25 59.2	-0.1
COLD	baz=264,SNR=67			S	S		
G23K	Bananza Creek	23.69	45	IAMB	IAMB	04 26 11.5	
G23K	comp=Z,82nm,0.9s			S	S		
G23K	Bananza Creek	23.69	45	P	P	04 25 59.3	-0.3
G23K	baz=266,SNR=69			S	S		
D23K	Nanushuk River	23.72	39	IAMB	IAMB	04 26 12.0	
D23K	comp=Z,211nm,1.4s			P	P		
D23K	Nanushuk River	23.72	39	P	P	04 26 01.1	+0.3
D23K	baz=260			S			

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Table with columns: ID, Name, Date, Time, Location, Status, Value, and other details. Includes entries like D25K Kavik River, GLI Glacier Island, H25L Birch Creek, etc.

Table with columns: ID, Name, Date, Time, Location, Status, Value, and other details. Includes entries like KAIM Kayak Island, BOD Bodaibo, E27K Golden River, etc.

Table with columns: ID, Name, Date, Time, Location, Status, Value, and other details. Includes entries like TABL, E29M Blow River, G29M Pine Creek, etc.

P30M	baz=289	30.40	58	P	P	04 26 59.7	-0.3
P30M	Million Dollar	30.40	58	P	P	04 26 59.7	-0.3
SUJ	baz=289			S	S	04 31 57.6	-1.8
SUJ	Sinuju	30.48	255	P	S	04 26 59.4	-1.4
SUJ	comp=Z,68nm,1.3s			S	S	04 31 59.1	-1.8
SUJ	comp=Z,8um,12.9s			AMS	AMS		
N31M	Braeburn, Yuko	30.52	55	IAMS_20	IAMS_20	04 40 03.7	
N31M	Braeburn, Yuko	30.52	55	P	P	04 27 00.9	-0.2
N31M	baz=288,SNR=13			S	S	04 32 00.2	-1.0
O30N	Mendenhall	30.60	56	P	P	04 27 01.7	-0.1
O30N	baz=288			S	S	04 31 59.9	-2.6
KS19	Wonu Array Si	30.60	248	P	P	04 27 01.7	-0.2
KS19	Korea Array	30.61	248	P	P	04 27 00.8	-1.2
KSAR	Wonu Array Be	30.64	248	P	P	04 27 01.4	-0.8
KSAR	Wonu Array Be	30.64	248	P	P	04 27 01.4	-0.8
PLCB	Pleasant Camp	30.90	59	P	P	04 32 07.7	+0.5
PLCB	baz=290,SNR=6.6			S	S		
M31M	Drury Creek, Y	30.93	53	IAMB	IAMB	04 27 07.5	
M31M	comp=Z,69nm,1.1s			IAMS_20	IAMS_20	04 40 38.7	
M31M	Drury Creek, Y	30.93	53	P	P	04 27 05.2	+0.5
M31M	baz=287,SNR=73			S	S	04 32 08.4	+0.7
WHY	Whitehorse	31.20	56	P	P	04 27 07.2	+0.1
WHY	Whitehorse	31.20	56	P	P	04 27 06.6	-0.6
WHY	baz=289			S	S	04 32 10.2	-1.8
HJUN	Inchon	31.26	249	IAMS_20	IAMS_20	04 40 43.8	
HJUN	comp=Z,5um,19.0s			P	P	04 27 07.0	-1.2
HJU	Haeju	31.32	251	P	S	04 32 12.3	-1.6
HJU	comp=Z,926nm,4.1s			AMS	AMS		
FARO	Faro, Yukon	31.39	53	IAMB	IAMB	04 27 12.0	
FARO	comp=Z,63nm,1.2s			IAMS_20	IAMS_20	04 40 43.8	
FARO	Faro, Yukon	31.39	53	P	P	04 27 08.6	-0.1
FARO	comp=Z,4um,20.0s			S	S		
SKAG	Skagway	31.40	58	IAMB	IAMB	04 27 12.5	
SKAG	comp=Z,86nm,1.2s			IAMS_20	IAMS_20	04 40 49.0	
SKAG	Skagway	31.40	58	P	P	04 27 09.0	+0.3
SKAG	baz=291,SNR=14			S	S	04 32 16.0	+1.2
S31K	Pelican	31.52	62	IAMS_20	IAMS_20	04 41 07.3	
S31K	comp=Z,4um,20.0s			P	P	04 27 09.9	+0.1
S31K	Pelican	31.52	62	P	P	04 27 11.0	+0.7
S31K	baz=293			S	S	04 32 18.1	+1.4
N32M	Taejon	31.72	247	P	P	04 27 11.0	-0.7
N32M	Quiet Lake	31.86	55	IAMS_20	IAMS_20	04 41 03.4	
N32M	Quiet Lake	31.86	55	P	P	04 27 12.8	-0.1
N32M	baz=290,SNR=11			S	S	04 32 23.1	+0.9
P32M	Atlin	32.12	58	IAMS_20	IAMS_20	04 40 20.0	
P32M	comp=Z,6um,20.0s			P	P	04 27 14.6	-0.5
P32M	Atlin	32.12	58	P	P	04 27 23.4	-2.9
P32M	baz=292,SNR=14			S	S		
MMPY	Sheldon Lake,	32.19	52	IAMB	IAMB	04 27 18.6	
MMPY	comp=Z,5.5nm,1.1s			P	P	04 27 15.6	-0.2
MMPY	Sheldon Lake,	32.19	52	P	P	04 27 25.5	-1.9
MMPY	baz=289,SNR=57			S	S		
R32K	Eaglecrest	32.23	60	P	P	04 27 16.0	-0.1
R32K	baz=293,SNR=17			S	S		
A36M	Sachs Harbour	32.25	33	P	P	04 27 15.8	-0.3
A36M	baz=279			S	S	04 32 25.4	-2.5
JIS	Juneau Island	32.30	60	P	P	04 27 19.5	+2.9
P33M	Teslin, Yukon	32.31	56	IAMB	IAMB	04 27 16.8	-0.1
P33M	comp=Z,54nm,1.2s			P	P	04 27 19.7	
P33M	Teslin, Yukon	32.31	56	P	P	04 27 16.5	-0.3
P33M	baz=291,SNR=27			S	S	04 32 26.6	-2.8
SIT	Sitka	32.33	63	IAMS_20	IAMS_20	04 40 23.8	
SIT	comp=Z,3um,19.0s			P	P	04 27 19.4	+2.5
SIT	Sitka	32.33	63	P	P	04 27 17.0	+0.1
SIT	baz=295,SNR=14			S	S		
S32K	Killisnoo	32.53	62	IAMB	IAMB	04 27 22.5	
S32K	comp=Z,64nm,1.0s			IAMS_20	IAMS_20	04 41 47.1	
S32K	comp=Z,4um,21.0s			P	P	04 27 19.0	+0.3
S32K	baz=294,SNR=19			S	S		
JNU	Nakatsue	32.55	239	LR	LR	04 41 47.7	
XLT	XILinHaoTe	32.59	269	eP	pP	04 27 20.3	+0.8
XLT	comp=Z,18um,16.6s			pP	pP	04 27 23.3	+1.1
XLT	comp=Z,11nm,0.9s			sP	sP	04 27 27.0	+0.9
XLT	comp=Z,65nm,3.8s			PP	PP	04 28 30.5	-2.6
XLT	comp=Z,15um,18.7s			PP	PP	04 32 33.8	-0.2
XLT	comp=Z,8um,14.0s			pmax	pmax		
DL2	Dalian	32.89	257	P	P	04 27 21.3	-0.7
DL2	comp=Z,16nm,0.6s			PP	PP	04 28 36.0	-0.3
DL2	comp=Z,8um,17.6s			S	S	04 32 41.5	+3.0
DL2	comp=Z,12um,17.4s			LR	LR		
DL2	comp=Z,6um,22.8s			LR	LR		
Q32M	Nakina River	33.05	58	IAMB	IAMB	04 27 27.0	
Q32M	comp=Z,72nm,1.2s			IAMS_20	IAMS_20	04 40 47.6	
Q32M	Nakina River	33.05	58	P	P	04 27 23.6	+0.2
Q32M	baz=293,SNR=22			S	S	04 32 35.5	-5.5
R33M	Jennings River	33.49	57	IAMB	IAMB	04 27 30.0	
R33M	comp=Z,62nm,1.1s			IAMS_20	IAMS_20	04 40 52.2	
R33M	Jennings River	33.49	57	P	P	04 27 27.5	+0.2
R33M	baz=294,SNR=37			S	S	04 32 47.5	-0.2
T33K	Petersburg	33.61	62	P	P	04 27 28.4	+0.2
U33K	Whale Pass	33.84	63	P	P	04 27 31.1	+1.0
TG1N	Hyland Airport	33.89	53	P	P	04 27 31.6	+1.0
TG1N	baz=292			S	S	04 32 54.5	+0.7
S34M	Telegraph Cree	34.02	60	IAMB	IAMB	04 27 35.3	

S34M	comp=Z,51nm,1.1s			IAMS_20	IAMS_20	04 43 41.5	
S34M	Telegraph Cree	34.02	60	P	P	04 27 32.0	+0.3
S34M	baz=295,SNR=20			S	S	04 32 57.7	+2.0
WRAK	Wrangell Islan	34.09	62	IAMB	IAMB	04 27 36.6	
WRAK	comp=Z,75nm,1.1s			IAMS_20	IAMS_20	04 41 25.2	
WRAK	Wrangell Islan	34.09	62	P	P	04 27 33.2	+0.9
WRAK	baz=297			S	S	04 32 59.3	+2.6
CRAG	Craig	34.13	64	IAMS_20	IAMS_20	04 40 45.5	
CRAG	comp=Z,3um,22.0s			P	P	04 27 33.1	+0.5
CRAG	Craig	34.13	64	P	P	04 32 58.2	+0.8
CRAG	baz=298			S	S		
WTLY	Watson Lake, Y	34.21	55	IAMS_20	IAMS_20	04 42 27.2	
WTLY	Watson Lake, Y	34.21	55	P	P	04 27 33.7	+0.3
DLBC	Dease Lake	34.33	58	LR	LR	04 41 39.0	
DLBC	comp=Z,427nm,21.0s			LR	LR		
NR1K	Nori'sk	34.86	323	P	P	04 27 38.9	+0.1
NR1K	Nori'sk	34.86	323	P	P	04 27 38.5	-0.3
NR1K	comp=Z,10nm,0.8s			LR	LR	04 42 39.1	
NR1K	baz=87,slow=8.7,SNR=15						
NR1K	Nori'sk	34.86	323	P	P	04 27 38.9	+0.1
NR1K	comp=Z,10nm,0.8s			pmax	pmax		
T35M	Bob Quinn	34.86	61	IAMS_20	IAMS_20	04 43 55.2	
T35M	comp=Z,4um,18.0s			P	P	04 27 39.9	+0.9
T35M	Bob Quinn	34.86	61	P	P	04 33 09.5	+0.8
T35M	baz=297,SNR=35			S	S		
V35K	Ketchikan	34.96	64	IAMS_20	IAMS_20	04 41 21.3	
V35K	comp=Z,3um,21.0s			P	P	04 27 39.3	-0.5
V35K	Ketchikan	34.96	64	P	P	04 33 12.9	+2.8
V35K	baz=299,SNR=6.3			S	S		
BJT	Bajitauu	35.12	263	IAMS_20	IAMS_20	04 43 20.8	
BJT	comp=Z,4um,18.0s			P	P	04 27 42.1	-0.3
ULN	Ulanbaatar	35.22	281	IAMS_20	IAMS_20	04 43 29.3	
ULN	comp=Z,5um,19.0s			P	P	04 27 39.9	-2.5
ULN	Ulanbaatar	35.22	281	P	P	04 33 09.7	-5.0
ULN	comp=Z,2.4nm,1.3s			pmax	pmax	04 27 42.7	+0.3
WRGLY	Wrigley	35.32	48	IAMB	IAMB	04 27 46.3	
WRGLY	comp=Z,60nm,1.1s			IAMS_20	IAMS_20	04 42 59.5	
WRGLY	Wrigley	35.32	48	P	P	04 27 43.4	+0.6
WRGLY	comp=Z,3um,18.0s			S	S	04 33 15.4	-0.2
U35K	Hyder	35.47	62	IAMS_20	IAMS_20	04 41 22.8	
U35K	comp=Z,4um,22.0s			P	P	04 27 44.6	+0.4
U35K	Hyder	35.47	62	P	P	04 27 46.0	+0.9
U35K	baz=299			IAMB	IAMB	04 42 52.7	
DIB	Dawson Inlet,	35.57	67	IAMB	IAMB	04 42 52.7	
DIB	comp=Z,81nm,1.2s			IAMS_20	IAMS_20	04 42 52.7	
SOMN	Songino Array	35.60	282	P	P	04 27 44.8	-0.8
SOMN	Hyder	35.60	282	P	P	04 27 45.7	+0.1
SOMN	comp=Z,5.6nm,0.8s			SNR=31	PcP	04 30 14.6	+0.6
SOMN	comp=Z,4.2nm,0.9s			baz=73,slow=2.9,SNR=3.6	ScP	04 34 01.3	+2.8
SOMN	comp=Z,3.5nm,1.2s			baz=80,slow=1.7,SNR=6.0	LR	04 43 36.0	
LIRD	Liard River Hi	35.74	55	P	P	04 27 47.1	+0.5
LIRD	baz=296			S	S	04 33 23.6	+1.4
ZAK	Zakamensk	35.85	287	eP	pmax	04 27 47.6	-0.1
ZAK	comp=Z,7.0nm,1.3s			IAMB	IAMB	04 27 51.0	
MOBC	Moresby Island	35.87	67	IAMB	IAMB	04 43 01.5	
MOBC	comp=Z,57nm,1.1s			IAMS_20	IAMS_20	04 43 01.5	
BEAVL	Fort Liard	35.88	54	P	P	04 27 48.2	+0.5
BEAVL	comp=Z,3um,19.0s			S	S	04 33 25.8	+1.6
RUBB	Prince Rupert	36.14	65	IAMS_20	IAMS_20	04 41 53.0	
RUBB	comp=Z,3um,20.0s			P	P	04 27 52.2	+0.4
KOTAN	Kotanelee Air	36.35	53	P	P	04 33 33.9	+2.4
KOTAN	baz=296,SNR=9.0			S	S	04 27 52.8	+0.7
MOY	Mondy	36.36	290	eP	pmax	04 27 52.1	-0.1
MOY	comp=Z,15nm,2.7s			S	S	04 33 33.3	+1.0
TOAD	Toad River Com	36.39	56	P	P	04 27 52.1	-0.1
TOAD	baz=297,SNR=168			S	S	05 06 42.7	
H11N2	WAKE ISLAND Hy	36.42	176	T	T	05 06 44.6	
H11N3	WAKE ISLAND Hy	36.43	176	T	T	05 06 46.0	
H11N1	WAKE ISLAND Hy	36.44	176	T	T	04 27 58.0	-0.6
HHC	Hu-ho-hao-te	37.12	268	eP	pP	04 28 04.0	+0.4
HHC	comp=Z,21nm,0.5s			pP	pP	04 29 25.0	+1.5
HHC	comp=Z,100nm,4.8s			S	S	04 33 41.8	-2.0
HHC	comp=Z,7um,15.3s			ScS	pmax	04 38 09.3	-2.5
HHC	comp=Z,5um,13.8s			pmax	pmax		
HHC	comp=Z,8um,13.0s			LR	LR		
TIA	Taian	37.30	258	P	P	04 27 51.8	-8.3
TIA	comp=Z,210nm,6.9s			S	S	04 33 42.0	-4.4
TIA	comp=N,6um,17.2s			LR	LR		
TIA	comp=E,9um,17.2s			LR	LR		
HNS	HongShan	37.77	262	P	P	04 28 04.0	0.0
HNS	comp=Z,11um,18.2s			S	S	04 33 59.0	+5.6
HNS	comp=Z,16um,16.7s			SS	SS	04 36 25.3	-8.5
HNS	comp=Z,8um,16.6s			LR			



AAK	comp=Z,1um,18.0s	55.86	297	P	P	04 30 26.1 +0.5
AAK	Ala-Archa	55.86	297	P	P	04 30 26.1 +0.5
AAK	Ala-Archa	55.86	297	LR	LR	04 30 25.9 +0.3
AAK	Ala-Archa	55.86	297	P	P	04 30 26.2 -1.1
AAK	Ala-Archa	55.86	297	eP	eP	04 30 24.2 +0.5
AAK	Ala-Archa	55.86	297	pmx	pmx	
AAK	Ala-Archa	55.86	297	iP	P	04 30 26.1 +0.5
MOR8	Moi Rana	55.89	346	eP	P	04 30 24.0 -1.2
P16A	Preston Nutter	55.93	68	IAMB	IAMB	04 30 29.3
P16A	comp=Z,35nm,1.0s			IAMS_20	IAMS_20	04 54 40.6
Q16A	Castle Valley	55.97	70	IAMB	IAMB	04 30 29.5
Q16A	comp=Z,41nm,0.9s			IAMS_20	IAMS_20	04 54 52.8
Q16A	comp=Z,1um,19.0s			IAMS_20	IAMS_20	04 54 52.8
SLVN	Son La	56.08	257	P	P	04 30 27.4 +0.2
TNCH	TengChong	56.12	265	P	P	04 30 28.3 +0.6
TNCH	comp=Z,2um,22.0s			S	S	04 38 15.3 -0.4
TNCH	comp=Z,2um,22.0s			ScS	ScS	04 40 14.5 -1.4
TNCH	comp=Z,290nm,5.9s			pmx	pmx	
TNCH	comp=Z,2um,18.3s			LR	LR	
TNCH	comp=Z,4um,17.4s			LR	LR	
TNCH	comp=Z,4um,18.3s			LR	LR	
EKS2	Erkin-Say	56.20	297	P	P	04 30 28.3 +0.3
LCMT	Little Creek M	56.28	73	IAMS_20	IAMS_20	04 54 28.3
EPL0	Expemetal L	56.34	50	IAMS_20	IAMS_20	04 58 48.9
V12A	Nelson	56.38	75	IAMS_20	IAMS_20	04 52 35.9
AGMM	Agassiz Nation	56.45	52	IAMS_20	IAMS_20	04 55 21.8
KNB	Kanab	56.51	71	IAMS_20	IAMS_20	04 54 46.1
O20A	White River C1	56.59	67	IAMS_20	IAMS_20	04 55 32.0
LSA	Lhasa	56.62	275	IAMB	IAMB	04 30 34.3
LSA	Lhasa	56.62	275	P	P	04 30 32.2 +0.6
AML	Almayashu	56.64	297	P	P	04 30 32.2 +0.8
PFO	Pinyon Flats O	57.09	78	P	P	04 30 33.6 -0.8
PFO	Pinyon Flats O	57.09	78	IAMS_20	IAMS_20	04 52 26.9
PFO	comp=Z,1um,20.0s			LR	LR	04 52 57.9
PFO	Pinyon Flats O	57.09	78	LR	LR	04 52 57.9
PFO	Pinyon Flats O	57.09	78	P	P	04 30 33.6 -0.8
PFO	Pinyon Flats O	57.09	78	pmx	pmx	
U15A	North Rim	57.23	72	IAMS_20	IAMS_20	04 54 58.2
PV21	Cone Mtn., Par	57.38	68	IAMB	IAMB	04 30 39.0
KSH	Kashi	57.43	293	P	P	04 30 43.5 +6.8
KSH	Kashi	57.43	293	S	S	04 38 37.0 +4.4
KSH	comp=Z,13nm,1.5s			pmx	pmx	
KSH	comp=Z,180nm,7.4s			LR	LR	
KSH	comp=Z,5um,15.8s			LR	LR	
KSH	comp=Z,6um,14.1s			LR	LR	
KK31	Karatay Array	57.48	300	IAMB	IAMB	04 30 39.6
KKAR	Karatay Array	57.48	300	P	P	04 30 36.6 -0.3
KKAR	Karatay Array	57.48	300	IAMB	IAMB	04 30 39.6
KKAR	Karatay Array	57.48	300	P	P	04 30 36.6 -0.3
PV14	Lion Creek, Pa	57.49	69	IAMB	IAMB	04 30 40.0
PV22	Blue Mesa, Par	57.50	68	IAMB	IAMB	04 30 39.9
AKTO	Aktyubinsk	57.51	313	LR	LR	04 56 17.7
PV16	Nyswonger Mesa	57.50	68	IAMB	IAMB	04 30 40.7
AB31	Akbulak array	57.62	311	IAMB	IAMB	04 30 40.0
ABKAR	Akbulak array	57.62	311	P	P	04 30 37.3 -0.4
ABKAR	Akbulak array	57.62	311	IAMB	IAMB	04 30 40.0
PV07	Paradox Valley	57.64	68	IAMB	IAMB	04 30 41.0
DAV	Davao City (W)	57.65	227	IAMS_20	IAMS_20	04 56 54.8
DAV	Davao City (W)	57.65	227	P	P	04 30 40.1 +1.7
PV03	Paradox Valley	57.67	68	IAMB	IAMB	04 30 41.2
BRLS	Borolday	57.86	300	eP	P	04 30 41.8 +2.2
BRLS	Borolday	57.86	300	eP	P	04 30 41.9 +2.2
SUSD	Miller	57.94	57	IAMS_20	IAMS_20	04 56 01.4
CBX	Cerro Bola	57.96	79	IAMB	IAMB	04 30 59.5
BLYC	Blythe	58.04	76	IAMS_20	IAMS_20	04 57 07.9
F33A	5 Mile Ranch	58.11	54	IAMB	IAMB	04 30 43.8
ISCO	Idaho Springs	58.18	65	IAMB	IAMB	04 30 45.4
ISCO	comp=Z,2um,22.0s			IAMS_20	IAMS_20	04 57 05.1
FINES	FINESS Array B	58.23	338	P	P	04 30 41.6 -0.2
FINES	FINESS Array B	58.23	338	P	P	04 30 41.5 -0.4
FINES	comp=Z,8.5nm,0.8s,baz=32,slo=7.6,SNR=18			LR	LR	04 58 27.4
FINES	FINESS Array B	58.23	338	P	P	04 30 41.9 +0.1
FINES	comp=Z,9.0nm,0.8s			pmx	pmx	
GLA	Glamis	58.40	77	IAMS_20	IAMS_20	04 53 39.6
IUG	Iuzhny	58.43	299	eP	P	04 30 44.0 +0.3
IUG	comp=Z,30nm,0.8s			pmx	pmx	
IUG	Iuzhny	58.43	299	eP	P	04 30 44.1 +0.3
CHM	Chimkent	58.51	300	eP	P	04 30 44.5 +0.4
CHM	comp=Z,27nm,1.0s			MLR	MLR	
CHM	comp=Z,1um,14.0s			P	P	04 30 44.5 +0.4
CHM	comp=Z,27nm,1.0s			LR	LR	04 58 53.5
KUQ	Kuujjuuaa	58.53	30	IAMS_20	IAMS_20	04 58 59.1
EYMN	Ely	58.61	50	IAMS_20	IAMS_20	05 00 17.0
TBO	Thunder Bay	58.95	48	IAMB	IAMB	04 30 48.3
TBO	comp=Z,2um,20.0s			IAMS_20	IAMS_20	04 58 11.8
K30B	Basset	58.97	59	IAMS_20	IAMS_20	04 55 59.7
Q24A	Divida	59.04	65	IAMS_20	IAMS_20	04 57 21.0
OGNE	Odessa	59.10	62	IAMS_20	IAMS_20	04 57 44.4
X16A	Lo Mia Camp, P	59.20	73	IAMS_20	IAMS_20	04 55 01.5
BORG	Borgarnes	59.35	3	IAMS_20	IAMS_20	05 00 21.9
BORG	Borgarnes	59.35	3	LR	LR	04 58 11.0
RAF	Rauma	59.48	340	eP	P	04 30 51.5 +1.0
ECSD	EROS Data Cent	59.57	56	IAMB	IAMB	04 30 52.9
BTK	Batken	59.63	297	IAMB	IAMB	04 30 55.0
E38A	The Farm, Brul	59.63	51	IAMS_20	IAMS_20	04 58 01.8

MEF	comp=Z,2um,19.0s	59.70	338	eP	P	04 30 52.2 +0.2
SDCO	Great Sand Dun	59.79	67	IAMS_20	IAMS_20	04 57 43.8
X18A	Snowflake	59.91	72	IAMB	IAMB	04 30 57.4
X18A	comp=Z,37nm,1.0s			IAMS_20	IAMS_20	05 00 23.2
BELG	Belogoroye	59.91	321	LR	LR	04 59 57.9
BELG	Belogoroye	59.91	321	iP	P	04 30 53.6 0.0
BELG	comp=Z,33nm,1.1s			pmx	pmx	
SPMN	Starina on St	60.15	53	IAMB	IAMB	04 30 57.0
KSCO	Kaye Shedlock	60.28	64	IAMB	IAMB	04 30 59.0
KSCO	comp=Z,36nm,0.8s			IAMS_20	IAMS_20	04 57 45.7
214A	Organ Pipe Nat	60.34	76	IAMB	IAMB	04 31 00.2
MOS	Moscow	60.35	329	eP	P	04 30 55.7 -0.8
MOS	comp=Z,2um,18.7s,baz=38,slo=39			eS	S	04 31 40.0
MOS	comp=Z,100nm,0.9s			pmx	pmx	04 39 09.7 0.0
MOS	comp=Z,55nm,0.8s			pmx	pmx	
MOS	comp=Z,2um,15.0s			MLR	MLR	
EVN	Everest	60.38	277	IAMB	IAMB	04 31 15.5
DOMB	Doomb	60.55	347	eP	P	04 30 57.6 -0.3
BGNE	Belgrade	60.64	59	IAMS_20	IAMS_20	04 57 52.9
NRS	Narsarsuaq	60.72	16	IAMS_20	IAMS_20	04 59 33.0
VSU	Vasula	60.78	336	iP	P	04 30 58.5 -0.9
VSU	comp=Z,42nm,0.9s			eP	P	04 31 00.1 +0.7
VSU	Vasula	60.81	66	IAMB	IAMB	04 31 02.8
T25A	Trinidad	60.82	66	IAMS_20	IAMS_20	04 55 46.1
CHTO	Chiang Mai	60.84	260	P	P	04 31 00.8 +0.4
CHTO	comp=Z,34nm,1.1s			IAMB	IAMB	04 31 03.1
CHTO	Chiang Mai	60.84	260	P	P	04 31 00.5 0.0
CHTO	Chiang Mai	60.84	260	P	P	04 31 00.8 +0.4
CHTO	comp=Z,34nm,1.1s			pmx	pmx	
CHTO	comp=Z,3um,19.0s			MLR	MLR	
HNLV	HANLEY	60.96	286	eP	P	04 31 01.9 +0.1
NC303	NORSAR Array S	61.03	345	IAMB	IAMB	04 31 03.1
L34A	Svendsen Farm	61.05	57	IAMS_20	IAMS_20	04 59 59.7
COWI	Conover	61.06	50	IAMB	IAMB	04 31 02.8
NC204	NORSAR Array S	61.07	346	IAMB	IAMB	04 31 03.4
NC405	NORSAR Array S	61.09	345	IAMB	IAMB	04 31 03.4
CM31	Chiang Mai Arr	61.13	260	P	P	04 31 03.1 +0.7
CM31	Chiang Mai Arr	61.13	260	IAMB	IAMB	04 31 06.6
CM31	Chiang Mai Arr	61.13	260	P	P	04 31 02.8 +0.4
CMAR	Chiang Mai Arr	61.13	260	P	P	04 31 03.2 +0.8
CMAR	Chiang Mai Arr	61.13	260	P	P	04 31 02.9 +0.5
CMAR	comp=Z,14nm,0.9s,baz=22,slo=7.3,SNR=36			LR	LR	04 58 46.6
CMAR	Chiang Mai Arr	61.13	260	iP	P	04 31 03.4 +1.0
CMAR	comp=Z,13nm,0.8s			pmx	pmx	
TUC	Tucson	61.16	74	P	P	04 31 02.6 0.0
TUC	Tucson	61.16	74	P	P	04 31 02.6 0.0
TUC	comp=Z,13nm,1.2s			MLR	MLR	
TUC	comp=Z,1um,19.0s			MLR	MLR	
MTSE	Matsula	61.19	338	eP	P	04 31 04.1 +1.9
OBNS	Obninsk	61.19	329	LR	LR	05 01 17.1
OBNS	comp=Z,2um,18.0s,baz=328,slo=40			P	P	04 31 02.1 -0.2
OBNS	Obninsk	61.19	329	iP	P	04 31 13.4
OBNS	comp=Z,3um,18.7s,baz=37			e	e	04 31 43.0
OBNS	comp=Z,3um,18.7s,baz=37			eS	S	04 33 18.3
OBNS	comp=Z,3um,18.7s,baz=37			eS	S	04 39 22.7 +2.3
OBNS	comp=Z,3um,18.7s,baz=37			eS	S	04 43 23.4 +3.8
OBNS	comp=Z,32nm,1.2s			MLR	MLR	
NB2	NORSAR Subarra	61.23	345	P	P	04 31 01.9 -0.6
NB2	comp=Z,5um,1.0s,baz=17,slo=6.9			P	P	04 31 01.9 -0.6
NB2	NORSAR Subarra	61.23	345	P	P	04 31 01.9 -0.6
NOA	NORSAR Array B	61.23	345	P	P	04 31 02.0 -0.6
NOA	comp=Z,13nm,0.7s,baz=17,slo=6.8,SNR=49			LR	LR	05 02 01.5
NOA	comp=Z,786nm,18.2s,baz=5.0,slo=40			P	P	04 31 02.0 -0.6
G40A	NORSAR Array B	61.23	345	P	P	04 31 02.0 -0.6
G40A	Rib Lake	61.26	51	IAMS_20	IAMS_20	04 59 45.1
NB000	NORSAR Array S	61.30	346	IAMB	IAMB	04 31 04.8
DLV	Lat	61.41	247	IAMS_20	IAMS_20	04 57 08.6
ANMO	Albuquerque	61.44	69	P	P	04 31 04.2 -0.4
ANMO	Albuquerque	61.44	69	IAMB	IAMB	04 31 07.1
ANMO	comp=Z,16nm,0.9s			IAMS_20	IAMS_20	05 02 24.5
ANMO	Albuquerque	61.44	69	LR	LR	04 57 22.2
ANMO	comp=Z,908nm,18.6s,baz=58,slo=36			P	P	04 31 04.2 -0.4
ANMO	Albuquerque	61.44	69	P	P	04 31 04.2 -0.4
ANMO	comp=Z,16nm,1.0s			pmx	pmx	
ANMO	comp=Z,1um,18.0s			MLR	MLR	
JAY	Jayapura	61.55	207	LR	LR	04 57 44.1
SIMJ	Simiganj	61.60	298	P	P	04 31 05.0 -0.5
SIMJ	comp=Z,25nm,1.1s			IAMB	IAMB	04 31 08.7
HFS	Hagfor	61.73	344	P	P	04 31 04.6 -1.3
HFS	comp=Z,12nm,0.8s,baz=46,slo=4.3,SNR=29			LR	LR	04 59 10.2
HFS	comp=Z,2um,20.8s,baz=22,slo=37			LR	LR	
F42A	Maple Grove Fa	61.76	49	IAMS_20	IAMS_20	04 58 58.2
SCHO	Schefferville	61.80	31	P	P	04 31 05.0 -1.4
SCHO	comp=Z,12nm,0.7s,baz=345,slo=7.3,SNR=20			LR	LR	05 00 21.3
BRDH	Baridaha	61.82	269	LR	LR	04 58 42.2
Y22D	IRIS PASCALLI	61.86	70	IAMS_20	IAMS_20	04 57 55.9
CBKS	Cedar Bluff	61.87	62	IAMS_20	IAMS_20	04 56 29.7
DUN6	Lazy B Ranch	61.88	73	IAMB	IAMB	04 31 10.4
I40A	Norwalk	62.17	52	IAMB	IAMB</	













Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KURBB Kurchatov Arra, BVAR Borovoye Array, FINES Fines Array B, etc.

IDC 27 05:15:38.4+0.9, 32.13Sx178.63W, h0km, mb4.5/4, mbtmtp4.5/4, Error ellipse: s-maj=37.9km s-min=29.7km

WEL 27 05:15:40.5+1.1, 33.3Sx107.17W, h2.1, h33km, M4.7/11, mB5.1/6, ML5.2/12, MLV5.0/11, Mw(mB)4.5/8, Error ellipse: s-maj=29.1km s-min=6.5km az=111.9, confirmed

NEIC 27 05:16:20.7+2.1, 33.39Sx109.179W, h3.0E, h277km, 13km, mb4.3/17, Error ellipse: s-maj=21.7km s-min=10.3km

ISC 27 05:15:40.5+0.9, 32.83Sx0.07x178.2W, h2.0, h34km, n54, r1549/49, mb4.7/14, 4C, South of Kermadec Islands

Main station list table for the first section, including stations like GLKZ Green Lake, RAO Raoul Island, RUGZ Raukumara Rang, etc.

Station list table for the second section, including stations like COEN Coen, ASAR Alice Springs, WRB Warramunga Arr, etc.

Station list table for the third section, including stations like MTN Manton Dam, FITZ Fitzroy Crossi, MBWA Marble Bar, etc.

NEIC 27 05:31:25.0+0.6, 18.3N, 0.3E, 67.9W, h0.1, h118km, 13km, ML2.1/20, MD3.0/14(RSPR), Error ellipse: s-maj=46.2km

RSPR 27 05:31:26.8, 18.28N, 67.86W, h109km, 1km, MD3/14, SDD 27 05:31:27.9, 1.2, 18.05N, 67.98W, h86km, 14km, MD3.1, ML1.9, MW2.2

Station list table for the fourth section, including stations like IDE Isla Desecheo, CRPR Cabo Rojo, AGPR Aguadilla, etc.

Main station list table for the second section, including stations like AGPR Aguadilla, AGPR Aguadilla, AGPR Aguadilla, etc.

KRSC 27 05:38:16.4+0.9, 56.01N, 164.11E, h15km, 13km, M13.5, Komandorsky Islands Region

Station list table for the third section, including stations like KBTR Krutoberegovo, KBG Krutoberegovo, BKI Bering, etc.

IDC 27 05:45:25.0+2.0, 27.07N, 97.24E, h0km, mb3.4/4, mbtmtp3.5/4, Error ellipse: s-maj=77.5km s-min=28.4km

Station list table for the fourth section, including stations like SONM Songo Array, MKAR Makanchi Array, KURBB Kurchatov Arra, etc.

DJA 27 05:46:22.0+0.5, 6.5S, 4.12E, h550km, 8km, M4.5/21, mB5.0/13, mb4.8/18, MLV4.9/21, Mw(mB)4.3/13

IDC 27 05:46:23.2+1.0, 6.28S, 125.12E, h554km, 13km, mb3.5/15, mbtmtp4.5/21, Error ellipse: s-maj=20.5km s-min=8.1km

NEIC 27 05:46:23.3+1.4, 6.27S, 0.07x125.13E, 0.09, h552km, 11km, mb4.6/42, Error ellipse: s-maj=16.6km s-min=2.5km

ISC 27 05:46:22.8+0.4, 6.31S, 0.05x125.08E, 0.07, h550km, n131, r098/135, mb4.4/44, 2C, Banda Sea

Station list table for the fifth section, including stations like BBSI Bau Bau, SOEI Soe, MMRI Maumere, etc.

Main station list table for the third section, including stations like KAPI Kappang, KAPI Kappang, KAPI Kappang, etc.

KULM Kulim, KULM Kulim, NWAO Narrogin (SRO), NWAO Narrogin (SRO)

Station list table for the fourth section, including stations like RPSI Rantau Prapat, PSI Palang, SRIT Sriat, etc.

WJH Wujun, NJ2 Nanjing, ENH Enshi, PZH Panzhihua

Station list table for the fifth section, including stations like XAN Xi'an, XAN Xi'an, XAN Xi'an, etc.

HNS HongShan, PALK Pallekele, LZH Lanzhou

HHC Hu-ho-hao-te, HHC Hu-ho-hao-te, HHC Hu-ho-hao-te

EVN Everest, EVN Everest, EVN Everest

XLT XiLinHaoTe, XLT XiLinHaoTe, XLT XiLinHaoTe

USRK Ussuriysk Arr, USRK Ussuriysk Arr, USRK Ussuriysk Arr

GTA Gaotai, GTA Gaotai, GTA Gaotai

ULN Ulanbaatar, HEH Heihe, SONMI Songo Array

Station list table for the sixth section, including stations like ULN Ulanbaatar, HEH Heihe, SONMI Songo Array

27d 6h

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like Songino Array, Urumqi, Nilore, Kashi, Taragay, Kyrgyz, Kajisay, Makanchi Array, etc.

CATAC 27 05:54:32.8 ± 1.1, 8°N, 8°E, h20km, 4km, M2, 9/6, ML2.9/6, Error ellipse: s-maj=16.6km s-min=12.3km az=20.0, confirmed

UPA 27 05:54:33.1 ± 0.6, 8°38'N, 82°82'W, h20km, 3km, ML2.6 ISC 27 05:54:33.1 ± 1.6, 8°38'N, 82°81'W, 0.06s, h3km, 7km, n15, c049/20, Panama-Costa Rica border region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like La Esperanza, Canoa, Volcan, Paso Ancho, Alto Boquete, Durika, Ochoal, Lucha 2, Pocosol, etc.

IDC 27 05:59:22.4 ± 3.9, 53°72'N, 88°11'E, h0km, mbtmp=2.8/2, ML2.6/2, Error ellipse: s-maj=36.8km s-min=19.8km az=49.0

ASRS 27 05:59:19.0 ± 1.5, 53°74'N, 88°27'E, h0km, M2.5, The earthquakes of Russia in 2019, Obninsk, GS RAS, 214 p + CD-ROM, 2021, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like INFRA, Zalesovo, ZALV, Kurchatov, Makanchi Array, etc.

KRSC 27 06:02:36.5 ± 1.3, 55°96'N, 164°27'E, h15km, 26km, M4.1, IDC 27 06:02:37.0 ± 1.0, 55°69'N, 165°13'E, h0km, mb3.9/14, mbtmp3.8/15, ML2.3/1, MS3.5/8, Error ellipse: s-maj=28.4km s-min=16.3km az=160.0

NEIC 27 06:02:40.2 ± 1.4, 56°1'N, 0°2'164.84E, 0'06, h10km, 2km, mb4.1/23, Error ellipse: s-maj=28.1km s-min=3.0km az=168.0

MOS 27 06:02:41.5 ± 0.5, 56°01'N, 163°69'E, h12km, mb4.6/10, Error ellipse: s-maj=7.2km s-min=5.9km az=136.6

ISC 27 06:02:38.5 ± 0.5, 55°99'N, 0°04.164'28E, 0'04, h16km, n148, c235/113, mb4.2/37, MS3.4/7, 6C-1D, Komandorsky Islands region

Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like Krutoberegovo, Bering, Semkarok, etc.

2019 JUN

Main table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like Loginova, Mys Kozlova, Klyuuchi, Krestovskiy, etc.

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Table with columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters. Includes stations like Ulaanbaatar, Songino Array, WAKE ISLAND, etc.



Table with columns: DRKO Durika, 0.98 334 P, Pn, 06 09 31.8 -0.3, etc. Includes stations like Durika, Pejibaye, Ochoal, etc.

IDC 27 06:09:19.7,2.6,30.735x177.30W,h0km,mb3.6/2, mbtm3.6/3,ML3.0/1, Error ellipse: s-maj=60.5km s-min=25.9km az=93.0, Kermadec Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Raoul Island, Urewera, etc.

IDC 27 06:09:35.3,1.9,2.68S,138.42E,h0km,mb3.8/6, mbtm3.8/9,ML3.5/3, Error ellipse: s-maj=25.1km s-min=21.0km az=113.0

DJA 27 06:09:41.4,0.5,2.5,13.9E,h61km,11km, M3.8/5, ML3.5/3

ISC 27 06:09:35.3,1.9,2.68S,138.43E,0.04,h7km,13km, n14,c148/20,mb3.7/5,Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Sarmi, Jayapura, etc.

IDC 27 06:10:13.9,278.0,19.71N,157.60W,h0km, Error ellipse: s-maj=101.3km s-min=35.8km az=94.0, Hawaiian Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like HAWAII INFRASO, Midway Islands, Wake Island, etc.

Table with columns: KSBAR Backryungdo, 1.15 222 P, P, 06 20 13.3 -1.0, etc. Includes stations like Backryungdo, Yeonpyeongdo, etc.

COA Coachella, 0.54 14 P, P, 06 20 31.9 -0.3, etc. Includes stations like Coachella, Westside Schoo, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Tjeon, Mudanjiang, etc.

ECX 27 06:21:20.1,0.5,32.34N,115.27W,h8km,1km,MD3.1, ML3.3

PAS 27 06:21:20.5,2.0,32.28N,102.115,23W,0.02,h27km,7km, ML3.2/63,ML3.1/30/NEIC, Error ellipse: s-maj=3.3km s-min=2.0km az=195.0

NEIC 27 06:21:21.2,1.8,32.32N,102.115,23W,0.02,h24km,9km, Error ellipse: s-maj=2.7km s-min=2.2km az=183.0

ISC 27 06:21:21.3,0.8,32.34N,102.115,28W,0.17,h17km,4km, n84,c099/114,8C,12AL,California-Baja California border region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Cerro Prieto, Mexicali, etc.

IGL 27 06:30:46.1,36.35N,12.33W,h10km,ML3.6

MDD 27 06:30:49.6,0.9,36.90N,12.27W,h0km,ML4.2/16, M,mb3.5/4, Error ellipse: s-maj=7.6km s-min=5.6km az=56.0

IGL 27 06:30:50.3,36.90N,12.27W,h2km,ML2.2

INMG 27 06:30:51.2,1.2,36.67N,12.60W,h11km,6km,ML2.5, Error ellipse: s-maj=4.0km s-min=2.1km az=128.0

#DIST RANGE: REGIONAL #PMA REGION: Goringe

ISC 27 06:30:47.5,2.9,36.88N,108.123W,0.1,110km,n77,c2606/12,18C,Azores-Cape St. Vincent Ridge

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Vila Bisbo, Sao Teotonio, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Vila Bisbo, Sao Teotonio, etc.

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Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Vila Bisbo, Sao Teotonio, etc.

27d 6h

Table with columns for station name, frequency, power, and other technical details. Includes stations like PACT, MESSJ, Castro Verde, Barranco-do-Ve, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like EADA Adamuz, EAGO Agolada(Pontev), EAGO San Pablo, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like EHD Haiduan, SX11 Grass Mountain, NWL1 Wulai, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WHF, NNSB, EDH, OWD, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like MXZ, PKGZ, PUKETTI, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like FORF, WRA, WRR, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like LESP3, MLIR3, MLIR3, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, PRGZ, SNGZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ASRS, NNC, IDC, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, PRGZ, SNGZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CHIPN, MOPA, MOPA, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, PRGZ, SNGZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like MUSN, PILG, PILG, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, PRGZ, SNGZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KRI, KRI, HRAO, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like URZ, PRGZ, SNGZ, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like I46RU, ZALV, ZALV, etc.

ASAR Alice Springs 40.91 276 P 07 18 28.2 -2.8
ASAR Alice Springs 40.91 276 P 07 18 20.2 -0.8

27d 8h

Table with columns: BR/BS, Station Name, Time, Res, ISC. Includes stations like Borolday, Karagaybulak, Salom-Alik, etc.

IDC 27 07:47:39.5:0.9, 2.67S, 138.46E, h0km, mb3.7/7, mbmp4.3/7.9, ML3.5/2, MS3.3/1, Error ellipse: s-maj=24.8km s-min=21.7km az=81.0

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Jayrapur, Warrunganga Arr, Alice Springs, etc.

ASRS 27 07:50:05.0:1.1, 53.75N-88.18E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 27 07:50:10.1:3.1, 53.68N-88.10E, h0km, mbmp2.9/2, ML2.5/2, Error ellipse: s-maj=24.8km s-min=17.0km az=63.0, Southwestern Siberia

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Zalesovo Beam, Kurchatov Arr, etc.

GCG 27 07:55:58.4:0.9, 14.14N-91.58W, h76km, 13km, MD3.8, ML3.3

CATAC 27 07:55:58.5:0.7, 14.14N-91.58W, h30km, 9km, M3.1/12, ML3.3/12, Error ellipse: s-maj=13.3km s-min=8.1km az=44.1, confirmed

SNET 27 07:55:59.0:0.9, 13.98N-91.43W, h10km, 10km, ML3.0

ISC 27 07:55:56.0:2.3, 13.82N-0.008-91.71W, h0.03, h23km, 17km, n37, r=153/47, 1D, Near coast of Guatemala

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like El Palmar, Qui, Retalhuleu, etc.

2019 JUN

Table with columns: RTAL, Station Name, Time, Res, ISC. Includes stations like Retalhuleu, El Palmar, Qui, etc.

IDC 27 08:01:20.1:0.8, 28.32N-105.11E, h0km, mb4.0/11, mbmp4.0/13, ML4.0/2, MS3.3/6, Error ellipse: s-maj=24.0km s-min=15.8km az=59.0

ISC 27 08:01:23.3:0.8, 28.4N-101.105E, h1.01, h9km, n17, az=87.0/13, mb4.0/11, MS3.3/5, Sichuan

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Chiang Mai Arr, Songo Array, Korey Array, etc.

ASRS 27 08:04:27.0:1.8, 53.58N-86.90E, h0km, M2.5, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 27 08:04:29.5:3.0, 53.62N-86.95E, h0km, mbmp2.6/2, ML2.2/2, Error ellipse: s-maj=28.0km s-min=16.0km az=72.0, Southwestern Siberia

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Zalesovo Beam, Kurchatov Arr, etc.

ASRS 27 08:17:19.0:1.7, 53.73N-90.96E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 27 08:17:24.5:3.9, 53.66N-90.90E, h0km, mbmp2.7/3, ML2.3/3, Error ellipse: s-maj=36.3km s-min=26.1km az=30.0, Southwestern Siberia

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Zalesovo Beam, Kurchatov Arr, etc.

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Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Zenema, Zafarana, Abu Rudays, etc.

IDC 27 08:22:55.5:1.5, 6.41S, 131.12E, h0km, mb4.0/4, mbmp4.1/7, ML4.3/3, MS3.3/4, Error ellipse: s-maj=83.6km s-min=21.7km az=77.0

NEIC 27 08:23:02.0:1.2, 6.27S:0.05x131.3E:0.1, h37km, 8km, mb4.6/11, Error ellipse: s-maj=15.8km s-min=7.8km az=88.0

ISC 27 08:23:03.5:0.7, 6.58S:0.06x131.0E:0.1, h62km, n33, az=235/27, mb4.3/9, Banda Sea

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Saui, Faki, Manton Dam, etc.

ASRS 27 08:27:37.3:0.8, 4.4N:4.9E, h17km, 7km, M3.9/8, ML3.3/9

IDC 27 08:27:40.3:7.0, 3.97N-95.80E, h84km, 52km, mb3.5/8, mbmp3.8/10, ML3.3/1, Error ellipse: s-maj=86.3km s-min=14.7km az=59.0

NEIC 27 08:27:41.1:1.8, 4.2N:0.1x96.09E:0.09, h75km, 9km, mb4.2/7, Error ellipse: s-maj=19.8km s-min=3.4km az=22.0

ISC 27 08:27:38.7:0.6, 4.02N:0.06x95.96E:0.06, h50km, n43, az=234/45, mb4.1/13, Northern Sumatra

Table with columns: Code, Station Name, Time, Res, ISC. Includes stations like Meulaboh, Aceh, Meulaboh, etc.









Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like TAMC, OCAC, SPBC, ZARC, etc.

IDC 27 10:31:22.0±0.6, 0.61S, 121.96E, h0km, mb4.2/15, mbmp4.2/17, ML4.4, 2M3.5/13, Error ellipse: s-maj=27.4km s-min=12.2km az=76.0

DJA 27 10:31:25.0±0.2, 1.1S, 122.12E, h10km, M4.6/25, mB5.1/6, mb4.9/6, MLV4.5/25, Mw(mb)4.5/6

NEIC 27 10:31:27.1±1.6, 0.69S, 0.07E, 121.89E±0.06, h2gkm, 7km, mb4.5/19, Error ellipse: s-maj=11.5km s-min=7.0km az=214.0

ISC 27 10:31:29.0±0.5, 0.71S, 0.05E, 121.85E±0.05, h49km, n95, 1334/87, mb4.4/24, MS3.4/8, Minahassa Peninsula, Sulawesi

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like APSI, LUWI, MRSI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like LBMI, SGSI, TMTI, etc.

IDC 27 10:45:11.2±0.9, 2.54S, 138.42E, h0km, mb3.9/7, mbmp3.9/10, ML3.7/3, MS3.3/4, Error ellipse: s-maj=24.3km s-min=18.9km az=97.0

NEIC 27 10:45:13.4±2.0, 2.65S, 0.1E, 138.43E±0.06, h10km, 1km, mb4.0/7, Error ellipse: s-maj=20.9km s-min=9.9km az=356.0

DJA 27 10:45:15.6±0.3, 3.3S, 139.9E, h10km, M3.9/7, MLV3.9/7

ISC 27 10:45:15.0±0.6, 2.63S, 0.06E, 138.40E±0.04, h32km, n27, 1993/31, mb3.9/3, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like KURK, KKRK, MA2, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like SMPI, GENI, SRPI, etc.

PRE 27 10:50:18.0±0.7, 2.37S, 27.53E, h0km, ML2.5, Suspected explosion

BGSI 27 10:50:20.5±2.0, 2.37S, 27.69E, h0km, 25km, ML2.4

ISC 27 10:50:17.9±0.8, 2.37S, 27.03E, h0km, n13, 0855/24, South Africa

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC.

IDC 27 10:54:48.9±4.2, 2.79S, 138.60E, h0km, mb3.2/2, mbmp3.4/4, ML3.4/2, Error ellipse: s-maj=141.1km s-min=31.4km az=89.0, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like WRA, FITZ, ASAR, etc.



27d 11h

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Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like KOUNC, MLZ, WHZ, LHI, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like MTSU, HTT, HTT, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like GUMU, SOEI, SOEI, etc.



27d 11h

CMB	comp=Z,72nm,1.6s	IAMS_20	IAMS_20	11 47 26.9			
KHMM	comp=Z,1.1um,22.0s	87.50	39	P	IAMB	11 17 44.6	0.0
KHMM	comp=Z,54nm,1.3s			P	IAMB	11 17 56.7	
KHMM	comp=Z,12um,20.0s				IAMS_20	11 49 27.7	
SUJ	comp=Z,12um,20.0s	87.52	320	P	S	11 17 44.8	+0.3
SUJ	comp=Z,489nm,1.8s			S	AMb	11 28 23.0	-2.1
SUJ	comp=Z,10um,24.5s				AMS	AMS	
WHN	comp=Z,10um,24.5s	87.61	308	P	S	11 17 45.3	+0.2
WHN	comp=Z,490nm,1.9s			S	SS	11 28 25.0	-1.4
WHN	comp=Z,6um,14.4s			SS	pmax	11 34 15.3	+2.2
WHN	comp=Z,5um,15.9s				LR	LR	
WHN	comp=Z,13um,17.7s	87.63	49		IAMS_20	11 52 37.7	
GLA	comp=Z,14um,18.0s	87.69	128		IAMS_20	11 48 42.2	
MT08	comp=Z,14um,18.0s	87.70	42	P	P	11 17 44.6	-0.8
AFDM	comp=Z,12um,21.0s	87.70	337	eP	S	11 17 46.7	+1.7
AFDM	comp=Z,12um,21.0s			eS	P	11 28 28.2	+1.8
TYV	comp=Z,32nm,0.9s				pmax	pmax	
TYV	comp=Z,400nm,3.1s				smax	smax	
TYV	comp=N,7.0nm,1.8s				smax	smax	
TYV	comp=E,13nm,1.8s				smax	smax	
TYV	comp=N,700nm,4.2s				smax	smax	
GSC	comp=E,1um,4.2s	87.79	46	IAMB	IAMB	11 17 57.6	
GSC	comp=Z,49nm,1.0s				IAMS_20	11 52 52.8	
HSIG	comp=Z,13um,19.0s	87.80	54	IAMS_20	IAMS_20	11 53 01.5	
KSXB	comp=Z,13um,19.0s	88.09	38	IAMS_20	IAMS_20	11 48 10.4	
MDJ	comp=Z,13um,19.0s	88.11	326	IAMS_20	IAMS_20	11 55 05.1	
MDJ	comp=Z,13um,19.0s	88.11	326	S	S	11 28 22.3	-8.4
MDJ	comp=Z,13um,19.0s	88.11	326	SS	SS	11 34 27.0	+6.9
MDJ	comp=Z,86nm,1.7s				LR	LR	
MDJ	comp=N,8um,24.8s				LR	LR	
MDJ	comp=E,6um,24.2s				LR	LR	
MDJ	comp=Z,12um,22.5s	88.11	326	P	P	11 17 47.9	+0.7
CO06	comp=Z,1um,21.0s	88.14	125	IAMS_20	IAMS_20	11 46 50.4	
113A	comp=Z,1um,21.0s	88.15	50	IAMS_20	IAMS_20	11 52 36.5	
NB0A	comp=Z,13um,18.0s	88.17	37	IAMS_20	IAMS_20	11 51 53.6	
QSM	comp=Z,10um,20.0s	88.18	46	IAMB	IAMB	11 17 59.8	
QSM	comp=Z,97nm,1.3s				IAMS_20	11 55 53.1	
BLYC	comp=Z,14um,18.0s	88.27	49	IAMS_20	IAMS_20	11 47 52.5	
WAKR	comp=Z,13um,22.0s	88.29	43	IAMB	IAMB	11 18 01.2	
WAKR	comp=Z,42nm,1.1s				IAMS_20	11 48 59.9	
DL2	comp=Z,13um,21.0s	88.33	318	P	P	11 17 48.5	+0.2
DL2	comp=Z,24nm,1.6s				pmax	pmax	
DL2	comp=Z,1um,10.3s				LR	LR	
DL2	comp=Z,9um,21.8s				LR	LR	
DL2	comp=Z,5um,23.9s				LR	LR	
DSP	comp=Z,15um,24.3s	88.41	44	IAMB	IAMB	11 18 01.7	
GWY	comp=Z,108nm,2.0s	88.44	46	IAMS_20	IAMS_20	11 56 39.1	
L02F	comp=Z,13um,18.0s	88.45	38	IAMB	IAMB	11 18 13.4	
L02F	comp=Z,41nm,1.3s				IAMS_20	11 48 22.1	
MPK	comp=Z,10um,22.0s	88.47	42	IAMS_20	IAMS_20	11 49 05.6	
GRAC	comp=Z,15um,21.0s	88.54	45	IAMB	IAMB	11 18 01.7	
GRAC	comp=Z,78nm,1.4s				IAMS_20	11 48 37.5	
KEBM	comp=Z,13um,21.0s	88.58	37	IAMS_20	IAMS_20	11 48 46.4	
PNTR	comp=Z,1um,22.0s	88.58	42	IAMS_20	IAMS_20	11 48 57.8	
PAYG	comp=Z,14um,21.0s	88.64	90	IAMS_20	IAMS_20	11 52 28.7	
YBH	comp=Z,9um,19.0s	88.64	39	IAMB	IAMB	11 18 05.4	
YBH	comp=Z,9um,19.0s	88.64	39	LR	LR	11 49 03.8	
BEKR	comp=Z,554nm,21.8s	88.67	41	IAMS_20	IAMS_20	11 49 32.9	
LHV	comp=Z,13um,21.0s	88.67	43	IAMB	IAMB	11 18 06.2	
LHV	comp=Z,28nm,0.9s				IAMS_20	11 49 01.0	
K02D	comp=Z,14um,22.0s	88.81	37	IAMS_20	IAMS_20	11 48 31.4	
CO05	comp=Z,11um,22.0s	88.85	124	IAMS_20	IAMS_20	11 47 10.2	
WCT	comp=Z,13um,22.0s	88.86	45	IAMB	IAMB	11 18 04.0	
WCT	comp=Z,64nm,1.6s				IAMS_20	11 48 57.1	
NVAR	comp=Z,14um,20.0s	88.91	43	P	P	11 17 51.4	0.0
NVAR	comp=Z,4.5nm,0.8s	88.91	43	P	P	11 17 51.8	+0.4
NVAR	comp=Z,11um,21.9s				LR	11 49 23.0	
RYN	comp=Z,11um,21.9s	88.91	43	IAMS_20	IAMS_20	11 49 42.3	
J01E	comp=Z,11um,21.0s	89.00	37	IAMS_20	IAMS_20	11 48 59.4	
NV11	comp=Z,12um,22.0s	89.00	43	IAMB	IAMB	11 18 04.0	
GO04	comp=Z,46nm,1.2s	89.02	125	IAMB	IAMB	11 17 57.4	
PAHR	comp=Z,39nm,1.0s	89.12	42	IAMB	IAMB	11 18 03.8	
PAHR	comp=Z,42nm,1.3s				IAMS_20	11 49 56.9	
TPNV	comp=Z,13um,20.0s	89.19	45	IAMB	IAMB	11 18 04.9	
TPNV	comp=Z,57nm,1.4s				IAMS_20	11 48 58.4	
SII	comp=Z,13um,22.0s	89.19	13	IAMS_20	IAMS_20	11 50 14.6	
L04D	comp=Z,1um,21.0s	89.20	38	IAMB	IAMB	11 18 16.5	
SNY	comp=Z,74nm,1.3s	89.21	321	P	P	11 17 53.3	+0.9
SNY	comp=Z,52nm,1.5s				pmax	pmax	
SNY	comp=Z,680nm,7.1s				LR	LR	
SNY	comp=Z,4um,27.3s				LR	LR	
SNY	comp=Z,6um,23.5s				LR	LR	

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V12A	comp=Z,12um,25.0s	89.29	47	IAMB	IAMB	11 18 05.5	
Nelson	comp=Z,40nm,1.4s	89.30	313	P	P	11 17 52.3	-0.7
TIA	comp=Z,25nm,1.9s			SS	SS	11 34 39.0	+1.4
TIA	comp=Z,25nm,1.9s				pmax	pmax	
TIA	comp=Z,1um,6.9s				LR	LR	
TIA	comp=Z,8um,21.1s				LR	LR	
TIA	comp=Z,8um,23.0s				LR	LR	
Y14A	comp=Z,19um,24.5s	89.37	49	IAMB	IAMB	11 18 05.9	
W13A	comp=Z,88nm,1.3s	89.52	48	IAMB	IAMB	11 18 06.8	
W13A	comp=Z,49nm,1.2s				IAMS_20	11 53 55.4	
SHPR	comp=Z,12um,18.0s	89.59	46	IAMB	IAMB	11 18 07.9	
CN2	comp=Z,50nm,1.6s	89.59	323	P	S	11 17 53.0	-1.2
CN2	comp=Z,30nm,1.6s			SS	SS	11 28 41.0	-3.6
CN2	comp=Z,900nm,6.0s				pmax	pmax	
CN2	comp=Z,6um,21.0s				LR	LR	
CN2	comp=Z,8um,21.0s				LR	LR	
CN2	comp=Z,13um,24.0s				LR	LR	
I03D	comp=Z,12um,22.0s	89.68	37	IAMS_20	IAMS_20	11 49 20.3	
I02E	comp=Z,12um,22.0s	89.71	36	IAMS_20	IAMS_20	11 49 44.1	
ZON	comp=Z,16um,22.0s	89.71	127	IAMB	IAMB	11 18 28.5	
ZON	comp=Z,69nm,1.3s	89.75	124	P	P	11 17 54.1	-1.7
LCO	comp=Z,64nm,1.3s	89.75	124	IAMS_20	IAMS_20	11 48 11.1	
LCO	comp=Z,3um,22.0s	89.75	124	P	P	11 17 54.1	-1.7
LCO	comp=Z,64nm,1.3s	89.79	12	IAMS_20	IAMS_20	11 50 38.1	
PLK4	comp=Z,13um,21.0s	89.84	44	IAMS_20	IAMS_20	11 49 37.9	
Q09A	comp=Z,11um,22.0s	89.88	52	P	P	11 17 56.0	+0.1
TUC	comp=Z,10um,18.0s	89.88	52	IAMS_20	IAMS_20	11 56 48.2	
TUC	comp=Z,134nm,1.4s	89.88	52	P	P	11 17 56.0	+0.1
TUC	comp=Z,10um,18.0s				MLR	MLR	
GRNR	comp=Z,7.0nm,1.0s	89.88	334	i/P	P	11 17 55.1	-0.3
GRNR	comp=Z,10um,22.0s	89.90	67	IAMS_20	IAMS_20	11 47 54.0	
MOIG	comp=Z,10um,22.0s	89.94	123	IAMS_20	IAMS_20	11 47 39.2	
AC04	comp=Z,14um,22.0s	89.94	45	IAMB	IAMB	11 18 08.1	
S11A	comp=Z,31nm,1.0s	89.98	127	LR	LR	11 53 16.2	
CFA	comp=Z,12um,21.0s	89.98	326	P	P	11 17 54.5	-1.5
BNX	comp=Z,830nm,6.9s				LR	LR	
BNX	comp=Z,3um,17.9s				LR	LR	
BNX	comp=Z,8um,19.1s				LR	LR	
BNX	comp=Z,8um,18.8s				LR	LR	
OHAK	comp=Z,1um,21.0s	90.00	14	IAMS_20	IAMS_20	11 50 39.8	
OHAK	comp=Z,1um,21.0s	90.00	14	P	P	11 17 57.6	+1.9
OHAK	comp=Z,1um,21.0s	90.05	295	P	P	11 17 58.3	+1.3
TRQA	comp=Z,106nm,1.6s	90.08	135	IAMB	IAMB	11 18 03.0	
TRQA	comp=Z,13um,18.0s	90.08	135	P	P	11 17 57.7	+0.8
TRQA	comp=Z,106nm,1.6s	90.21	37	IAMS_20	IAMS_20	11 49 37.5	
BUCK	comp=Z,106nm,1.6s	90.21	37	IAMS_20	IAMS_20	11 49 37.5	
BUCK	comp=Z,9um,22.0s	90.29	337	eP	S	11 17 56.2	-0.9
NKL	comp=N,16nm,0.9s				pmax	pmax	
NKL	comp=Z,164nm,1.2s				smax	smax	
NKL	comp=E,378nm,3.6s				smax	smax	
NKL	comp=N,825nm,3.7s				MLR	MLR	
NKL	comp=N,10um,19.0s				MLR	MLR	
NKL	comp=E,26um,18.0s				MLR	MLR	
NKL	comp=Z,36um,18.0s				MLR	MLR	
K05A	comp=Z,96nm,1.3s	90.31	39	IAMB	IAMB	11 18 10.6	
K05A	comp=Z,10um,20.0s				IAMS_20	11 51 22.1	
HPIG	comp=Z,50nm,1.5s	90.41	59	IAMB	IAMB	11 18 11.3	
HPIG	comp=Z,12um,20.0s	90.50	38	IAMB	IAMB	11 18 10.7	
J05D	comp=Z,85nm,1.3s	90.52	12	IAMS_20	IAMS_20	11 51 00.7	
ACHA	comp=Z,12um,22.0s	90.53	36	IAMS_20	IAMS_20	11 50 26.9	
HEBO	comp=Z,11um,21.0s	90.57	9	IAMS_20	IAMS_20	11 51 20.8	
O14K	comp=Z,13um,21.0s	90.57	37	IAMS_20	IAMS_20	11 50 10.9	
H04D	comp=Z,14um,22.0s	90.58	330	P	P	11 17 58.2	-0.5
KLR	comp=Z,6.6nm,0.8s	90.58	330	eP	P	11 17 58.2	-0.5
KLR	comp=Z,6.6nm,0.8s						













27d 12h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Te Maari, Nonsavu, Charters Tower, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Nilsia, Romuvaara, Sumiainen, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Virojoki, Merijarvi, Kankaanpaa, etc.

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like Sarmi, Genyem, Jayapura, etc.

1766

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, h, m, s, ISC. Includes stations like WRA, QIS, Toliti, etc.



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M11K	Mekoryuk	76.07	25	P	P	13 00 22.3 +1.3	O20K	Slope Mountain	82.02	28	P	P	13 00 54.1 +0.3	KLU	Klutina	85.58	28	P	P	13 01 11.5 -0.4
SDPT	Sand Point	76.31	31	P	P	13 00 23.2 +0.7	J19K	Poorman	82.13	24	P	P	13 00 54.9 +0.8	COLA	College	85.60	24	P	P	13 01 11.6 -0.3
CHM	Chimint	76.32	315	eP	P	13 00 23.5 +0.5	C18K	Utukuk River	82.14	19	P	P	13 00 54.8 +0.6	M24K	Tolsona, Glenn	85.61	27	P	P	13 01 11.5 -0.6
BRLS	Borolday	76.36	315	eP	P	13 00 23.9 +0.7	L20K	Farewell, AK	82.29	26	P	P	13 00 55.7 +0.6	D23K	Nanushuk River	85.76	20	P	P	13 01 12.3 -0.3
CHNA	Chernabura Isl	76.54	32	eP	P	13 00 25.3 +1.5	B18K	Kokolik River	82.30	18	P	P	13 00 55.5 +0.2	E23K	Chandalar	85.85	21	P	P	13 01 12.9 -0.3
BRZS	Berezni	76.75	323	eP	P	13 00 25.5 +0.4	M20K	Styx River	82.41	26	P	P	13 00 56.2 +0.7	HDA	Harding Lake	85.85	25	P	P	13 01 13.2 0.0
S14K	Fog Glacier	77.18	30	P	P	13 00 29.0 +1.5	H19K	Roundabout Mou	82.42	22	P	P	13 00 56.7 +1.1	H24K	Noor Dome	85.86	23	IAMB	IAMB	13 01 21.1
M13K	Dall Lake	77.30	26	P	P	13 00 29.7 +1.8	H19K	Roundabout Mou	82.42	22	P	P	13 00 55.4 -0.2	H24K	Noor Dome	85.86	23	P	P	13 01 13.2 0.0
K13K	Kusivak Mount	77.52	24	P	P	13 00 30.7 +1.5	G19K	Purcell Mountain	82.43	22	IAMB	IAMB	13 01 04.6	KAIM	Kayak Island	85.94	29	P	P	13 01 13.1 -0.6
O14K	Tigyuakuiet M	77.67	27	P	P	13 00 31.9 +1.9	G19K	Purcell Mountain	82.43	22	P	P	13 00 55.8 +0.1	ILAR	Eielson Array	85.97	24	P	P	13 01 11.7 -2.1
N14K	Kuskokwak Cree	77.80	26	P	P	13 00 31.4 +0.6	F19K	Shalerucik Mo	82.47	21	P	P	13 00 56.1 +0.2	ILAR	Eielson Array	85.97	24	P	P	13 01 11.5 -2.3
L14K	Kuka Creek	78.04	25	P	P	13 00 33.6 +1.5	K20K	Telida	82.53	25	P	P	13 00 56.8 +0.5	TOLK	Toolik Lake Re	86.04	20	IAMB	IAMB	13 01 21.5
M14K	Bethel	78.06	26	P	P	13 00 33.7 +0.8	J20K	Nowitza River	82.80	24	IAMB	IAMB	13 01 05.1	TOLK	Toolik Lake Re	86.04	20	P	P	13 01 13.6 -0.5
TNA	Tin City	78.27	20	P	P	13 00 33.7 +0.4	J20K	Nowitza River	82.80	24	P	P	13 00 57.8 +0.2	C23K	Iklikik River	86.07	19	P	P	13 01 14.3 +0.2
O15K	Ungalikthiuk R	78.28	20	P	P	13 00 34.0 +0.4	BRSE	Gray Lake S	82.81	29	P	P	13 00 57.8 0.0	BMRM	Bremner River	86.08	28	P	P	13 01 14.3 -0.1
J14K	Nanvaran Lak	78.38	24	P	P	13 00 34.8 +0.8	C19K	Lookout Ridge	82.87	19	P	P	13 00 58.2 +0.2	HARX	Paxson	86.14	26	P	P	13 01 14.4 -0.4
M15K	Kasigliuk River	78.59	26	P	P	13 00 36.4 +1.2	I20K	Naagdeneel	82.90	23	P	P	13 00 58.9 +0.8	PARP	HAARP	86.14	27	P	P	13 01 14.6 0.0
N15K	Kwethluk River	78.62	27	P	P	13 00 35.5 +0.2	A19K	Wainwright	82.93	17	P	P	13 00 58.1 -0.1	K24K	Donnelly Dome	86.20	26	P	P	13 01 14.9 -0.1
ANM	Nome	78.62	21	P	P	13 00 36.1 +0.8	E19K	Redstone River	82.93	21	P	P	13 00 57.7 -0.6	N25K	Chitina, Valde	86.22	28	P	P	13 01 15.1 0.0
L15K	Ungalik Mounta	78.70	25	P	P	13 00 36.5 +0.7	H20K	Anotleneega Mo	83.00	23	P	P	13 00 59.0 +0.2	G24K	Hadweenzic Riv	86.25	23	IAMB	IAMB	13 01 23.3
F14K	Arctic Creek	78.78	20	P	P	13 00 36.8 +0.7	D19K	Kuna River	83.08	19	IAMB	IAMB	13 01 06.7	G24K	Hadweenzic Riv	86.25	23	P	P	13 01 15.5 +0.3
K15K	Wolf Creek Mou	78.98	24	P	P	13 00 38.3 +1.0	D19K	Kuna River	83.08	19	P	P	13 00 59.3 +0.2	E24K	Your Creek	86.26	21	IAMB	IAMB	13 01 22.4
CHIR	Chirikof Islan	79.02	32	P	P	13 00 38.3 +0.7	SKT	Kuna River	83.08	19	P	P	13 00 59.7 +0.1	E24K	Your Creek	86.26	21	P	P	13 01 15.0 -0.2
P16K	Nushagak River	79.10	28	P	P	13 00 39.1 +1.1	D19K	Kuna River	83.08	19	P	P	13 00 59.7 +0.1	F24K	Squaw Lake	86.32	22	P	P	13 01 15.4 0.0
BVAR	Borovoye Array	79.14	325	P	P	13 00 37.6 -0.7	PPLA	Purville	83.17	26	P	P	13 01 00.3 +0.5	D24K	Happy Valley	86.46	20	P	P	13 01 16.2 +0.1
BRVK	Borovoye	79.21	325	P	IAMB	13 00 39.9 +1.1	F20K	Avaraart Lake	83.30	21	P	P	13 01 01.3 +1.1	J25K	Salcha River	86.57	25	IAMB	IAMB	13 01 23.6
BRVK	comp=Z,54nm,1.8s					13 00 45.8	SUA	Susuna One	83.34	27	P	P	13 01 01.2 +0.5	J25K	Salcha River	86.57	25	IAMB	IAMB	13 01 23.6
O16K	Kokwok River B	79.28	28	P	P	13 00 39.4 +0.4	CAST	Castle Rocks	83.39	25	IAMB	IAMB	13 01 01.2 +0.4	J25K	Salcha River	86.57	25	P	P	13 01 16.6 -0.2
R17L	Mt. Peulik Vol	79.33	30	P	P	13 00 39.8 +0.5	C23K	Castle Rocks	83.39	25	P	P	13 01 01.2 +0.4	RIDG	Independent Ri	86.59	26	IAMB	IAMB	13 01 27.3
G15K	Niukluk	79.34	21	P	P	13 00 40.2 +1.0	CHUM	Lake Minchum	83.45	25	P	P	13 01 01.5 +0.5	RIDG	Independent Ri	86.59	26	P	P	13 01 16.2 -0.7
N16K	Nishlik Lake	79.34	27	P	P	13 00 39.8 +0.5	O22K	Cooper Landing	83.52	28	P	P	13 01 01.8 +0.4	RIDG	Independent Ri	86.59	26	P	P	13 01 16.6 -0.4
F15K	North Star Dit	79.49	21	P	P	13 00 40.8 +0.8	SEW	Seward	83.54	29	P	P	13 01 01.8 +0.3	PRP	Porcupine Dome	86.72	24	P	P	13 01 17.6 0.0
M16K	Timber Creek	79.50	26	P	P	13 00 40.8 +0.6	E20K	Nigu River	83.62	20	P	P	13 01 02.1 +0.2	CROE	Cirque	86.76	29	P	P	13 01 17.6 -0.2
L16K	Owhat River	79.57	25	P	P	13 00 41.3 +0.8	IMAR	Indian Mountai	83.62	22	P	P	13 01 02.7 +0.8	H25L	Birch Creek	86.78	23	P	P	13 01 17.4 -0.3
Q16K	King Salmon	79.59	29	P	P	13 00 40.5 -0.1	D20K	Etiyuk River	83.67	19	P	P	13 01 02.0 -0.1	G25K	Bearm Lake	86.80	23	P	P	13 01 17.1 -0.7
NRIK	Norvik	79.64	344	P	P	13 00 39.0 -1.8	RC01	Rabbit Creek A	83.69	28	IAMB	IAMB	13 01 08.3	DOT	Dot Lake	86.91	26	P	P	13 01 18.7 +0.3
Q17K	Contact Creek	79.80	29	P	P	13 00 42.3 +0.3	RC01	Rabbit Creek A	83.69	28	P	P	13 01 02.4 +0.1	MENT	Mentasta	86.91	27	P	P	13 01 21.9 +3.4
O17K	Koliganek Bris	79.82	28	P	P	13 00 42.8 +1.0	M22K	Willow	83.72	27	P	P	13 01 01.9 -0.5	MENT	Mentasta	86.91	27	P	P	13 01 25.3
J16K	Anvik River	79.82	24	P	P	13 00 43.4 +1.5	CUT	China	83.85	26	P	P	13 01 03.1 0.0	MCARA	McCarthy VSAT	86.91	28	P	P	13 01 18.3 -0.2
H16K	Elim	79.83	22	P	P	13 00 42.7 +0.9	H21K	Melozitna River	83.87	23	IAMB	IAMB	13 01 10.0	SCRK	Sand Creek	87.01	26	P	P	13 01 19.2 +0.1
P17K	Kvichak River	79.89	28	P	P	13 00 43.2 +0.9	H21K	Melozitna River	83.87	23	P	P	13 01 03.5 +0.3	L26K	Log Cabin Wild	87.09	27	IAMB	IAMB	13 01 26.3
SI	Sitkinak Islan	80.03	31	P	P	13 00 43.7 +0.5	G21K	Allakaket	83.91	22	P	P	13 01 02.1 -1.3	L26K	Log Cabin Wild	87.09	27	P	P	13 01 19.9 +0.6
H17K	Unalakleet	80.06	23	P	P	13 00 43.8 +0.7	KTH	Kantishna Hill	83.93	25	IAMB	IAMB	13 01 09.0	L26K	Log Cabin Wild	87.09	27	P	P	13 01 20.1 +0.5
N17K	Nushagak Hills	80.08	27	P	P	13 00 43.6 +0.3	I21K	Tanana	84.03	23	P	P	13 01 04.2 +0.2	M26K	Nabesna, AK	87.13	27	P	P	13 01 20.1 +0.5
G16K	Koyuk River	80.15	21	P	P	13 00 44.4 +0.8	B20K	Meade River	84.04	18	P	P	13 01 03.9 +0.1	F25K	Christian River	87.17	22	IAMB	IAMB	13 01 27.4
L17K	Donlin	80.26	25	P	P	13 00 45.0 +0.7	BPAP	Bear Paw Mtn.	84.08	25	P	P	13 01 04.5 +0.2	F25K	Christian River	87.17	22	P	P	13 01 20.6 +0.9
M17K	Holitna River	80.32	26	P	P	13 00 45.5 +0.9	PMR	Palmer	84.12	27	P	P	13 01 04.3 -0.2	MESA	MESA	87.20	29	P	P	13 01 20.1 0.0
M17K	Holitna River	80.32	26	P	IAMB	13 00 52.5	TRF	Thorofare Moun	84.17	25	P	P	13 01 05.0 +0.1	GSPA	South Pole Qui	87.23	180	P	P	13 01 19.2 -0.8
M17K	Holitna River	80.32	26	P	P	13 00 45.7 +1.0	F21K	Alatna River	84.17	21	P	P	13 01 04.8 +0.1	GSPA	South Pole Qui	87.23	180	P	P	13 01 20.0 -0.1
Q18K	Katmai Hardscr	80.37	29	P	P	13 00 45.7 +0.6	PWL	Port Wells	84.28	28	P	P	13 01 05.3 -0.1	J26L	Joseph Creek	87.30	25	P	P	13 01 20.6 +0.2
J17K	VABM Dome	80.48	24	IAMB	IAMB	13 00 53.3	KNK	Knik Glacier	84.38	28	P	P	13 01 05.2 -0.7	E25K	Arctic Village	87.33	21	P	P	13 01 20.8 +0.4
J17K	VABM Dome	80.48	24	P	P	13 00 46.4 +0.9	C21K	Knifeflake Rid	84.45	19	P	P	13 01 06.3 +0.2	D25K	Kavik River	87.34	20	P	P	13 01 20.7 +0.3
K17K	Iditarod	80.51	25	IAMB	IAMB	13 00 53.3	E21K	Killik River	84.45	20	IAMB	IAMB	13 01 13.4	GRNC	Granite Creek	87.40	29	IAMB	IAMB	13 01 28.9
K17K	Iditarod	80.51	25	P	P	13 00 46.6 +1.0	E21K	Killik River	84.45	20	P	P	13 01 05.8 -0.3	BMAP	Burn Mountain	87.53	22	P	P	13 01 22.5 +1.1
P18K	Big Mountain,	80.54	28	P	P	13 00 46.9 +1.0	MLY	Manley	84.48	24	P	P	13 01 06.0 -0.3	M27K	Edge Creek, AK	87.63	27	IAMB	IAMB	13 01 29.2
C16K	Lisburne Hills	80.63	18	P	P	13 00 47.6 +1.5	P23K	Montague Islan	84.50	29	P	P	13 01 06.3 -0.2	M27K	Edge Creek, AK	87.63	27	P	P	13 01 22.4 +0.3
OHAK	Old Harbor	80.73	31	P	P	13 00 48.0 +1.1	H22K	Ishik Chitina Cre	84.50	23	P	P	13 01 06.4 -0.1	CTG	Chitina Glacier	87.64	29	P	P	13 01 22.7 +0.5
O18K	Koktuh Hills	80.73	28	P	P	13 00 47.8 +1.0	AB31	Akbulak array	84.52	320	P	IAMB	13 01 07.3 +0.5	I26K	Coal Creek Min	87.64	24	IAMB	IAMB</	



Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like Tortugero, SARA Sarapiquí, CHIT3 Chitre, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like San Juan, Cruzeiro do Sul, La Paz, etc.

Table with columns: Station Name, Azimuth, Elevation, Frequency, and other parameters. Includes stations like Korea Array, Chiang Mai Arr, Songino Array, etc.

Table with columns for station name, frequency, power, and signal strength. Includes stations like AFI Afiamatu, MARNC Mare, Loyalty, CAN Canberra, etc.

O14K	Tiguyukauiv M	80.93	9	P	P	14 25 22.8	-0.2
O15K	Ungalithiuk R	81.07	9	P	P	14 25 23.6	-0.2
KDAK	Kodiak Island	81.12	14	P	P	14 25 24.3	+0.3
Q16K	King Salmon	81.13	11	P	P	14 25 24.6	+0.6
L04D	Klamath Falls	81.17	39	IAMB	IAMB	14 25 28.2	
P16K	Nushagak River	81.23	10	P	P	14 25 24.7	+0.1
MAW	Mawson	81.25	200	P	P	14 25 25.5	+0.8
NVAR	Mina Array Bea	81.37	43	P	P	14 25 25.5	-0.6
NVAR	Mina Array Bea	81.37	43	P	P	14 25 27.6	+1.4
Q18K	Katmai Hardscr	81.41	12	P	P	14 25 25.7	0.0
M11K	Mekoryuk	81.44	6	P	P	14 25 26.3	+0.7
N14K	Kuskokwak Cree	81.52	8	P	P	14 25 26.9	+0.9
P17K	Kvichak River	81.65	11	P	P	14 25 27.1	+0.3
O16K	Kokwok River B	81.74	10	IAMB	IAMB	14 25 27.8	
O16K	Kokwok River B	81.74	10	P	P	14 25 26.9	-0.3
M13K	Dall Lake	81.78	7	P	P	14 25 27.8	+0.4
TPH	Tonopah	81.77	44	IAMB	IAMB	14 25 31.2	
Q20K	Shuyak Island	81.91	13	P	P	14 25 28.6	+0.5
J04A	Umpqua Nationa	81.92	38	IAMB	IAMB	14 25 31.7	
Q19K	Cape Douglas,	81.94	13	IAMB	IAMB	14 25 34.2	
Q19K	Cape Douglas,	81.94	13	P	P	14 25 28.3	0.0
N15K	Kwethluk River	81.98	9	IAMB	IAMB	14 25 31.3	
N15K	Kwethluk River	81.98	9	P	P	14 25 28.9	+0.5
P18K	Big Mountain,	82.06	12	IAMB	IAMB	14 25 29.8	
P18K	Big Mountain,	82.06	12	P	P	14 25 28.9	0.0
O17K	Koliganek Bris	82.08	11	P	P	14 25 28.8	-0.1
M14K	Bethele	82.28	8	P	P	14 25 30.8	+0.9
K05A	Summer Lake	82.31	39	IAMB	IAMB	14 25 33.8	
CN2	Changchun	82.36	323	P	P	14 25 31.5	+0.8
M15K	Kasigliuk River	82.40	9	P	P	14 25 31.4	+0.9
WHN	Wuhan	82.40	307	P	P	14 25 32.3	+1.0
J05D	Fort Rock, OR	82.45	38	IAMB	IAMB	14 25 34.4	
N16K	Nishlik Lake	82.47	10	P	P	14 25 31.9	+1.0
BNX	BinXian	82.50	325	P	P	14 25 31.5	+0.1
O18K	Koktuh Hills	82.50	11	P	P	14 25 31.2	+0.1
KLR	Kul'du	82.62	330	P	P	14 25 32.8	+0.9
P19K	Oil Pt	82.69	13	IAMB	IAMB	14 25 33.3	
P19K	Oil Pt	82.69	13	P	P	14 25 32.2	+0.1
L14K	Kuka Creek	82.76	7	IAMB	IAMB	14 25 34.4	
L14K	Kuka Creek	82.76	7	P	P	14 25 33.3	+1.0
N17K	Nushagak Hills	82.78	10	P	P	14 25 32.9	+0.5
PINE	Pine Mountain	82.93	38	IAMB	IAMB	14 25 37.0	
IPM	Iloh	82.93	277	P	P	14 25 35.1	+0.7
MNSI	Mandailing Nat	82.95	274	P	P	14 25 36.5	+2.0
M16K	Timber Creek	82.96	9	P	P	14 25 35.0	+1.6
O19K	Port Alsworth	82.98	12	P	P	14 25 33.5	+0.1
CNPM	China Post	83.00	13	IAMB	IAMB	14 25 35.1	
HOM	Homer	83.03	13	P	P	14 25 34.4	+0.6
K13K	Kusilvak Mount	83.11	6	P	P	14 25 34.8	+0.7
K13K	Kusilvak Mount	83.11	6	IAMB	IAMB	14 25 36.3	
K13K	Kusilvak Mount	83.11	6	P	P	14 25 35.2	+1.1
N18K	Kilae Creek	83.14	11	P	P	14 25 34.2	-0.2
N18K	Kilae Creek	83.14	11	P	P	14 25 34.4	+0.1
O20K	Slope Mountain	83.21	13	P	P	14 25 34.9	+0.1
L15K	Ungalak Mouna	83.24	8	P	P	14 25 35.3	+0.6
BRLK	Bradley Lake	83.29	14	IAMB	IAMB	14 25 36.4	
BRSE	Bradley Lake S	83.30	14	P	P	14 25 35.6	+0.5
RED	Redoubt Volcan	83.49	12	IAMB	IAMB	14 25 36.7	
N19K	Bonanza Creek	83.52	11	IAMB	IAMB	14 25 37.0	
N19K	Bonanza Creek	83.52	11	P	P	14 25 36.0	-0.3
L16K	Owhat River	83.55	9	IAMB	IAMB	14 25 38.5	
L16K	Owhat River	83.55	9	P	P	14 25 37.4	+1.1
M17K	Holitna River	83.56	10	IAMB	IAMB	14 25 39.0	
M17K	Holitna River	83.56	10	P	P	14 25 37.6	+1.2
KULM	Kulim	83.57	278	P	P	14 25 36.7	-0.8
KULM	Kulim	83.57	278	IAMB	IAMB	14 25 39.6	
KULM	Kulim	83.57	278	P	P	14 25 38.5	+1.0
K15K	Wolf Creek Mou	83.83	8	P	P	14 25 38.9	+1.2
M18K	Stony River	83.92	11	P	P	14 25 38.7	+0.6
SEW	Seward	83.92	14	IAMB	IAMB	14 25 39.1	
SEW	Seward	83.92	14	P	P	14 25 38.1	+0.1
MA2	Magadan	83.96	345	P	P	14 25 37.7	-0.7
MA2	Magadan	83.96	345	IAMB	IAMB	14 25 39.2	
MA2	Magadan	83.96	345	P	P	14 25 37.6	-0.8
J14K	Nanvaranak Lak	84.03	7	P	P	14 25 39.3	+0.8
Q23K	Middleton Isla	84.07	16	P	P	14 25 39.3	+0.4
L17K	Donlin	84.12	9	P	P	14 25 40.3	+1.2
O22K	Cooper Landing	84.19	14	P	P	14 25 39.4	-0.1
RPSI	Rantau Prapat	84.24	275	IAMB	IAMB	14 25 41.7	
PSI	Prapat	84.28	275	P	P	14 25 41.2	0.0
P23K	Montague Isan	84.30	15	IAMB	IAMB	14 25 41.8	
P23K	Montague Isan	84.30	15	P	P	14 25 40.2	+0.2
U15A	North Rim	84.31	48	P	P	14 25 43.4	+2.4
N20K	Mount Spurr	84.32	12	P	P	14 25 39.6	-0.6
SPCR	Spurr Chakacha	84.32	12	P	P	14 25 39.8	-0.4

GAMB	Gambell	84.40	3	P	P	14 25 41.1	+0.7
L18K	Granite Mounta	84.45	10	P	P	14 25 42.0	+1.3
L18K	Granite Mounta	84.45	10	IAMB	IAMB	14 25 42.9	
L18K	Granite Mounta	84.45	10	P	P	14 25 41.6	+0.9
M19K	Big River Lodg	84.55	11	P	P	14 25 41.1	-0.1
M19K	Big River Lodg	84.55	11	IAMB	IAMB	14 25 42.3	
M19K	Big River Lodg	84.55	11	P	P	14 25 41.2	-0.1
STLK	Strandline Lak	84.67	12	IAMB	IAMB	14 25 42.1	
K17K	Iditarod	84.67	9	P	P	14 25 42.5	+0.7
L19K	White Mountain	84.73	11	IAMB	IAMB	14 25 43.9	
L19K	White Mountain	84.73	11	P	P	14 25 42.8	+0.6
RC01	Rabbit Creek A	84.73	13	IAMB	IAMB	14 25 43.4	
RC01	Rabbit Creek A	84.73	13	P	P	14 25 42.3	+0.2
M20K	Styx River	84.77	12	P	P	14 25 42.0	-0.4
PWL	Port Wells	84.84	14	IAMB	IAMB	14 25 43.8	
PWL	Port Wells	84.84	14	P	P	14 25 42.8	+0.1
SUA	Susitna One	84.86	13	IAMB	IAMB	14 25 43.8	
SUA	Susitna One	84.86	13	P	P	14 25 42.7	-0.2
J16K	Anvik River	84.90	8	P	P	14 25 43.7	+0.8
KAIM	White Mountain	85.00	16	P	P	14 25 43.7	+0.2
GSI	Gunungstoli	85.01	273	P	P	14 25 45.7	+1.1
GSI	Gunungstoli	85.01	273	P	P	14 25 45.6	+1.0
CRAG	Craig	85.04	24	P	P	14 25 44.1	+0.4
GLI	Glacier Island	85.15	15	P	P	14 25 44.2	0.0
SKT	Skeetna	85.17	12	P	P	14 25 43.3	-1.0
L20K	Farewell, AK	85.18	11	P	P	14 25 44.3	0.0
FID	Port Fidalgo	85.19	15	IAMB	IAMB	14 25 45.5	
EYAK	Cordova Ski Ar	85.19	15	IAMB	IAMB	14 25 45.8	
EYAK	Cordova Ski Ar	85.19	15	P	P	14 25 45.0	+0.7
EYAK	Cordova Ski Ar	85.19	15	P	P	14 25 44.3	0.0
J17K	VABM Dome	85.21	9	P	P	14 25 45.0	+0.6
M22K	Willow	85.25	13	P	P	14 25 44.6	0.0
KNK	Knik Glacier	85.31	14	P	P	14 25 45.1	+0.1
PMR	Palmer	85.32	14	P	P	14 25 45.5	+0.6
PMR	Palmer	85.32	14	P	P	14 25 45.1	+0.2
HEH	Heihe	85.40	328	P	P	14 25 46.0	+0.4
I17K	Unalascet	85.47	8	P	P	14 25 46.2	+0.6
V35K	Ketchikan	85.52	25	P	P	14 25 47.0	+1.0
U33K	White Pass	85.53	23	P	P	14 25 46.3	+0.2
HNS	HongShan	85.54	313	P	P	14 25 48.0	+1.4
J18K	Innoko River	85.62	10	IAMB	IAMB	14 25 48.1	
J18K	Innoko River	85.62	10	P	P	14 25 46.8	+0.4
ANM	Nome	85.62	6	P	P	14 25 47.0	+0.6
LYN	LuoYang	85.73	309	P	P	14 25 49.0	+1.4
SRIT	Naksonritamara	85.75	281	P	P	14 25 50.1	+2.0
CUT	Chulina	85.81	13	P	P	14 25 47.1	-0.2
M23K	Glacier View	85.81	14	P	P	14 25 47.8	+0.4
S31K	Pelican	85.84	21	P	P	14 25 47.7	+0.2
BMRM	Bremner River	85.84	16	P	P	14 25 48.0	+0.4
PPLA	Purkeypile	85.87	12	P	P	14 25 47.8	0.0
MESA	MESA	85.88	17	P	P	14 25 48.6	+0.6
SCM	Sheep Creek Mo	85.94	14	P	P	14 25 48.3	+0.3
K20K	Telida	85.96	11	IAMB	IAMB	14 25 49.4	
K20K	Telida	85.96	11	P	P	14 25 48.3	+0.3
KLU	Klutina	85.97	15	IAMB	IAMB	14 25 49.6	
KLU	Klutina	85.97	15	P	P	14 25 48.2	+0.1
ENH	Enshi	85.99	304	P	P	14 25 49.6	+0.6
H16K	Elim	86.01	7	P	P	14 25 48.9	+0.7
S32K	Killisnoo	86.02	22	P	P	14 25 48.4	0.0
WRAK	Wrangell Isan	86.04	24	IAMB	IAMB	14 25 51.0	
WRAK	Wrangell Isan	86.04	24	P	P	14 25 49.7	+1.2
CRQE	Cirque	86.05	16	P	P	14 25 49.1	+0.4
YAH	Yahite	86.09	17	IAMB	IAMB	14 25 51.0	
G15K	Niukluk	86.17	6	P	P	14 25 49.5	+0.5
PNL	Peninsula	86.19	19	P	P	14 25 49.7	+0.5
PINM	Pinnacle	86.29	18	P	P	14 25 50.4	+0.7
J19K	Poorman	86.29	10	IAMB	IAMB	14 25 51.5	
J19K	Poorman	86.29	10	P	P	14 25 50.1	+0.5
T18K	Table Mountain	86.32	17	IAMB	IAMB	14 25 51.8	
VRDI	Verde Repeater	86.36	16	IAMB	IAMB	14 25 51.8	
CAST	Castle Rocks	86.37	11	IAMB	IAMB	14 25 50.0	
CAST	Castle Rocks	86.37	11	P	P	14 25 49.0	-1.0
N25K	Chitina, Valde	86.39	15	IAMB	IAMB	14 25 51.8	
N25K	Chitina, Valde	86.39	15	P	P	14 25 50.6	+0.4
GRNC	Granite Creek	86.39	17	IAMB	IAMB	14 25 52.2	
TNA	Tin City	86.40	4	P	P	14 25 50.3	+0.3
SYO	Syowa Base	86.43	193	P	P	14 25 48.4	-1.9
F14K	Arctic Creek	86.44	5	P	P	14 25 50.7	+0.5
M24K	Tolsona, Glenn	86.44	14	P	P	14 25 51.2	+0.8
GLB	Gilaha Butte	86.45	16	IAMB	IAMB	14 25 52.0	
WAT6	Susitna Watana	86.50	14	P	P	14 25 50.8	0.0
WAT1	Susitna Watana	86.55	13	P	P	14 25 50.9	0.0
SEY	Seymchan	86.57	347	P	P	14 25 51.1	+0.3
B08A	Colville Reser	86.57	35	IAMB	IAMB	14 25 53.1	
H17K	Granite Mounta	86.58	8	P	P	14 25 51.1	+0.2

MCARA	McCarthy VSAT	86.60	16	IAMB	IAMB	14 25 52.9	
MCARA	McCarthy VSAT	86.60	16	P	P	14 25 51.5	+0.4
R32K	Eaglecrest	86.66	21	P	P	14 25 51.8	+0.4
P29M	Windy Craggy	86.67	19	IAMB	IAMB	14 25 53.9	
P29M	Windy Craggy	86.67	19	P	P		

27d 14h

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like G19K Purcell Mounta, RIDG Independent Ri, RIDG Independent Ri, F18K Selawik, etc.

2019 JUN

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like F22K John River, CHTO Chiang Mai, CHTO Chiang Mai, H25L Birch Creek, etc.

1722

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like D27M Malcolm River, F31M Tsightehich, D28M Stokes Point, INK Inuvik, etc.







Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like JIH Iheya, JKE Kume jima 2, JOKE Okinoerabujima, etc.

IDC 27 15:39:05.8, 1.7, 2.66S, 138.37E, h0km, mb3.0/2, mbmp3.1/4, ML3.2/2, Error ellipse: s-maj=32.5km s-min=26.6km az=157.0

DJA 27 15:39:09.0, 0.4, 3.5S, 138.41E, h10km, M3.3/6, MLv3.3/6, ISC 27 15:39:09.3, 0.9, 2.58S, 138.45E, 0.04, h32km, n9, c190/13, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SMP1 Sarmi, GENI Genyem, JAY Jayapura, etc.

NOU 27 15:39:26.8, 21.86S, 169.10E, h0km, MLv4.9/12, Southeast of Loyalty Islands

IDC 27 15:39:27.1, 0.7, 21.87S, 169.08E, h0km, mb4.3/14, mbmp4.3/16, ML4.8/2, MS3.7/3, Error ellipse: s-maj=19.7km s-min=17.7km az=123.0

NEIC 27 15:39:29.3, 2.6, 21.88S, 169.87E, 0.07, h10km, 1km, mb4.8/50, Error ellipse: s-maj=15.7km s-min=10.0km az=161.0

ISC 27 15:39:32.0, 0.4, 21.83S, 169.93E, 0.05, h31km, n155, c151/161, mb4.8/40, 7C-13D, Loyalty Islands

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like MARNC Mare, Loyalty, PINNC Pines Island, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like RAO Raoul Island, HNR Honiara, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like EIDS Eidsvold, ARMA Armidale, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like RTZ Rustanuhana, BKZ Black Stump Fm, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like LTZ Lake Taylor, CTAO Charters Tower, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WBO Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GSPA South Pole Gu, KSRS Korea Arr, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CN2 Changchun, NIKH Ninkian High, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CMAR Chiang Mai Arr, BELA Belgrano 2, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SYO Syowa Base, TROLL Troll, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like M16K Timber Creek, SNAAS Sanae, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like VNA3 Neumayer Olym, VNA2 Neumayer-Watz, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KHMHM Horse Mountain, O02D Mt. Diabolo Mer, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ULN Ulanbatar, CMB Columbia Col, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SONM Songino Array, DSP Deep Springs, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GWM Gold Mountain, JSD Jersid, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PINE Pine Mountain, TPNV Topopah Spring, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AKASG Malin Array Ba, PSZ Piskizesteto, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TREB Trebinje, A050A Klekavoca, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like STON Ston, MYKA Terra Mystica, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PRED Cave del Predi, CEY Cerkes, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ABTA Abfaltersbach, WATA Waidersilb, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SKDS Skadanscina, WTTA Wattenberg, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like STAL STALIGAL, MOTA Moosalm, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SQTA Sankt Quirin, RETA Retta, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like FETA Feichten, DAVA Danuelt, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like FUORN Ofenpass-Fuorn, FUORN Norcia, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ZCCA Zocca, SSB Saint Sauveur, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SMP1 Sarmi, GENI Genyem, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like JAY Jayapura, SMP1 Sarmi, etc.

IDC 27 15:44:22.0, 0.6, 2.66S, 138.40E, h0km, mb4.2/13, mbmp4.3/17, ML3.8/3, MS3.8/9, Error ellipse: s-maj=20.3km s-min=13.0km az=78.0

NEIC 27 15:44:23.5, 1.2, 2.60S, 138.44E, 0.03, h10km, 1km, mb4.7/79, Error ellipse: s-maj=12.4km s-min=5.2km az=177.0

DJA 27 15:44:25.0, 0.3, 2.53S, 138.44E, h10km, M4.4/8, mb4.4/1, MLv4.4/8

ISC 27 15:44:22.4, 1.4, 2.67S, 138.43E, 0.03, h7km, 9km, n147, c153/138, mb4.7/66, MS3.9/8, 2D, Irian Jaya

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SMP1 Sarmi, SMP1 SMP1, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KNRA Kunurura, BATI Baumata, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GUMO Guam, WRB Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KPAI Kappang, CATO Charters Tower, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AS31 Alice Springs, ASAR Alice Springs, etc.













Table with columns: Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like NBEZ, MTVZ, DREZ, etc.

KRSC 27 19:10:03.5-1.3, 56.18N-164.31E, h50km, 19km, M3.9
IDC 27 19:10:03.0-0.9, 56.26N-164.11E, h0km, mb3.4/7,
mbtmp3.3/8, ML2.3/1, Error ellipse: s-maj=45.4km
s-min=18.7km az=150.0

ISC 27 19:10:02.8-1.7, 56.19N-164.32E, h2km, 11km,
n52, s133/58, mb3.5/7, Komandorskiy Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTR, KBTB, KBG, etc.

ISC 27 19:10:02.8-1.7, 56.19N-164.32E, h2km, 11km,
n52, s133/58, mb3.5/7, Komandorskiy Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KRRP, KRSP, BZWR, etc.

ISC 27 19:18:31.8-1.0, 2.81S-138.50E, h0km, mb3.6/6,
mbtmp3.6/8, ML3.4/2, MS3.1/2, Error ellipse: s-maj=22.2km
s-min=16.8km az=173.0

ISC 27 19:18:36.9-0.9, 9.9S-0.1, 138.6E-0.2, h35km, n10,
s083/8, mb3.6/6, Irian Jaya

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like JAY, WRA, FITZ, etc.

QSPA South Pole Qui 87.09 180 P P 19 31 18.9 -0.1
1.6nm, 1.0s, baz=266, slow=4.3, SNR=5.2
1.6nm, 1.0s

IDC 27 19:22:44.5-4.8, 9.49S-127.79E, h82km, 52km, mb3.2/3,
mbtmp3.4/7, ML3.4/4, Error ellipse: s-maj=47.8km
s-min=18.0km az=35.0

ISC 27 19:22:40.4-1.1, 9.33S-0.09, 127.98E-0.09, h35km, n7,
s222/11, mb3.3/3, Timor Sea

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like BATI, BATI, FITZ, etc.

JMA 27 19:29:43.0-0.1, 40.1, 1N-0.3, 142.5E-0.7, h34km, 1km,
MD4.1/39, MV4.0/39, NE OFF IWATE PREF

JMA Felt J1 at NE OFF IWATE PREF

NIED 27 19:29:43.0, 40.12N-142.45E, h34km, MW4.1, Moment
Tensor Solution, s3 Moment tensor: Scale: 10^15Nm

MOS 27 19:29:43.0-1.1, 40.16N-142.60E, h61km, mb4.6/10 Error
ellipse: s-maj=9.2km s-min=5.7km az=84.6

IDC 27 19:29:45.8-1.9, 40.12N-142.53E, h70km, 15km, mb3.7/20,
mbtmp4.0/26, MS3.2/9, Error ellipse: s-maj=20.3km
s-min=10.9km az=102.0

NEIC 27 19:29:46.3-1.0, 40.23N-0.06, 142.23E-0.09, h59km, 5km,
mb4.4/24, Error ellipse: s-maj=10.5km s-min=8.6km

ISC 27 19:28:43.0-0.7, 40.13N-0.04, 142.49E-0.04, h44km, 6km,
n123, s176/114, mb4.3/41, MS3.6/5, 4C-18D, Near east
coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like JTH, JTH, JKH, etc.

ISC 27 19:28:43.0-0.7, 40.13N-0.04, 142.49E-0.04, h44km, 6km,
n123, s176/114, mb4.3/41, MS3.6/5, 4C-18D, Near east
coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like JTM, JTM, JTM, etc.

ISC 27 19:28:43.0-0.7, 40.13N-0.04, 142.49E-0.04, h44km, 6km,
n123, s176/114, mb4.3/41, MS3.6/5, 4C-18D, Near east
coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like JJA, JJA, JJA, etc.

SHO SHO comp=Z, 1.2nm, 0.2s iS pmax Sn pmax 19 31 45.2 -5.5

SHO SHO comp=N, 56nm, 0.4s smax smax

JGF Kuroka 6.08 224 P Pn 19 31 12.6 +2.0

JGF Kuroka 6.08 224 P Pn 19 31 13.5 +2.9

JGF Inuyama 6.45 224 P Pn 19 31 17.1 +1.5

JGF Inuyama 6.45 224 P Pn 19 31 19.7 +4.1

JGF Kuril'sk 6.46 36 P Pn 19 31 17.2 +1.5

JGF Kuril'sk 6.46 36 P Pn 19 31 25.9 -2.1

KUR comp=Z, 36nm, 0.5s smax smax

KUR comp=N, 64nm, 0.7s smax smax

KUR comp=E, 60nm, 0.7s smax smax

YSS Yuzhno-Sakhali 6.83 2deP Pn pmax 19 31 22.1 +1.3

USRK comp=Z, 29nm, 2.5s 8.80 301 P Pn 19 31 50.5 +2.7

USRK comp=Z, 6.9nm, 0.7s, baz=108, slow=13, SNR=8.8 LR 19 34 58.2

JNU Nakatsue 11.65 237 P Pn 19 32 28.8 +1.8

JNU comp=Z, 3.9nm, 0.8s, baz=41, slow=11, SNR=2.1 LR 19 32 37.4

KSR5 Korea Array 11.68 261 P Pn 19 32 31.8 +4.5

KLR Kul'dur 11.86 324 P Pn 19 32 33.4 +3.5

KLR comp=Z, 0.7nm, 0.5s, baz=31, slow=15, SNR=1.6 LR 19 37 08.3

ZEA Zeya 17.09 328 eP P 19 33 40.0 +0.1

YAK Yakutsk 23.27 345 P P 19 33 46.4 -0.2

YAK Yakutsk 23.27 345jP P pmax 19 34 44.4 -2.3

HHC Hu-ho-hao-te 23.48 282 eP Pmax pmax 19 34 47.0 -2.0

HHC comp=Z, 13nm, 0.6s pmax pmax

HHC comp=Z, 88nm, 4.7s LR LR

HHC comp=N, 79nm, 12.2s LR LR

HHC comp=E, 100nm, 13.0s LR LR

SEY Seymchan 23.60 11 P P 19 34 50.0 +0.3

SEY comp=Z, 3.8nm, 1.0s, baz=186, slow=12, SNR=7.0 comp=Z, 3.8nm, 1.0s

SEY Seymchan 23.60 11jP P pmax 19 34 50.7 +1.0

ULN comp=Z, 10.0nm, 0.7s 26.46 299 P P 19 35 14.2 -2.0

ULN Ulanbator 26.46 299 P P 19 35 14.2 -2.0

ULN comp=Z, 1.0nm, 0.7s 26.46 299 P Pmax 19 35 20.3 +0.2

SOMN Songino Array 26.90 299 P Pmax 19 35 20.4 +0.3

SOMN comp=Z, 1.5nm, 0.7s, baz=103, slow=8.9, SNR=10 comp=Z, 1.5nm, 0.7s

SOMN Songino Array 26.90 299 P Pmax 19 35 20.3 +0.2

SOMN comp=Z, 1.0nm, 1.0s 26.90 299 P Pmax 20 06 19.7

H1N2 WAKE ISLAND Hy 29.17 127 T T 20 06 19.7

H1N1 WAKE ISLAND Hy 29.17 127 T T 20 06 24.3

H1N3 WAKE ISLAND Hy 29.17 127 T T 20 06 23.0

H1S1 WAKE ISLAND Hy 29.98 129 T T 20 07 24.1

H1S3 WAKE ISLAND Hy 29.98 129 T T 20 07 23.7

H1S2 WAKE ISLAND Hy 30.00 129 T T 20 07 14.9

GTA Gaotai 32.58 283 eP P 19 36 11.5 +1.0

GTA Gaotai 32.58 283 pP Pmax 19 36 17.3 -5.0

ZALV Zalesovo Beam 40.52 310 P P 19 37 17.4 -0.3

ZALV comp=Z, 3.0nm, 1.0s 40.52 310 P Pmax 19 37 17.7 -0.1

ZALV comp=Z, 1.5nm, 0.6s 40.52 310 eP Pmax 19 37 17.7 -0.1

E19K Redstone River 42.36 30 P P 19 37 34.5 +1.8

H19K Roundabout Mou 42.42 33 P P 19 37 34.6 +1.5

H19K comp=Z, 6.4nm, 0.8s 42.42 33 Iamb Iamb 19 37 51.3

CMAR Chiang Mai Arr 43.16 253 P P 19 37 40.3 +0.6

CMAR comp=Z, 3.0nm, 0.5s 43.16 253 P Pmax 19 37 41.4 -0.6

MAKZ Makanchi 43.47 300 P P 19 37 41.4 -0.6

MAKZ Makanchi 43.47 300 P Pmax 19 37 41.4 -0.6

KURK Kurchatov 44.75 306 P P 19 37 51.3 -0.8

KURK Kurchatov Arra 44.75 306 P P 19 37 52.8 +0.7

KURB Kurchatov Arra 44.75 306 P P 19 37 52.8 +0.7

E2K3 Chandalar 45.30 29 Iamb Iamb 19 38 36.6

ILAR comp=Z, 4.9nm, 0.9s 46.44 34 P P 19 38 05.7 +0.3

ILAR comp=Z, 0.7nm, 0.7s 46.44 34 P Pmax 19 38 05.7 +0.3

D25K Kavik River 46.51 28 Iamb Iamb 19 38 48.1

EVN Everest 47.01 273 Iamb Iamb 19 38 10.2 -0.8

EVN Everest 47.01 273 Iamb Iamb 19 38 13.9

F26K Sheenkyj River 47.38 30 Iamb Iamb 19 38 30.8

BOOM Boomskeye usch 48.88 296 Iamb Iamb 19 38 26.3

E28M Babbage River 49.02 28 P P 19 38 27.4 +2.1

BVAR Borovoye Array 49.16 311 P P 19 38 26.9 +0.4

BRVK Borovoye 49.22 311 P P 19 38 27.0 +0.1

BRVK comp=Z, 2.6nm, 0.7s 49.22 311 Iamb Iamb 19 38 28.6

BRVK Borovoye 49.22 311 P Pmax 19 38 27.0 +0.1

E29M Blow River 49.65 29 P Iamb Iamb 19 38 32.3 +2.3

E29M comp=Z, 2.9nm, 1.0s 49.65 29 Iamb Iamb 19 38 47.4

F30M Barrier River 50.56 29 Iamb Iamb 19 38 48.8

I30M Mount Dempster 50.80 32 P Iamb Iamb 19 38 40.5 +1.6

I30M comp=Z, 2.2nm, 0.8s 50.80 32 Iamb Iamb 19 38 40.7

KKAR Karatay Array 52.35 298 Iamb Iamb 19 38 51.5

SVE Sverdljovsk 53.42 317 eP Pmax 19 38 59.3 +1.0

ARTI Arti 54.74 317 P P 19 39 07.8 -0.2

ARTI Arti 54.74 317dP P P 19 39 08.1 +0.1

ARTI Arti 54.74 317 P P 19 39 23.7 -1.6

ARTI Arti 54.74 317 P P 19 40 07.7

ARTI Arti 54.74 317 P P 19 46 43.6 -1.4

ARTI Arti 54.74 317 P P 19 50 21.8 -6.1

SIJM Simigan 55.25 294 P P 19 39 11.5 -0.6

ABKAR Abkuls array 56.63 309 Iamb Iamb 19 39 22.5

KBL Kabul 57.14 290 P P 19 39 25.1 -0.6

KBL Kabul 57.14 290 P Pmax 19 39 25.1 -0.6

KBL comp=Z, 9.0nm, 1.0s 57.14 290 P Pmax 19 39 54.5 -0.4





Table of astronomical observations for 27 days and 20 hours. Columns include Code, Station Name, Azimuth, Altitude, Phase ID, Time, and Residual. Includes stations like PVRL, POLO, ESPR, etc.

Table of astronomical observations for 27 days and 20 hours. Columns include Code, Station Name, Azimuth, Altitude, Phase ID, Time, and Residual. Includes stations like JAY, SRPI, BAKI, etc.

Table of astronomical observations for 27 days and 20 hours. Columns include Code, Station Name, Azimuth, Altitude, Phase ID, Time, and Residual. Includes stations like VAYK, VAYK, HAYK, etc.

Summary text at the bottom of the page, including coordinates and observation details.





27D 20h

Table with columns for station call letters, name, frequency, and other technical details. Includes stations like TRVZ, SNVZ, OTVZ, etc.

2019 JUN

Table with columns for station call letters, name, frequency, and other technical details. Includes stations like KURBB, KURK, KURK, etc.

1786

Table with columns for station call letters, name, frequency, and other technical details. Includes stations like K15K, N15K, H16K, etc.



27d 20h

Table with columns: Station Name, Az, El, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation. Includes stations like N31M Braeburn, N31K Braeburn, INK Inuvik, etc.

2019 JUN

Table with columns: Code, Station Name, Az, El, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation. Includes stations like ESDC Sonseca Array, ESDC comp=Z,0.7nm,0.8s, etc.

1788

Table with columns: Code, Station Name, Az, El, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation, Azimuth, Elevation. Includes stations like AKTO Aktubinsk, AKTO Aktubinsk, ZALV Zalesovo Beam, etc.



27d 20h

Table with columns: SATY, Name, Comp, Az, El, P, Max, Min, etc. Includes entries like Saty, Nikolski High, Kashi, Kajisay, Nilore, Taldyqorghan, etc.

2019 JUN

Table with columns: N16K, Name, Comp, Az, El, P, Max, Min, etc. Includes entries like Nishlik Lake, Niukluk, Borovoye, Borovoye, Timber Creek, etc.

1790

Table with columns: I20K, Name, Comp, Az, El, P, Max, Min, etc. Includes entries like Naaghedeneel, Redstone River, Anotleneega Mo, Kuna River, etc.



ILAR	comp=Z,6.6nm,0.8s	85.88	24	P	P	20 57 51.5	-3.3
ILAR	Eielson Array	85.88	24	P	P	20 57 52.9	-1.9
ILAR	comp=Z,5.4nm,0.7s,baz=263,slow=4.6,SNR=5.1					21 34 25.3	
TOLK	comp=Z,1.05nm,19.6s,baz=229,slow=34	85.96	20	Iamb	Iamb	20 58 04.7	
TOLK	Toolik Lake Re	85.96	20	P	P	20 57 54.8	-0.3
BMRM	Bremner River	85.97	28	Iamb	Iamb	20 58 11.8	
C23K	Itkillik River	85.99	19	P	P	20 57 54.8	-0.3
PAX	comp=Z,1.1nm,1.0s	86.04	26	P	P	20 57 55.1	-0.6
K24K	Donnelly Dome	86.10	26	P	P	20 57 55.6	-0.3
N25K	Chitina, Valde	86.12	28	P	P	20 57 55.9	-0.2
G24K	Hadweenciz Riv	86.16	23	P	P	20 57 56.1	-0.1
E24K	Your Creek	86.17	21	P	P	20 57 56.1	-0.2
F24K	Squaw Lake	86.23	22	Iamb	Iamb	20 58 06.5	
F24K	Squaw Lake	86.23	22	P	P	20 57 56.6	0.0
D24K	Happy Valley	86.38	20	P	P	20 57 57.1	0.0
GLB	Gilahina Butte	86.45	28	Iamb	Iamb	20 58 16.9	
J25K	Salcha River	86.47	25	Iamb	Iamb	20 58 04.9	
J25K	Salcha River	86.47	25	P	P	20 57 57.5	-0.2
RIDG	Independent Ri	86.49	26	Iamb	Iamb	20 57 58.7	
RIDG	Independent Ri	86.49	26	P	P	20 57 57.7	-0.2
PRP	Porcupine Dome	86.63	24	P	P	20 57 58.4	-0.2
CRQE	Cirque	86.65	29	P	P	20 57 58.5	-0.3
H25L	Birch Creek	86.69	23	P	P	20 57 58.9	+0.3
G25K	Bearman Lake	86.71	23	P	P	20 57 59.2	+0.4
ARTI	Arti	86.78	327	P	P	20 57 59.0	-0.3
ARTI	Arti	86.78	327	P	P	20 58 03.9	+4.5
ARTI	Arti					21 01 21.8	
ARTI	Arti					21 08 29.9	-3.6
ARTI	Arti					21 14 18.0	-0.8
ARTI	comp=Z,6.0nm,1.1s			MLR	MLR		
MCARA	McCarthy VSAT	86.81	28	P	P	20 57 59.7	+0.3
SCRK	Sand Creek	86.92	26	P	P	20 58 00.1	+0.1
L26K	Log Cabin Wild	87.00	27	Iamb	Iamb	20 58 08.6	
L26K	Log Cabin Wild	87.00	27	P	P	20 58 00.4	+0.1
M26K	Habesa, AK	87.03	27	P	P	20 58 00.5	0.0
F25K	Christian River	87.09	22	Iamb	Iamb	20 58 20.3	
F25K	Christian River	87.09	22	P	P	20 58 00.9	+0.2
MESA	MESA	87.10	29	P	P	20 58 00.8	-0.3
J26L	Joseph Creek	87.21	25	P	P	20 58 01.0	-0.4
E25K	Arctic Village	87.24	21	P	P	20 58 01.6	+0.2
QSPA	South Pole Qui	87.26	180	P	P	20 58 01.5	-0.2
QSPA	South Pole Qui	87.26	180	P	P	20 58 01.3	-0.4
D25K	Kavik River	87.26	20	P	P	20 58 01.6	+0.1
BARN	Barnard Glacier	87.40	29	Iamb	Iamb	20 58 03.2	
BMAR	Burnt Mountain	87.44	22	P	P	20 58 02.6	+0.2
M27K	Edge Creek, AK	87.53	27	P	P	20 58 02.9	-0.1
CTG	Chitna Glacier	87.54	29	P	P	20 58 03.5	+0.4
I26K	Coal Creek Min	87.55	24	P	P	20 58 02.1	-0.8
G26K	Porcupine River	87.64	23	Iamb	Iamb	20 58 13.2	
G26K	Porcupine River	87.64	23	P	P	20 58 03.7	+0.4
F26K	Sheenjek River	87.67	22	Iamb	Iamb	20 58 13.5	
F26K	Sheenjek River	87.67	22	P	P	20 58 04.1	+0.6
L27K	Beaver Creek	87.68	27	Iamb	Iamb	20 58 12.2	
L27K	Beaver Creek	87.68	27	P	P	20 58 04.2	+0.6
BCAR	Beaver Creek A	87.70	27	P	P	20 58 02.7	-1.0
K27K	Chicken	87.75	26	Iamb	Iamb	20 58 14.6	
K27K	Chicken	87.75	26	P	P	20 58 04.1	+0.2
BVCY	Beaver Creek	88.01	27	P	P	20 58 05.9	+0.7
YUK3	Moose Creek	88.09	28	P	P	20 58 05.8	0.0
I27K	Kandik River	88.23	24	P	P	20 58 06.5	+0.2
C27K	Iago River	88.25	20	P	P	20 58 06.5	+0.4
H27K	Steamboat Moun	88.38	24	P	P	20 58 07.4	+0.5
G27K	Doyon Strip	88.44	23	Iamb	Iamb	20 58 28.8	
G27K	Doyon Strip	88.44	23	P	P	20 58 07.5	+0.3
E27K	Coleen River	88.71	22	P	P	20 58 08.5	+0.1
O29M	Mount Kennedy	88.78	30	P	P	20 58 08.5	-0.5
I28M	Miner Creek	88.90	24	Iamb	Iamb	20 58 18.8	
I28M	Miner Creek	88.90	24	P	P	20 58 09.5	+0.1
DAWY	Dawson	88.92	26	Iamb	Iamb	20 58 10.6	
DAWY	Dawson	88.92	26	P	P	20 58 09.3	-0.3
YUK6	Outpost Mounta	88.97	29	P	P	20 58 09.6	-0.4
M29M	Somme Creek	89.11	27	P	P	20 58 10.5	-0.1
P29M	Windy Craggy	89.12	30	P	P	20 58 10.7	+0.2
F28M	Old Crow	89.26	22	P	P	20 58 11.2	+0.2
L29M	L29M	89.35	27	Iamb	Iamb	20 58 12.4	
L29M	L29M	89.35	27	P	P	20 58 11.8	+0.2
HYT	Haines Junctio	89.37	29	Iamb	Iamb	20 58 16.1	
HYT	Haines Junctio	89.37	29	P	P	20 58 11.8	0.0
E28M	Babbage River	89.53	21	Iamb	Iamb	20 58 20.4	
E28M	Babbage River	89.53	21	P	P	20 58 12.6	+0.4
I29M	Ogilvie Camp,	89.56	25	P	P	20 58 12.8	+0.3
N30M	Aishkik Lake	89.64	29	Iamb	Iamb	20 58 13.5	
N30M	Aishkik Lake	89.64	29	P	P	20 58 12.8	-0.1
H28M	Whitestone	89.65	24	P	P	20 58 13.0	+0.2
K29M	Barlow Dome	89.71	26	Iamb	Iamb	20 58 22.9	

K29M	Barlow Dome	89.71	26	P	P	20 58 13.6	+0.3
G29M	Pine Creek	89.87	23	P	P	20 58 14.1	+0.2
M30M	Minto, Yukon	89.90	27	Iamb	Iamb	20 58 22.8	
M30M	Minto, Yukon	89.90	27	P	P	20 58 14.2	+0.1
E29M	Blow River	90.10	22	P	P	20 58 15.4	+0.5
N31M	Bræburn, Yuko	90.27	29	Iamb	Iamb	21 01 32.0	
N31M	Bræburn, Yuko	90.27	29	P	P	20 58 16.3	+0.5
J30M	Hart River	90.31	25	Iamb	Iamb	20 58 25.6	
J30M	Hart River	90.31	25	P	P	20 58 16.3	+0.3
SKAG	Skagway	90.32	31	P	P	20 58 16.4	+0.4
EPYK	Eagle Plains	90.33	24	P	P	20 58 16.4	+0.4
I30M	Mount Dempster	90.35	25	P	P	20 58 16.3	+0.1
G30M	Laoh Zraii Nji	90.58	23	P	P	20 58 17.0	-0.2
WHY	Whitehorse	90.64	29	P	P	20 58 17.7	0.0
R32K	Eaglecrest	90.65	32	P	P	20 58 17.3	-0.3
SYO	Syowa Base	90.72	201	ePcP	PcP	20 58 19.5	+0.7
F30M	Barrier River	90.81	22	P	P	20 58 18.0	-0.2
M31M	Drury Creek, Y	90.98	28	P	P	20 58 18.9	-0.2
P32M	Atlin	91.15	31	P	P	20 58 19.7	-0.3
H31M	Peel River	91.24	24	P	P	20 58 20.0	-0.3
F31M	Satah River	91.34	23	P	P	20 58 20.5	-0.1
G30M	Faro, Yukon	91.47	28	P	P	20 58 21.2	-0.3
N32M	Quiet Lake	91.55	29	Iamb	Iamb	20 58 23.2	
N32M	Quiet Lake	91.55	29	P	P	20 58 21.7	-0.1
F31M	Tsiigehtich	91.58	23	P	P	20 58 21.5	-0.2
P33M	Teshik	91.63	30	P	P	20 58 21.9	-0.4
INK	Inuvik	91.71	22	P	P	20 58 22.1	-0.2
Q32M	Nakina River	91.86	31	P	P	20 58 23.9	+0.4
MMPY	Sheldon Lake,	92.46	28	P	P	20 58 25.6	-0.4
BELG	Belogornoye	92.68	322	eP	Pmax	20 58 28.6	+1.5
BELG	Belogornoye						
BBB	Bella Bella	94.16	38	LR	LR	21 33 15.2	
KIV	Kislovodsk	96.08	314	eP	Pmax	20 58 40.0	-3.1
O02D	Mt. Diabolo Mer	98.35	50	P	P	20 58 51.3	-2.2
SPITS	Spitsbergen Ar	98.94	350	LR	LR	21 42 13.1	
YKA	Yellowknife Ar	100.12	27	P	P	20 58 59.4	-1.3
TROLL	Troll, Antarti	100.31	193	P	P	20 59 03.3	+1.7
SNAA	SNAA	101.70	192	P	P	20 59 06.4	-1.3
NVAR	Mina Array Bea	101.96	51	P	P	20 59 08.8	-0.9
AK03	Malin Array S1	104.25	322	P	P	20 59 18.7	-0.6
STHS	Stebnicka Huta	109.55	322	iP	P	20 59 38.6	-4.4
STHS	Stebnicka Huta	109.55	322	ePDIFF	P	20 59 38.6	-4.4
OKC	Ostrava-Krasne	111.28	323	AMS	AMS	21 55 40.0	
KRLC	Kraliky	111.99	324	AMS	AMS	21 55 00.0	
DPC	Dobruska-Polom	112.15	324	AMS	AMS	21 56 40.0	
CHVC	Chvalec	112.21	324	AMS	AMS	21 56 50.0	
UPC	Uvice	112.27	324	AMS	AMS	21 56 50.0	
GOPC	GO Peeny, Ondr	113.23	324	AMS	AMS	21 57 30.0	
PRU	Prunice Ar	113.34	324	AMS	AMS	21 58 10.0	
PRA	Prague	113.37	324	AMS	AMS	21 54 30.0	
CLL	Collm	113.63	326	eSS	SS	21 20 30.0	-2.8
CLL	Collm			eSSSS	SS	21 27 54.0	
CLL	Collm			AMS	AMS	21 56 00.0	
CLL	Collm			AMS	AMS	21 56 00.0	
ZVC	Zvikov	113.78	324	AMS	AMS	21 58 10.0	
CKRO	Cesky Krumlov	113.98	323	AMS	AMS	21 57 50.0	
KHC	Kasperske Hory	114.28	324	AMS	AMS	21 55 10.0	
TXAR	Lajitas Array	115.42	59	PKP	PKP	21 03 55.1	-2.8
CPUP	Villa Florida	147.32	153	PKPbc	PKP	21 04 58.0	+0.7
CPUP	Villa Florida	147.32	153	PKP2	PKP	21 04 58.0	+0.7
LPAZ	La Paz	147.59	126	PKPbc	PKP	21 05 01.2	-0.2

HOLC	Beaumont Base	0.50	102	Sg	Sg	20 51 02.4	+0.5
BBSC	Beaumont Base	0.50	102	P	P	20 50 56.4	-0.1
BBSC	Beaumont Base	0.50	102	P	P	20 51 04.0	-0.8
JNH	Juniper Hills	0.53	323	Sg	Sg	20 51 03.4	-0.7
MURC	Murrieta	0.53	144	Sg	Sg	20 51 06.5	-0.5
MURC	Murrieta	0.53	144	P	P	20 51 03.7	-0.4
PASC	Pasadena Art C	0.53	286	Sg	Sg	20 50 56.3	-0.9
ADO	Adelanto Reel C	0.53	12	Sg	Sg	20 51 04.8	+0.4
HMT	Hemet	0.57	124	Sg	Sg	20 51 04.8	-0.6
VTV	Victorville	0.57	20	Sg	Sg	20 51 04.9	-0.5
WFC	Watts, South G	0.58	262	Sg	Sg	20 51 07.9	+0.9
BBSC	Big Bear Solar	0.58	86	Sg	Sg	20 51 05.2	-0.6
DGR	Domengioni Val	0.60	129	Sg	Sg	20 50 57.6	-0.8
DGR	Domengioni Val	0.60	129	P	P	20 51 05.5	-0.8
BACC	Bachelor Mtn.	0.60	133	Sg	Sg	20 51 05.6	-0.9
GRZC	Griffith Obs.	0.61	279	Pg	Pg	20 50 57.9	-0.9
LRLC	Litterlock Res	0.63	323	Sg	Sg	20 51 06.9	-0.3
LRRC	Litterlock Res	0.63	323	P	P	20 51 06.9	-0.3
POB	Polly Butte	0.64	122	Sg	Sg	20 50 58.4	-0.7
POB	Polly Butte	0.64	122	P	P	20 51 06.8	-0.7
BHPC	Baldwin Hills	0.66	267	Sg	Sg	20 51 11.3	-1.0
DECC	Green Verdugo	0.67	290	Sg	Sg	20 51 09.3	+0.6
FMP	Fort MacArthur	0.68	243	Sg	Sg	20 51 14.5	-0.8
CJV	Casa Juvan	0.69	317	Pg	Pg	20 50 59.4	-0.8
SIL	Silver Peak	0.69	62	Pg	Pg	20 50 59.8	-0.4
SIL	Silver Peak	0.69	62	P	P	20 51 09.0	-0.2
DJJ	Donna J Jenkin	0.74	2				

27d 20h

cutoff=40s. nsta2 refers to surface waves, cutoff=50s. Triangular moment-rate function

NOU 27 20:58:33.4, 20:82S, 173.93W, h90km, mb5.5/92, Tonga Islands

ISC 27 20:58:23.8, 0.2, 20.75S, 173.87W, 0.04, h10km, n841, r1992/762, mb5.3/183, MS4.3/53, 49C-34D, Tonga Islands

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res, ISC. Lists various seismic stations and their recorded data.

2019 JUN

Main table listing seismic events with columns: INZ, Inc, OXZ, OXF, OXZ, OXF, MOZ, MCQueen's Vall, MCQueen's Vall, RAKAIA, Waiaha Valley, etc.

1792

Table listing seismic events with columns: WRAB, Tennant Creek, WRAB, Warramunga Arr, Warramunga Arr, etc.

ASAJ	Asahikawa	75.86 329 P	P	21 10 10.4 +0.1
ASAJ	comp-Z,11nm,1.0s,baz=215,slow=3.6,SNR=9.1	LR		21 37 50.3
LPIG	La Paz	76.25 57 LR	LR	21 35 20.3
TWGBT	Belian	76.79 301 P	P	21 10 15.4 -0.7
TWG	Pinlang	76.80 301 I Amb	I Amb	21 10 15.4
LEM	Lembang	76.89 268 LR	LR	21 45 15.3
YULB	Yu-li	76.90 301 I Amb	I Amb	21 10 17.4
YULB	Yu-li	76.90 301 P	P	21 10 15.9 -0.8
PFO	Pinyon Flats O	76.91 46 LR	LR	21 10 18.1 +1.4
PFO	Pinyon Flats O	76.91 46 LR	LR	21 37 26.9
PFO	Pinyon Flats O	76.91 46 P	P	21 10 18.1 +1.4
PFO	comp-Z,7.0nm,1.0s	pmax		
SMAI	San Martin Ant	76.97 158 P	P	21 10 17.2 +0.9
SMAI	comp-Z,16nm,0.9s	I Amb	I Amb	21 10 18.9
NACB	Ninganchang	77.05 302 P	P	21 10 16.8 -0.7
CMB	Columbia Colle	77.08 41 P	P	21 10 18.6 +1.1
CMB	Columbia Colle	77.08 41 P	P	21 10 18.6 +1.1
CMB	comp-Z,7.0nm,1.0s	pmax		
KSM	Kuching	77.28 276 P	P	21 10 19.1 0.0
SSLB	Suanglung	77.37 302 I Amb	I Amb	21 10 19.0
SSLB	comp-Z,3.9nm,0.9s			
SSLB	Suanglung	77.37 302 P	P	21 10 18.5 -0.9
TPUB	Ta-pu	77.39 301 P	P	21 10 18.1 -1.4
YHNB	Yeheng	77.47 303 P	P	21 10 19.9 -0.1
YHNB	Yeheng	77.47 303 P	P	21 10 19.9 -0.1
PEA0B	Petrovavlovsk-	77.57 343 I/P	I/P	21 10 20.5 +0.7
PETK	Petrovavlovsk-	77.57 343 P	P	21 10 19.9 +0.1
PETK	Petrovavlovsk-	77.57 343 P	P	21 10 20.1 +0.3
PETK	comp-Z,12nm,0.9s,baz=118,slow=7.9,SNR=13	LR		21 42 32.4
SPIA	Saint Paul Isl	77.69 2 3 P	P	21 10 23.4 +3.1
DBJI	Dramaga	77.80 268 P	P	21 10 21.9 -0.1
YSS	Yuzhno-Sakhal	77.91 331 I Amb	I Amb	21 10 22.4 +0.6
YSS	Yuzhno-Sakhal	77.91 331 P	P	21 10 23.1 +1.3
YSS	Yuzhno-Sakhal	77.91 331 I/P	I/P	21 10 23.0 +1.3
YSS	comp-Z,4.0nm,0.9s	pmax		
YSS	comp-Z,4.0nm,0.9s	MLR	MLR	
WAKR	Walker	77.95 41 I Amb	I Amb	21 10 25.6
YBH	Yreka Blue Hor	78.13 37 P	P	21 10 24.4 +1.2
YBH	Yreka Blue Hor	78.13 37 P	P	21 10 24.5 +1.2
YBH	comp-Z,6.0nm,1.0s	pmax		
DSP	Deep Springs	78.16 42 P	P	21 10 25.4 +2.0
DSP	comp-Z,16nm,1.1s	I Amb	I Amb	21 10 26.7
PNTR	Pine Nut	78.22 40 I Amb	I Amb	21 10 46.5
TPI	Tanjungpandan	78.25 271 P	P	21 10 25.5 +1.0
BEKR	Beckworth	78.26 39 P	P	21 10 25.7 +1.5
GWY	Greenwater Val	78.28 44 P	P	21 10 24.9 +0.5
LHV	Little Humpy	78.37 41 I Amb	I Amb	21 10 47.6
SBJI	Serang	78.52 268 P	P	21 10 26.2 +0.2
NVAR	Mina Array Bea	78.61 41 P	P	21 10 27.1 +0.9
NVAR	Mina Array Bea	78.61 41 P	P	21 10 28.2 +2.0
NVAR	comp-Z,10nm,0.8s,baz=223,slow=9.5,SNR=40	LR		21 39 11.1
NVAR	comp-Z,156nm,20.7s,baz=230,slow=31	LR		
NV11	Nelson	78.70 41 I Amb	I Amb	21 10 49.2
CGIJ	Cibinong	78.77 267 P	P	21 10 26.4 -1.0
SLJ	Sitkinak Islan	78.78 11 P	P	21 10 30.0 +3.6
V12A	Nelson	79.21 45 P	P	21 10 29.5 +0.1
TJN	Taejon	79.42 315 I/P	I/P	21 10 32.1 +1.7
R17L	Mt. Peulik Vol	79.44 9 P	P	21 10 33.4 +3.3
KSR5	Korea Array	79.68 317 P	P	21 10 33.1 +1.3
KSR5	comp-Z,5.2nm,0.9s,baz=132,slow=5.7,SNR=14	LR		21 40 08.3
KSR5	comp-Z,3.3um,21.8s,baz=130,slow=32	LR		
KSAR	Kusokwak Cree	79.70 317 P	P	21 10 31.8 -0.1
KSAR	Wonju Array Be	79.70 317 P	P	21 10 31.8 -0.1
J05D	Fork Rock, OR	79.97 36 P	P	21 10 33.8 +0.4
PRN	Pahroc Range	80.05 44 I Amb	I Amb	21 10 57.2
Q17K	Contact Creek	80.12 10 P	P	21 10 36.2 +2.3
TUC	Tucson	80.14 50 P	P	21 10 34.9 +0.4
TUC	Tucson	80.14 50 P	P	21 10 34.9 +0.4
TUC	comp-Z,10.0nm,1.1s	pmax		
O15K	Ungalikthiuk R	80.47 7 P	P	21 10 38.2 +2.7
P16K	Nushagak River	80.56 8 P	P	21 10 38.9 +2.9
P16K	Katmai Hardscr	80.63 10 P	P	21 10 39.8 +3.2
X16A	Lo Mia Camp, P	80.80 48 I Amb	I Amb	21 13 01.3
LWLI	Lwua	80.83 268 P	P	21 10 39.2 +0.5
MDSI	Maura Dua	80.91 269 P	P	21 10 37.3 -1.7
P17K	Kvichak River	80.94 9 P	P	21 10 41.1 +3.1
N14K	Kusokwak Cree	81.00 6 P	P	21 10 41.8 +3.5
Q20K	Shuyak Island	81.04 11 P	P	21 10 41.6 +3.0
M11K	Mekoryuk	81.08 4 P	P	21 10 41.5 +2.7
O16K	Kokwok River B	81.09 8 P	P	21 10 41.5 +2.7
Q19K	Cape Douglas,	81.12 10 P	P	21 10 42.0 +2.9
P18K	Big Mountain,	81.31 10 I Amb	I Amb	21 10 59.6
P18K	Big Mountain,	81.31 10 P	P	21 10 42.2 +2.1
M13K	Dall Lake	81.33 5 P	P	21 10 43.1 +3.1
USRK	Ussuriysk Ar.	81.39 324 P	P	21 10 41.8 +1.0
USRK	Ussuriysk Ar.	81.39 324 P	P	21 10 41.0 +0.1
USRK	comp-Z,5.5nm,0.8s,baz=119,slow=4.4,SNR=9.4	LR		21 43 07.0
USRK	comp-Z,2.30nm,20.2s,baz=137,slow=33	LR		
USRK	Ussuriysk Ar	81.39 324 P	P	21 10 41.8 +1.0
O17K	Koliganek Bris	81.40 8 P	P	21 10 43.8 +3.4
N15K	Kwethluk River	81.41 7 P	P	21 10 43.6 +3.1
DUN6	Lazy B Ranch	81.48 51 I Amb	I Amb	21 10 45.0
O18K	Koktuh Hills	81.75 9 P	P	21 10 45.6 +3.2
M14K	Bethel	81.78 6 P	P	21 10 44.6 +2.1
M15K	Kasigliuk River	81.86 7 P	P	21 10 45.5 +2.7
N16K	Nishitk Lake	81.86 7 P	P	21 10 45.9 +2.9
P19K	Oli Pt	81.88 10 P	P	21 10 46.1 +3.1
N17K	Nushagak Hills	82.11 8 P	P	21 10 47.2 +3.0
HOM	Homer	82.16 11 P	P	21 10 47.3 +2.8
L14K	Kuka Creek	82.30 5 P	P	21 10 48.1 +2.9
M16K	Timber Creek	82.37 7 P	P	21 10 47.8 +2.2
O20K	Slope Mountain	82.39 11 P	P	21 10 48.3 +2.5

BRSE	Bradley Lake S	82.41 12 P	P	21 10 48.5 +2.7
N18K	Kilae Creek	82.44 9 P	P	21 10 49.4 +3.4
G08A	Pilot Rock	82.52 36 I Amb	I Amb	21 11 09.0
MAW	Mawson	82.61 199 P	P	21 10 47.2 +0.3
H03S2	Juan Fernandez	82.64 123 T	T	22 43 14.7
H03S1	Juan Fernandez	82.66 123 T	T	22 43 19.9
H03S3	Juan Fernandez	82.66 123 T	T	22 43 18.7
KSI	Kapahiang	82.68 269 P	P	21 10 47.5 -0.9
K13K	Kusigliuk Mount	82.73 4 P	P	21 10 50.8 +3.4
L15K	Ungalak Mounta	82.74 6 P	P	21 10 49.8 +2.3
N19K	Bonanza Creek	82.78 9 P	P	21 10 50.1 +2.2
ESPZ	Base Esperanza	82.87 156 P	P	21 10 48.4 +0.1
ESPZ	comp-Z,17nm,1.1s	I Amb	I Amb	21 10 51.6 +3.1
M17K	Holittna River	82.93 8 P	P	21 10 52.0 +3.3
L16K	Owlat River	82.98 7 P	P	21 10 51.7 +2.9
SEW	Seward	82.99 123 I Amb	I Amb	21 10 51.7
MDJ	Mudanjiang	82.99 323 P	P	21 10 50.0 +0.8
MDJ	Mudanjiang	82.99 323 P	P	21 10 49.3 +0.1
MDJ	Mudanjiang	82.99 323 P	P	21 10 51.3 +1.5
NJ2	Nanjing	83.05 308 P	P	21 11 17.1
NJ2	comp-Z,18nm,0.5s	pmax		
MFID	Camas Ranch	83.12 39 I Amb	I Amb	21 11 17.1
M18K	Stony River	83.23 9 P	P	21 10 52.3 +2.3
K15K	Wolf Creek Mou	83.34 6 P	P	21 10 53.9 +3.3
MYKOM	Kota Tinggi	83.41 274 P	P	21 10 52.1 0.0
Q16A	Castle Valley	83.43 44 I Amb	I Amb	21 11 15.4
L17K	Donlin	83.53 7 P	P	21 10 54.7 +3.2
TMUT	Trail Mountain	83.61 44 I Amb	I Amb	21 10 56.2
J14K	Nanvaranak Lok	83.62 5 P	P	21 10 55.0 +3.0
VHRN	Van Horn	83.64 54 I Amb	I Amb	21 10 55.7
D08A	Wollman Farm,	83.66 34 I Amb	I Amb	21 10 55.1
L18K	Granite Mounta	83.81 8 I Amb	I Amb	21 11 14.0
L18K	Granite Mounta	83.81 8 P	P	21 10 55.7 +2.7
Y22D	IRIS PASSCAL I	83.82 50 P	P	21 10 54.8 +0.9
M19K	Big River Lodg	83.83 9 P	P	21 10 55.1 +2.0
RC01	Rabbit Creek A	83.85 12 P	P	21 10 56.2 +3.0
V35K	Ketchikan	83.87 23 P	P	21 10 55.3 +1.9
PWL	Port Wells	83.91 12 P	P	21 10 56.4 +2.8
SRU	San Rafael Swe	83.96 44 I Amb	I Amb	21 10 57.3
TXAR	Lajitas Array	83.97 56 P	P	21 10 56.1 +1.3
TXAR	Lajitas Array	83.97 56 P	P	21 10 56.0 +1.3
TXAR	comp-Z,3.8nm,1.0s,baz=215,slow=6.1,SNR=24	LR		21 42 59.3
TXAR	comp-Z,7.4nm,19.6s,baz=269,slow=32	LR		
TXAR	Leifias Array	83.97 56 P	P	21 10 56.1 +1.3
SIT	Sitka	83.98 20 P	P	21 10 56.6 +2.7
HVU	Hansel Valley	84.00 41 I Amb	I Amb	21 11 16.4
M20K	Sly River	84.00 10 P	P	21 10 56.0 +1.9
SUA	Susitna One	84.01 11 I Amb	I Amb	21 11 15.0
SUA	Susitna One	84.01 11 P	P	21 10 57.0 +2.8
SUA	Susitna One	84.01 11 P	P	21 10 56.6 +2.4
HLID	Hailey	84.04 39 I Amb	I Amb	21 11 17.4
K17K	Iditarod	84.10 7 P	P	21 10 57.5 +3.0
EYAK	Cordova Ski Ar	84.16 14 P	P	21 10 57.8 +3.0
GLI	Glacier Island	84.17 13 P	P	21 10 58.3 +3.4
SKT	Skwentna	84.36 10 P	P	21 10 59.4 +3.6
J16K	Amur River	84.40 6 P	P	21 10 58.9 +2.9
P18A	Preston Nutt	84.42 44 I Amb	I Amb	21 11 19.1
L20K	Farewell, AK	84.45 9 P	P	21 10 59.2 +2.8
PV18	Skein Mesa, Pa	84.57 46 I Amb	I Amb	21 11 09.1
BSUT	Blindstream Ca	84.58 43 I Amb	I Amb	21 11 00.5
PV20	West Nyswonger	84.58 46 I Amb	I Amb	21 11 23.1
ANMO	Albuquerque	84.58 50 I Amb	I Amb	21 10 59.1 +1.3
ANMO	Albuquerque	84.58 50 LR	LR	21 11 00.7
ANMO	Albuquerque	84.58 50 LR	LR	21 45 10.1
ANMO	Albuquerque	84.58 50 I/P	I/P	21 10 59.3 +1.4
J17K	VABM Dome	84.67 7 P	P	21 11 00.4 +3.0
MESA	MESA	84.72 15 P	P	21 11 00.8 +2.9
KLR	Kul'dur	84.76 328 P	P	21 10 57.6 -0.5
KLR	comp-Z,3.2nm,1.0s,baz=110,slow=10.0,SNR=5.1	LR		21 44 47.3
KLR	comp-Z,7.8nm,19.7s,baz=148,slow=33	LR		
KLR	Kul'dur	84.76 328 I/P	I/P	21 10 58.5 +0.4
KLR	Kul'dur	84.76 328 P	P	21 10 58.5 +0.4
BMRM	Greener River	84.79 14 P	P	21 11 01.7 +3.6
CN2	Changchou	84.90 321 P	P	21 10 59.8 +0.8
CN2	comp-Z,2.0nm,1.5s	pmax		
BNX	BinXian	84.90 323 I/P	I/P	21 10 59.8 +0.9
BNX	BNX	84.90 323 S	S	21 21 25.5 +2.1
BNX	BNX	84.90 323 P	P	21 10 59.8 +0.8
BNX	comp-Z,14nm,1.4s	LR	LR	
BNX	comp-Z,110nm,20.1s	LR	LR	
BNX	comp-Z,170nm,17.9s	LR	LR	
BNX	comp-Z,180nm,16.8s	LR	LR	
H17K	Unalakleet	84.99 6 P	P	21 11 02.1 +3.2
SCM	Sheep Creek Mo	85.00 12 P	P	21 11 02.9 +3.7
J18K	Innoke River	85.01 8 I Amb	I Amb	21 11 20.3
J18K	Innoke River	85.01 8 P	P	21 11 01.6 +2.5
MA2	Magadan	85.11 343 P	P	21 10 58.8 -0.8
MA2	Magadan	85.11 343 P		





Table with columns: PT/JT, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like Puerto Jimenez, Boquete Panama, Alturas Coton, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like TORO Torodi Ar. Bea, DUNDU Dundred, MASU Masugnshbyn, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KBS Kingsbay, BAREBS Barentsburg, SPAO Spitsbergen Ar, etc.

OSPL 27 22:12:54.1, 1.9, 19.37N:69.16W, h0km, 20km, ML2.9

SDD 27 22:12:54.4, 2.4, 19.09N:69.30W, h27km, 26km, MD3.3, ML2.9, MW3.0

ISC 27 22:12:52.0, 1.5, 19.17N:06.69:24W, 0.04, h1km, 12km, n17, 1537/24, 14C, Dominican Republic region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SMDR Samana, DR, MIDR Miches, NADR Nagua, etc.

KALU Kalix, KALU Kalix, KALU Kalix

SJUU Sjuksmark, SJUU Sjuksmark, SJUU Tornio

KIF Kilpisjarvi, KIF Kilpisjarvi, KIF Kilpisjarvi

RNF Rovaniemi, RNF Sodankyl, RNF Sodankyl

ARCES ARCESS Array B, ARCES ARCESS Array B, ARCES ARCESS Array B

FINES FINES Array B, FINES FINES Array B, FINES FINES Array B

NOA NORSTAR Array B, NOA NORSTAR Array B, NOA NORSTAR Array B

HFS Hagfors, HFS Hagfors, HFS Hagfors

HFS Hagfors, HFS Hagfors, HFS Hagfors

JMA 27 22:24:12.5, 0.5, 23.1N:2.12E, h103km, MV3.0/15, NEAR MIYAKOJIMA ISLAND

ISC 27 22:24:11.3, 2.5, 23.3N:0.1x125.91E:0.09, h35km, n18, 1505/25, Southwestern Ryukyu Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like JOGS Gusukube, MJM2 Miyako jima3, JIRB Irabujima, etc.

JNE Jan Mayen East, JNE Jan Mayen East, JNE Jan Mayen East

JMI Jan Mayen, JMI Jan Mayen, JMI Jan Mayen

SUMG Summit, SUMG Summit, SUMG Summit

SUMG Summit, SUMG Summit, SUMG Summit

DJA 27 22:57:40.7, 0.5, 0.1N:10.12E, h189km, 9km, M3.9/8, mb5.1/1, mb3.7/4, MLV4.0/8, Mw(mb)4.4/1, Northern Molucca Sea

KMSI Cibinong, KMSI Cibinong, KMSI Cibinong

LUWI Luwuk, LUWI Luwuk, LUWI Luwuk

APSI Ampapa, APSI Ampapa, APSI Ampapa

MPSI Mapaga, MPSI Mapaga, MPSI Mapaga

PCI Palu, PCI Palu, PCI Palu

ISC 27 23:15:38.7, 0.7, 5.6:38N:163.74E, h0km, mb3.7/15, mbtm3.7/17, ML3.5/2, MS3.1/4, Error ellipse: s-maj=23.4km s-min=13.7km az=146.0

KRSC 27 23:15:39.5, 1.1, 5.6:13N:164.18E, h41km, 16km, M4.3, MOS 27 23:15:41.3, 0.9, 5.6:17N:164.17E, h34km, mb4.5/3, Error ellipse: s-maj=8.8km s-min=4.9km az=57.5

ISC 27 23:15:39.1, 1.4, 5.6:12N:0.04:164.17E:0.04, h8km, 9km, n108, 1546/112, mb3.8/16, MS3.1/3, 2C-1D, Komandorsky Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, KBTR Krutoberegovo, KBG Krutoberegovo, etc.

JMA 27 22:12:58.2, 0.3, 24.1N:1.14E, h154km, MV4.6/18, IOTO ISLANDS REGION, Volcano Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like JHH2 Haha-jima-NKT2, CBUJ Chichi jima, BSO1 Boso 1, etc.

ISC 27 22:13:42.8, 3.7, 5.37S:147.31E, h255km, 48km, mb3.1/3, mbtm3.6/5, Error ellipse: s-maj=89.0km s-min=29.0km az=118.0

ISC 27 22:13:38.3, 2.8, 5.25S:0.2:147.1E:0.4, h200km, n6, 1545/6, mb3.3/3, Eastern New Guinea region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like PMG Port Moresby, WRA Warramunga Ar, ASAR Alice Springs, etc.

KOLA 27 22:26:58.8, 7.9, 84N:6.64E, h0km, ML2.4, Error ellipse: s-maj=88.1km s-min=26.1km az=30.0, Greenland sea

FCIAR 27 22:26:58.0, 7.9, 30N:4.44E, h10km, station ZF12 has station magnitude of 3.40 station OMEGA has station magnitude of 3.50

BER 27 22:26:58.3, 3.3, 7.9:36N:3.98E, h10km, Mw4.0, ML1.8(DN), Confirmed Earthquake

DNK 27 22:26:59.5, 3.8, 7.9:14N:4.02E, h34km, 37km, ML1.8

ISC 27 22:26:55.4, 1.4, 7.9:39N:0.07:4.05E:0.07, h10km, n26, 1564/39, 3C, Greenland Sea

KIRK Kirishev, KIRK Kirishev, KIRK Kirishev

KPT Kopyto, KPT Kopyto, KPT Kopyto

KMNr Kamenistaya, KMNr Kamenistaya, KMNr Kamenistaya

TUMD Tumrok D, TUMD Tumrok D, TUMD Tumrok D

KBS Kingsbay, KBS Kingsbay, KBS Kingsbay



1799 2019 JUN 28d 0h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PALN Palana, SPN Mys Shipunski, NLC Nalytchevo, etc.

IDC 27:16:09.0,5,6,56:31N,163:94E, h0km, mb3.9/15, mbtm0.3,9/17,1.2,2,786N,65:83E, Error ellipse: s-maj=24.0km s-min=13.5km az=148.0

ISC 27:16:13.2,0.7,56:44N,163:93E,0.1,h23km,n19, c073/19,mb3.9/15,Near east coast of Kamchatka

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PETK Petropavlovsk, ASAJ Asahikawa, ILAR Eielson Array, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PDAR Pinedale Array, NOA NORSTAR Array B, CMAR Chiang Mai Arr, etc.

IDC 27:17:06.1,1.2,27:86N,65:83E, h0km, mb3.8/12, mbtm0.3,8/12,MS3,3/8, Error ellipse: s-maj=25.8km

ISC 27:17:10.8,1.0,27:80N,62:65E,0.1,h35km,n29, c1859/24,mb3.7/11,MSZ,1/7, Pakistan

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SHME Shamm, MDH Madha, MSFE Esma-Masafi, etc.

VAO 27:23:37:57.4,1.7,17:44S:69:96W, h156km,8km, mb4.3 NEIC 27:23:37:58.7,1.8,17:57S:0:07:69:9W,0.1,h164km,6km, mb4.0/11,ML4.1(GUC), Error ellipse: s-maj=15.6km

IDC 27:23:38:00.4,1.7,17:46S:69:58W, h161km,14km, mb3.5/8, mbtm0.4/10,MS3.2/2, Error ellipse: s-maj=22.4km s-min=17.1km az=34.0

GUC 27:23:38:01.3,0.8,17:64S:69:91W, h152km,4km, ML4.1 ISC 27:23:38:07.0,6.1,17:58S:0:05:69:89W,0.07,h162km,6km, n78, c194/89,mb3.9/8, Peru-Bolivia border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PB18 Visivri, WRA Warramunga Arr, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like PB06 IPOC Station P, AF01 San Pedro de A, PB10 IPOC Station P, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like CLDB Colida, RPRD Ribas do Rio P, MT02 Curacav, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SNDB Serra Nova Dou, ITTB Itaituba, CPBS Pacapava Do Su, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SMTB Santa Maria do, JANB Januaria, TXAR Lajas Array, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like DBIC Dimbokro, ULM Lac du Bonnet, QSPA South Pole Qui, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like DAV Davao City (W), DAV 167nm,0.4s,baz=333,slow=19,SNR=2.0, WRA Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like ASAR Alice Springs, MKAR Makanchi Array, KURBB Kurchatov Arr, etc.

TRN 28:00:24:40.0,14:94N,61:22W, h167km, MD3.9, North of Martinique, Windward Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC, h, m, s, ISC. Includes stations like SVN Savane Anatole, ILAM Ilet Lapin Mar, DRTD Roseau, Domin, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PLWZ Palliser, KUZ Kuaotunu, ABAB Kuaotunu, RWGZ Raukumara Rang, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DZM Mont Dzumac, STKA Stephens Creek, WRA Warramunga Arr, ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like DZM Mont Dzumac, STKA Stephens Creek, WRA Warramunga Arr, ASAR Alice Springs.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like STKA Stephens Creek, VANDA Vanda, WRA Warramunga Arr, CASY Casey, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RTAL Retalhuleu, THIG Thig, ESSG Sabana Grande, FG16 Alotenango, Sa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like HUEH Huehuetenango, FAME Alcaaldia de Sa, NUBE Las Nubes, SLOZ Alcaaldia de Sa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like YOIG Yosondua, PINOTEPA Pinotepa, TOXPALAN Toxpalan, TLXACIO Tlaxiaco, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ALPN Alpino, PLPT Palo Pinto, WRA Warramunga Arr, CASY Casey, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like POST Post, X48A Hartselle, Y52A Lilburn, DKNS Dickens, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like TKL Tuckaleechee C, V3K Tuckaleechee C, U49A Red Boiling Sp, W5C1 Wyandotte Falls, etc.

IDC 28 01:03:55.3, 0.8, 2.65S, 138.50E, h0km, mb3.8/7, mbtmp3.8/9, ML3.7/2, Error ellipse: s-maj=20.67km, s-min=17.0km az=1.0

DJA 28 01:03:58.0, 0.4, 2.5S, 138.8E, h10km, M3.8/6, MLV3.8/6, ISC 28 01:04:00.3, 0.7, 2.7S, 0.1, 138.48E, 0.06, h32km, n14, -0.78/14, mb3.8/7, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like SMPI Sarmi, GENI Genyem, JAY Jayapura, ASAR Alice Springs, SONM Songoing Array, MKAR Makanchi Array, VANDA Vanda, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.

IDC 28 01:06:24.2, 2.2, 6.38S, 129.63E, h0km, mb5.1/1, mbtmp3.6/4, ML3.6/3, MS3.2/1, Error ellipse: s-maj=93.4km s-min=28.8km az=76.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FITZ Fitzroy Crossi, WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.

NEIC 28 02:11:17.1, 2.1, 17.3S, 0.1, 178.4W, 0.2, h46km, n9km, mb4.4/24, Error ellipse: s-maj=27.7km s-min=15.0km az=124.0

IDC 28 02:11:23.2, 0.7, 17.29S, 178.72W, h538km, 19km, mb3.4/8, mbtmp4.3/9, Error ellipse: s-maj=24.0km s-min=19.7km az=100.0

ISC 28 02:11:24.3, 0.7, 17.45S, 0.1, 178.7W, 0.1, h547km, n46, -0.67/047, mb4.3/20, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.

IDC 28 01:06:24.2, 2.2, 6.38S, 129.63E, h0km, mb5.1/1, mbtmp3.6/4, ML3.6/3, MS3.2/1, Error ellipse: s-maj=93.4km s-min=28.8km az=76.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FITZ Fitzroy Crossi, WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.

IDC 28 01:06:24.2, 2.2, 6.38S, 129.63E, h0km, mb5.1/1, mbtmp3.6/4, ML3.6/3, MS3.2/1, Error ellipse: s-maj=93.4km s-min=28.8km az=76.0, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like FITZ Fitzroy Crossi, WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.

NEIC 28 02:11:17.1, 2.1, 17.3S, 0.1, 178.4W, 0.2, h46km, n9km, mb4.4/24, Error ellipse: s-maj=27.7km s-min=15.0km az=124.0

IDC 28 02:11:23.2, 0.7, 17.29S, 178.72W, h538km, 19km, mb3.4/8, mbtmp4.3/9, Error ellipse: s-maj=24.0km s-min=19.7km az=100.0

ISC 28 02:11:24.3, 0.7, 17.45S, 0.1, 178.7W, 0.1, h547km, n46, -0.67/047, mb4.3/20, Fiji Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, BVAR Borovoye Array, ILAR Eielson Array, GQSA South Pole Qui, etc.





Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include FW03 Perrin-Whitt E, FW07 Weatherford, 435B Jarrell, etc.

MOS 28 04:30:32.4-1.0, 29.98N:142.85E, h10km, mb4.6/16, Error ellipse: s-maj=17.6km s-min=7.6km az=121.6

BUI 28 04:30:32.6-0.9, 29.95N:142.98E, h17km, mb4.7/8, mb4.5/30, Ms4.0/4, Ms7.3/7.2

ISC 28 04:30:32.3-0.7, 29.96N:142.93E, h0km, mb4.1/16, mbtmp4.1/18, ML3.3/2, MS2.9/3, Error ellipse: s-maj=22.4km s-min=17.7km az=65.0

NEIC 28 04:30:34.1-2.3, 29.97N:0.07:143.0E:0.1, h10km, 1km, mb4.7/14, Error ellipse: s-maj=21.5km s-min=11.8km az=79.0

JMA 28 04:30:36.2-0.2, 29.99N:0.9:14.2E, h52km, MV4.2/15, NEAR TORISHIMA IS

ISC 28 04:30:34.2-0.6, 29.99N:0.05:142.84E:0.09, h10km, n86, c1544/87, mb4.4/34, MS3.8/3, 10C-5D, Southeast of Honshu

Main table of station data for the left column, including codes like CBJJ, JHUJ, BSO1, etc., and station names like Chichi jima, Mitsune, Boso 1, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include ILAR Eielson Array, BVAR Borovoye Array, BRVK Borovoye, etc.

L29M L29M 58.80 31 P I Amb 0 40 32.9 +0.5

GAR Garm 59.02 300 P 0 40 34.4 0.0

ARTI Arti 62.61 321 c i P 0 41 36.2 0.0

ABKAR Akbulak array 63.51 313 P 0 41 04.9 +0.4

ABKAR Akbulak array 63.51 313 P 0 41 04.0 -0.5

YKA Yellowknife Arr 69.34 29 i P 0 41 41.7 +0.2

FINES FINES Array B 75.61 334 P 0 42 18.7 -0.3

KBZ Khabaz 76.47 313 c i P 0 42 25.2 +1.0

KBZ Khabaz 76.47 313 c i P 0 42 25.2 +1.0

AKASG Malin Array Be 80.63 324 c P 0 42 47.2 +0.2

NOA NORARS Subarra 81.14 338 P 0 42 49.3 -0.3

BR13 Keskin Array S 84.46 313 i i P 0 43 08.4 +1.0

TXAR Lajitas Array 93.42 513 P 0 43 49.8 -0.4

PLCA Paso Flores 150.90 121 PKPbc PKIKP 0 45 28.2 +0.5

ISC 28 04:35:18.2-1.1, 36.96N:44.45E, h10km, ML2.6

ISC 28 04:35:20.1, 36.83N:0.08:44.5E:0.1, h10km, n6, c15077, Iran-Iraq border region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include MAHB Mahabad, IKRK Kirkuk, etc.

ISC 28 04:38:38.0-1.0, 30.57S:0.07:177.5W:0.2, h33km, n13, c150115, mb4.2/7, 3C, Kermadec Islands

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include RAO Raoul Island, URZ Urewera, etc.

ASAR Alice Springs 43.50 267 P 0 46 39.2 +0.7

WRA Warramunga Arr 44.50 272 P 0 46 47.2 +0.6

FITZ Fitzroy Crossi 52.76 270 P 0 47 52.3 +2.2

QSPA South Pole Qui 59.54 180 P 0 48 39.9 +1.9

TROLL Troll, Antarti 77.70 180 i P 0 50 31.0 -0.1

VNA3 Neumayer Olymp 78.11 176 i P 0 50 33.5 +0.3

FINES FINES Array B 145.44 303 PKPbc PKPdf 0 58 11.4 -0.4

NOA NORARS Array B 148.98 352 PKPbc PKIKP 0 58 23.1 -0.1

MDD 28 04:43:29.8-0.7, 35.48N:3.85W, h1km, mb\_Lg2.1/8, Error ellipse: s-maj=6.2km s-min=3.1km az=28.0

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include PALE Paleamas, PALE Paleamas, GOG Mont Gurugu, etc.

JMA 28 05:04:34.7-0.2, 33.7N:2.13\*7E, h437km, MV3.4/31, FAR S OFF TOKAI DISTRICT

ISC 28 05:04:37.9-1.1, 32.60N:137.17E, h396km, 11km, mb3.1/13, mbtmp3.8/16, Error ellipse: s-maj=17.0km s-min=13.8km az=141.0

ISC 28 05:04:37.5-0.7, 32.65N:0.09:137.28E:0.06, h394km, n36, c15734/44, mb3.4/13, Southeast of Honshu

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Residual. Rows include TTO1 TONANKAI O.B.S, TTO2 TONANKAI O.B.S, etc.

YKA Yellowknife Arr 69.28 28 P 0 55 03.1 +0.1

FINES FINES Array B 71.08 332 P 0 55 13.0 -0.8

NVAR Mina Array Bea 80.36 50 P 0 56 07.6 +1.0

PDAR Pinedale Array 83.17 43 P 0 56 21.3 +0.3

TXAR Lajitas Array 95.51 50 P 0 57 20.1 +0.9

LPZA La Paz 151.82 61 PKPbc PKPbc 0 57 47.1 -0.6

ISC 28 05:15:20.4-3.0, 55.03N:84.09E, h0km, mbtmp2.5/2, ML2.3/2, Error ellipse: s-maj=25.3km s-min=14.5km az=3.0, Southwestern Siberia

WRA Warramunga Arr 52.37 183 P 0 58 11.0 -0.6

ILAR Eielson Array 55.00 30 P 0 58 22.2 -0.1

ARCS ARCS Array B 66.89 339 P 0 58 47.6 -0.6

YKA Yellowknife Arr 69.28 28 P 0 55 03.1 +0.1

FINES FINES Array B 71.08 332 P 0 55 13.0 -0.8

NVAR Mina Array Bea 80.36 50 P 0 56 07.6 +1.0

PDAR Pinedale Array 83.17 43 P 0 56 21.3 +0.3

TXAR Lajitas Array 95.51 50 P 0 57 20.1 +0.9

LPZA La Paz 151.82 61 PKPbc PKPbc 0 57 47.1 -0.6

ISC 28 05:16:10.9-0.8, 36.47N:70.29E, h21km, mb4.2/14, Error ellipse: s-maj=9.3km s-min=5.0km az=77.0

BUI 28 05:16:11.6, 36.62N:70.25E, h221km, mb4.4/3, mb4.3/14

NEIC 28 05:16:12.2-1.2, 36.49N:0.07:70.24E:0.10, h210km, 8km, n27, c0611/39, Strait of Gibraltar

MOS 28 05:16:10.9-0.8, 36.47N:70.29E, h21km, mb4.2/14, Error ellipse: s-maj=9.3km s-min=5.0km az=77.0

BUI 28 05:16:11.6, 36.62N:70.25E, h221km, mb4.4/3, mb4.3/14

NEIC 28 05:16:12.2-1.2, 36.49N:0.07:70.24E:0.10, h210km, 8km, n27, c0611/39, Strait of Gibraltar





SJA 28 05:29:50.2-0.7,22:40S:65:92W,h285km,4km,ML4.1,  
MW3.9  
NEIC 28 05:29:52.5-1.4,22:43S:0:08:65:96W,0:10,h256km,4km,  
mb4.2/0,Error ellipse: s-maj=13.2km s-min=11.3km  
baz=78.0

IDC 28 05:29:53.7-1.9,22:25S:65:93W,h265km,20km,mb3.2/3,  
mbtmp3.8/7,Error ellipse: s-maj=25.7km s-min=17.3km  
az=78.0

VAO 28 05:29:54.0-0.7,22:30S:65:92W,h262km,mb3.9  
ISC 28 05:29:51.8-0.5,22:41S:0:04:06:03W,0.05,5251km,n80,  
e123/94,mb3.8/4,CJ, Juyiy Province

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various seismic stations and their parameters.

UCR 28 05:38:03.6-0.9,8:33N:82:79W,h29km,1km,MW4.1,  
Fault plane solution: NP1:phi=303.82000°,delta=70.79000°,  
lambda=84.000°  
UPA 28 05:38:04.5-1.1,8:38N:82:78W,h22km,3km,MW4.1,  
Fault plane solution: NP1:phi=96.00000°,delta1.00000°,  
lambda=62.00000°  
CATAC 28 05:38:05.2-0.7,8:15N:5:83W,h22km,3km,M4.3/2,  
ML4.3/12,Error ellipse: s-maj=9.9km s-min=8.1km az=7.6,  
confirmed

ISC 28 05:38:04.2-0.9,8:38N:0:03:82:80W,0:02,h32km,5km,  
n120,1e131/149,31C-27D,Panama-Costa border  
region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various seismic stations and their parameters.

Table with columns: ALIBA, BLUN, BLUN, BLUN, BLUN, ACON. Lists station names, coordinates, and other parameters.

ASRS 28 06:05:51.0-0.8,54:35N:86:81E,h0km,M2.6,  
The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p +  
CD-ROM, 2021.  
IDC 28 06:05:52.9-3.0,54:34N:86:86E,h0km,mbtmp3.0/2,  
ML2.8/2,Error ellipse: s-maj=25.1km s-min=16.0km  
az=57.0, Southeastern Siberia

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various seismic stations and their parameters.

IDC 28 06:06:30.7-0.9,75:41N:7:20E,h0km,mb3.1/5,  
mbtmp3.5/10,ML3.4/5,MS3.3/24,Error ellipse:  
s-maj=20.8km s-min=13.2km az=62.0  
NAO 28 06:06:32.8-1.5,75:45N:8:79E,ML3.3  
BER 28 06:06:32.3-3.2,75:39N:8:05E,h10km,Mw3.8,  
ML3.3(NAO), Confirmed Earthquake  
FCIAR 28 06:06:39.0,75:85N:8:19E,h10km,m53,  
e258/46,mb3.0/5,MS3.3/18, Greenland Sea

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Lists various seismic stations and their parameters.



Table with columns: Station Name, Elevation (m), Azimuth (LR), and other data. Includes stations like ATAH, TBTO, CZSB, etc.

Table with columns: Station Name, Elevation (m), Azimuth (LR), and other data. Includes stations like N31M, HYT, N30M, etc.

Table with columns: Station Name, Elevation (m), Azimuth (LR), and other data. Includes stations like NEA2, TRF, I23K, etc.







Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KPT Kopyto, TUMD Tumrok D, KAZ Kozirevsk, etc.

Table with columns: Grant County #, Azimuth, Phase ID, Time, Res. Includes stations like GCO2 Grant County #, KAN14 Manchester OK, etc.

Table with columns: Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PANCS Alcalda de, LFRS El Faro, LOMA Loma Larga, etc.

ASRS 28 08:01:52.0±1.2, 54.14N:86.37E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 28 08:01:51.3±2.5, 54.13N:86.72E, h0km, mbmtsp2.9/2, ML2.8/2, Error ellipse: s-maj=28.0km s-min=16.2km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like H46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

IDC 28 08:01:52.0±1.2, 54.14N:86.37E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 28 08:01:51.3±2.5, 54.13N:86.72E, h0km, mbmtsp2.9/2, ML2.8/2, Error ellipse: s-maj=28.0km s-min=16.2km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like WNOCK Wichita Moun, X34A Smith Ranch, etc.

IDC 28 08:01:52.0±1.2, 54.14N:86.37E, h0km, M2.4, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 28 08:01:51.3±2.5, 54.13N:86.72E, h0km, mbmtsp2.9/2, ML2.8/2, Error ellipse: s-maj=28.0km s-min=16.2km az=50.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like R32A Long Quarter, CBKS Cedar Bluff, etc.

IDC 28 08:20:06.1±2.2, 9.89S:113.64E, h0km, mb3.8/4, mbmp3.8/5, ML3.6/1, MS3.7/3, Error ellipse: s-maj=114.7km s-min=24.8km az=48.0

DJA 28 08:20:14.8±0.8, 10.1°S:114.4E, h36km, 18km, M4.1/13, MLv4, 1/13

IDC 28 08:20:12.0±0.9, 9.71S:113.96E:0.04, h31km, n18, ±197/21, mb3.7/4, MS3.7/3, South of Java

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JAGI Jajag, Banyuwa, GUMJI Gumukmas, etc.

IDC 28 08:24:58.0±1.1, 54.06N:86.58E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 28 08:25:01.7±2.8, 54.04N:86.50E, h0km, mbmtsp2.9/2, ML2.7/2, Error ellipse: s-maj=22.6km s-min=13.6km az=56.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like H46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

IDC 28 08:24:58.0±1.1, 54.06N:86.58E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021.

IDC 28 08:25:01.7±2.8, 54.04N:86.50E, h0km, mbmtsp2.9/2, ML2.7/2, Error ellipse: s-maj=22.6km s-min=13.6km az=56.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like R32A Long Quarter, CBKS Cedar Bluff, etc.

IDC 28 08:20:23.4±0.3, 53.77N:86.81E, h0km, mbmtsp2.5/2, ML2.2/2, Error ellipse: s-maj=27.2km s-min=15.8km az=68.0, Southwestern Siberia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like H46RU ZALESOVO INFRA, ZALV Zalesovo Beam, etc.

IDC 28 08:25:29.6±0.2, 9.65S:138.68E, h0km, mb3.6/2, mbmp3.4/4, ML3.3/2, Error ellipse: s-maj=109.7km s-min=17.4km az=149.0

DJA 28 08:25:30.0±0.9, 2.5°S:133.9E, h20km±10km, M3.5/5, MLv3, 5/5

IDC 28 08:25:29.4±1.0, 2.55S:138.54E:0.06, h32km, n9, ±137/9, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like SMPI Sarmi, GENI Geniem, etc.

IDC 28 08:25:29.6±0.2, 9.65S:138.68E, h0km, mb3.6/2, mbmp3.4/4, ML3.3/2, Error ellipse: s-maj=109.7km s-min=17.4km az=149.0

DJA 28 08:25:30.0±0.9, 2.5°S:133.9E, h20km±10km, M3.5/5, MLv3, 5/5

IDC 28 08:25:29.4±1.0, 2.55S:138.54E:0.06, h32km, n9, ±137/9, Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CHOHN Orocuina, CHOHN Orocuina, etc.

NEIC 28 08:20:37.7±0.9, 36.034N:0.009-98.10W:0.01, h4km±3km, mb, Lg2.3/4, ML2.3/31, ML2.5/60, Error ellipse: s-maj=2.3km s-min=1.1km az=151.0

NEIC 28 08:20:37.6±1.2, 36.030N:0.010-98.09W:0.01, h6km±4km, Error ellipse: s-maj=1.5km s-min=1.2km az=197.0, Oklahoma

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CROK Carrier, BCOK Bluff Creek, etc.

IDC 28 08:30:02.6±2.0, 14.04N:88.03W, h0km, mb3.1/3, mbmp3.2/4, ML3.6/1, MS3.5/1, Error ellipse: s-maj=154.4km s-min=16.3km az=54.0

SNET 28 08:30:06.5±1.1, 13.07N:89.24W, h53km, ML4.0, CGC 28 08:30:07.6±1.1, 13.14N:89.24W, h56km±8km, MD4.2, ML3.9

CATAC 28 08:30:07.3±0.2, 13.2°N:89.24W, h31km±2km, M4.2/54, MLv4, 2/54, Error ellipse: s-maj=3.8km s-min=1.8km az=33.2, confirmed

IDC 28 08:30:06.8±1.0, 13.06N:0.04-89.21W:0.03, h51km±8km, n17, ±98/88/174, mb3.0/3, 4D, El Salvador

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LALI Alcalda de L, LALI Alcalda de L, etc.

IDC 28 08:30:02.6±2.0, 14.04N:88.03W, h0km, mb3.1/3, mbmp3.2/4, ML3.6/1, MS3.5/1, Error ellipse: s-maj=154.4km s-min=16.3km az=54.0

SNET 28 08:30:06.5±1.1, 13.07N:89.24W, h53km, ML4.0, CGC 28 08:30:07.6±1.1, 13.14N:89.24W, h56km±8km, MD4.2, ML3.9

CATAC 28 08:30:07.3±0.2, 13.2°N:89.24W, h31km±2km, M4.2/54, MLv4, 2/54, Error ellipse: s-maj=3.8km s-min=1.8km az=33.2, confirmed

IDC 28 08:30:06.8±1.0, 13.06N:0.04-89.21W:0.03, h51km±8km, n17, ±98/88/174, mb3.0/3, 4D, El Salvador

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PANCS Alcalda de, PANCS Alcalda de, etc.

28d 8h

Table with columns: MATN, NANN, BOAB, etc. and rows listing station names, coordinates, and other technical details.

VAO 28 08:30:39.8,0.3,29.29S;70.78W,h45km,2km,mb5.0

SJA 28 08:30:41.3,0.7,29.37S;71.09W,h81km,5km,ML5.0

MW4.9

GUC 28 08:30:41.8,0.8,29.36S;70.84W,h73km,3km,ML5.1

IDC 28 08:30:42.9,0.4,29.32S;70.86W,h84km,3km,mb4.4/18,

NEIC 28 08:30:42.8,1.5,29.36S;71.02W,0.0,8,h78km,3km,

NEIC 28 08:30:43.29,38S;71.14W,h80km,Moment Tensor

NEIC 28 08:30:43.29,40S;70.96W,h81km

NEIC 28 08:30:43.29,38S;70.91W,h80km

NEIC 28 08:30:44.8,0.3,29.41S;71.13W,0.0,3,h96km,3km,

ISC 28 08:30:42.1,0.3,29.35S;70.99W,0.0,3,h81km,2km,

Code Station Name A° AZ° Phase ID Time Res

LCO Las Campanas 0.42 37 Sn ISC 08 30 56.3 +0.7

LCO Las Campanas 0.42 37 I/P Sn 08 30 55.5 0.0

LCO Las Campanas 0.42 37 eP Sn 08 30 55.2 +0.4

CO05 La Serena 0.61 201 I/P Sn 08 31 08.5 +0.6

CO05 La Serena 0.61 201 I/S Sn 08 31 08.6 +0.6

CO04 Tololo Observa 0.84 169 Sn 08 30 59.9 +0.3

CO04 Tololo Observa 0.84 169 I/P Sn 08 31 13.3 +0.6

CO04 Tololo Observa 0.84 169 eS Sn 08 31 13.7 +1.0

CO01 Juntas del Tor 1.00 129 Sn 08 31 01.7 +0.3

CO01 Juntas del Tor 1.00 129 I/P Sn 08 31 01.6 +0.1

CO01 Juntas del Tor 1.00 129 eS Sn 08 31 15.6 +0.3

CO01 Juntas del Tor 1.00 129 IAML Sn 08 31 01.5 +0.1

AC04 Llanos de Chal 1.14 356 Sn 08 31 04.0 +1.0

AC04 Llanos de Chal 1.14 356 I/S Sn 08 31 03.9 +1.0

AC04 Llanos de Chal 1.14 356 eS Sn 08 31 20.1 +1.6

AC04 Llanos de Chal 1.14 356 IAML Sn 08 31 22.7

CO06 Fray Jorge 1.44 203 Sn 08 31 06.8 +0.1

CO06 Fray Jorge 1.44 203 I/P Sn 08 31 25.1 -0.1

CO06 Fray Jorge 1.44 203 I/S Sn 08 31 06.7 +0.1

CO06 Fray Jorge 1.44 203 eS Sn 08 31 25.4 +0.2

CO03 El Pedregal 1.51 170 Sn 08 31 08.0 +0.3

CO03 El Pedregal 1.51 170 I/P Sn 08 31 08.0 +0.3

CO03 El Pedregal 1.51 170 I/S Sn 08 31 27.1 +0.1

CO03 El Pedregal 1.51 170 eS Sn 08 31 30.3

CO03 El Pedregal 1.51 170 Sn 08 31 07.9 +0.3

AR0D Rodec 1.55 122 eP Sn 08 31 10.2 +1.9

ACDV Cuesta del Vie 1.82 117 eP Sn 08 31 13.4 +1.7

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RTLL ZON Zonda 2.96 138 eS Sn 08 31 55.5 -5.4

ZON Zonda 2.96 138 eP Sn 08 31 28.5 +1.5

ZON Zonda 2.96 138 eS Sn 08 31 28.5 +1.5

AC02 Maricunga 2.99 34 eP Sn 08 31 28.5 +0.7

AC02 Maricunga 2.99 34 I/P Sn 08 31 28.5 +0.7

AC02 Maricunga 2.99 34 eS Sn 08 31 28.5 +0.7

AC02 Maricunga 2.99 34 eP Sn 08 31 28.3 +0.4

AC02 Maricunga 2.99 34 eS Sn 08 31 28.3 +0.4

AC02 Maricunga 2.99 34 eP Sn 08 31 28.3 +0.4

SJA San Juan 2.02 137 eS Sn 08 31 29.3 +1.6

SJA San Juan 2.02 137 eS Sn 08 31 56.4 -6.5

SJA San Juan 2.02 137 IAML Sn 08 32 11.7

AC01 Pan de Azucar 3.21 6 Sn 08 31 29.2 -1.0

AC01 Pan de Azucar 3.21 6 I/P Sn 08 31 29.2 -1.0

AC01 Pan de Azucar 3.21 6 eS Sn 08 32 03.8 -3.6

AC01 Pan de Azucar 3.21 6 eS Sn 08 31 56.4 -1.1

AC01 Pan de Azucar 3.21 6 eS Sn 08 32 38.4

VA06 Cataipico 3.21 185 I/P Sn 08 31 30.1 -0.2

VA06 Cataipico 3.21 185 I/S Sn 08 31 29.5 -0.4

CFA Coronel Fontan 3.27 134 Sn 08 31 31.9 +0.8

CFA Coronel Fontan 3.27 134 eS Sn 08 31 31.9 +0.8

CFA Coronel Fontan 3.27 134 eS Sn 08 31 31.9 +0.8

AVFE Valle Fertil 3.33 114 eS Sn 08 31 33.0 +1.1

AVFE Valle Fertil 3.33 114 eS Sn 08 32 11.5 +1.0

AVFE Valle Fertil 3.33 114 IAML Sn 08 32 12.3

VA03 San Esteban 3.43 174 Sn 08 31 34.0 +0.6

VA03 San Esteban 3.43 174 I/P Sn 08 31 33.9 +0.6

VA03 San Esteban 3.43 174 I/S Sn 08 32 13.5 +0.6

VA03 San Esteban 3.43 174 eS Sn 08 31 33.9 +0.6

VA03 San Esteban 3.43 174 IAML Sn 08 32 37.5

ACLCL CERRO LA CRUZ 3.52 92 eP Sn 08 31 35.5 +0.8

ACLCL CERRO LA CRUZ 3.52 92 eS Sn 08 32 17.4 +2.1

ACLCL CERRO LA CRUZ 3.52 92 IAML Sn 08 32 22.8

ROCH EI Roble 3.61 180 I/P Sn 08 31 35.5 -0.5

VA01 Torpederas 3.71 189 Sn 08 31 35.7 +1.3

VA01 Torpederas 3.71 189 I/P Sn 08 31 35.9 -1.2

VA01 Torpederas 3.71 189 I/S Sn 08 32 16.8 -2.8

VA01 Torpederas 3.71 189 eS Sn 08 31 35.5 -1.5

VA01 Torpederas 3.71 189 IAML Sn 08 32 48.2

ASAL Salagasta 3.72 151 eS Sn 08 31 39.5 +2.2

ASAL Salagasta 3.72 151 eS Sn 08 32 24.0 +3.9

PEL Peidehue 3.79 176 Sn 08 31 38.5 +0.2

PEL Peidehue 3.79 176 I/P Sn 08 31 38.5 +0.2

MT02 Curacav 3.90 182 Sn 08 31 39.3 -0.3

MT02 Curacav 3.90 182 I/P Sn 08 31 38.8 -0.9

MT02 Curacav 3.90 182 eP Sn 08 31 38.6 -1.1

MT02 Curacav 3.90 182 IAML Sn 08 32 26.6

MT10 Hacienda Santa 3.93 175 I/P Sn 08 31 40.5 +0.3

1810

G009 Cerro Castillo 21.92 182 P P 08 35 29.4 +0.8

PDRB Porto dos Gac 22.09 40 eP P 08 35 29.4 -1.2

MG05 Puerto Natales 23.24 182 P P 08 35 33.3 +0.4

VAO Valinhos 22.44 79 P Iamb Iamb 08 35 33.3 -1.3

VAO Valinhos 22.44 79 eP P 08 35 33.3 -2.2

CLDB Colider 23.22 41 eP P 08 35 39.3 -2.9

MG04 Isla Risco 23.49 181 P P 08 35 44.7 +0.2

IPNB Ipaneri, GO 23.68 67 eP P 08 35 43.5 -3.1

MG03 Patos de Minas 24.48 179 P P 08 35 54.2 +0.9

PMNB Patos de Minas 24.83 70 P P 08 35 55.6 -1.4

TBTG Tabatinga, AM 25.05 3 P P 08 35 59.5 +0.7

BDFB Brasilia 25.16 62 P Iamb Iamb 08 35 59.6 -0.5

BDFB Brasilia 25.16 62 P Iamb Iamb 08 36 20.7

BDFB Brasilia 25.16 62 P Iamb Iamb 08 35 59.0 -1.1

BDFB Brasilia 25.16 62 P Iamb Iamb 08 46 10.7

SNDB Serra Nova Dou 25.19 51 eP P 08 35 59.1 -1.1

USHA Ushuaia 25.53 177 P P 08 36 03.4 +0.5

USHA Ushuaia 25.53 177 P P 08 36 03.4 +0.5

TEFE Tefe 26.39 14 eP P 08 36 11.8 +0.8

NPGB Novo Progresso 26.63 37 eP P 08 36 12.1 -1.0

DJAM Diamantina, MG 27.23 72 eP P 08 36 18.6 -0.2

MACA Manacapuru-AM 27.82 22 eP P 08 36 23.8 0.0

JANB Januaria 28.41 66 eP P 08 36 27.8 -1.3

ITTB Itaituba 28.74 33 eP P 08 36 31.1 -0.9

SJMB Sao Joao De Ma 29.13 75 eP P 08 36 34.5 -1.0

SMTB Santa Maria do 29.95 52 eP P 08 36 52.0 -0.7

OTAV Otavio 30.27 34 eP P 08 36 47.4 +1.3

CMCO Camacan, BA 32.14 71 eP P 08 37 00.2 -1.8

EIFS Eirosal 34.14 354 P P 08 37 02.2 +0.4

ROSC Rosário 35.16 22 LR LR 08 50 28.0

ESPZ Base Esperanza 35.24 169 P P 08 37 28.2 -0.1

PDMA Palmer Station 37.51 175 LR LR 08 51 45.3

SDV Santo Domingo 38.01 P P 08 57 51.4 -1.2

SDV Santo Domingo 38.01 P P 08 57 51.4 -1.2

MDP Montagnes des 38.52 30 LR LR 08 55 12.6

SMAI San Martin Ant 38.88 178 P Iamb Iamb 08 37 59.7 +0.6

SMAI San Martin Ant 38.88 178 P Iamb Iamb 08 38 02.4

PCRV Puerto La Cruz 39.77 10 LR LR 08 55 32.8

RCBR Riachuelo 40.54 62 LR LR 08 54 45.5

JTS Las Juntas de 41.65 339 LR LR 08 54 26.8

PDPR Patillas Dam, 47.33 6 P Iamb Iamb 08 39 09.4 +1.6

PDPR Patillas Dam, 47.33 6 P Iamb Iamb 08 39 36.5

SJG San Juan 47.41 6 LR LR 09 00 04.7

CMIG Matias Romero 51.61 330 LR LR 08 55 16.9

TEIG Tepich 52.03 339 P P 08 39 44.8 +1.4

TEIG Tepich 52.03 339 P P 08 39 44.5 +1.1

TEIG Tepich 52.03 339 pP 08 40 04.8 +0.8

TEIG Tepich 52.03 339 sP 08 40 13.2 +0.1

2019 JUN

CA01 Camarioca 53.05 348 Iamb Iamb 08 40 32.5

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CA01 Camarioca 53.05 348 Iamb Iamb 08 40 32.5

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like DBIC Dimbokro, DBIC comp-Z,1.1nm,0.7s, and others.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like JNW Jan Mayen West, JMW Jan Mayen, and others.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like AJO Ajban, AJN Ajban, and others.

ISC 28 08:50:23.6,0.9,72.07N,0.32W, h0km, mb3.4/7, mbtmp3.5/12, ML3.0/5, MS3.1/6, Error ellipse: s-maj=25.4km s-min=15.0km az=60.0

ISC 28 08:50:24.3,0.7,72.06N,0.08,0.33W, h10km, n29, 0.177/27, mb3.4/7, MS3.1/3, Jan Mayen Island region

ISC 28 08:50:25.4,4.2,72.127N,0.62W, h10km, Mw4.1, Confirmed Earthquake

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes stations like JNE Jan Mayen East, JNE comp-Z, 2.6, 251, and others.



Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like SONGMO Songoing Array, H11N2 WAKE ISLAND, H11N1 WAKE ISLAND, H11N3 WAKE ISLAND, H11S1 WAKE ISLAND, H11S3 WAKE ISLAND, H11S2 WAKE ISLAND, ZALV Zalesovo Beam, NR1K Noril'sk, L16K Owhat River, H17K Granite Mounta, E18K Tukpahlearkir, C18K Utukok River, M16K Timber Creek, J17K VABM Dome, K17K Iditarod, G18K Tagagawik, H18K Honhosha River, C19K Lookout Ridge, M17K Holitna River, D19K Kuna River, L18K Granite Mounta, J18K Innoko River, G19K Purcell Mountain, H19K Roundabout Mou, J19K Poorman, D20K Etivluk River, B20K Mesade River, WYLDL Lahad Datu, MKAR Makanchi Array, MKAR Makanchi Array, MKAR Makanchi Array, CAST Castle Rocks, E22K Anaktuvuk Pass, KURBB Kurchatov Arra, KTH Kantishna Hill, MLY Yukon River, H23K Yukon River, I23K Minto, Yukon-K, NEA2 Nenana, RND Reindeer, H24K Noodor Dome, D25K Kavik River, IL31 Eielson Array, ILAR Porcupine Dome, FID Port Fidalgo, BMAR Burnt Mountain, F26K Sheerjet, G26K Porcupine River, SCRK Sand Creek, DOT Dot Lake, J26L Joseph Creek, KDJ Kajisay, E27K Coleen River, H27K Steamboat Moun, K27K Chicken, BOOM Boomsyoke ush, BVAR Borovoye Arra, BCAR Beaver Creek A, I28M Miner Creek, E29M Blow River, H29M Whitestone, EPYK Eagle Plains, F30M Barrier River, I30M Mount Dempster, ARSB Arslanbob, H31M Peel River, KK31 Karatay Array, KKAR Karatay Array, A36M Sachs Harbour, ARTI Arti.

Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like AB31 Akbulak array, ABKAR Akbulak array, EUNU Eureka, YKA Yellowknife Arr, WB0 Warramunga Arr, WR0 Warramunga Arr, WRA Warramunga Arr, FINES FINESS Array B, FINES FINESS Array B, ASAR Alice Springs, DZM Mont Dzumac, NC40S NORARS Array S, HFS Hagfors, NB201 NORARS Array S, NOA NORARS Array S, UOSS Minazif, AKASO Malin Array Be, BOZ Bozeman (W), PDAR Pinedale Array, BUR08 Bucovina Ar. S, BURAR Bucovina Array, BRTR Keskin Arra, FUORN Otenpass-Fuorn, DAVOX Davos/Dischmat, QSPA South Pole Qui, SNA4 Sanae, SNA5 Sanae, PB11 IROC Station P, H03N2 Juan Fernandez, H03N3 Juan Fernandez, H03N1 Juan Fernandez, GO04 Tololo Observa, IDC 28 09:20:46.9:3.3, 53:56N:87:72E, h0km, mbtmp2.9/2, ML2.6/2, Error ellipse: s-maj=31.1km s-min=16.7km az=50.0, ASRS 28 09:20:44.0:1.0, 53:56N:87:72E, h0km, M2.7, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia, I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, MKAR Makanchi Array, IDC 28 09:22:26.6:5.0, 53:86N:89:82E, h0km, mbtmp3.1/3, ML2.7/3, Error ellipse: s-maj=52.7km s-min=24.9km az=43.0, ASRS 28 09:22:18.0:2.2, 54:02N:90:25E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia, I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array, IDC 28 09:25:24.1:3.3, 54:48N:86:93E, h0km, mbtmp2.8/2, ML2.3/2, Error ellipse: s-maj=29.3km s-min=20.1km az=52.0, ASRS 28 09:25:23.0:1.2, 54:38N:86:80E, h0km, M2.6, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., Southwestern Siberia, I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array, SJA 28 09:29:03.4:0.7, 29:35S:71:05W, h85km, 3km, ML3.4, MW3.5, GUC 28 09:29:04.0:4.0, 29:39S:70:88W, h77km, 4km, ML3.8, ISC 28 09:29:05.0:1.2, 29:35S:70:02.7:104W, 0:05, h83km, 7km, n42, r131772, 7C-1D, Near coast of central Chile, LCO Las Campanas, LCO Las Campanas, LCO Las Campanas, CO05 La Serena, CO05 La Serena, GO04 Tololo Observa, GO04 Tololo Observa, GO04 Tololo Observa.

Table with columns: Station Name, Frequency, Power, Mode, and Time. Includes stations like GO04 Tololo Observa, GO04 Juntas del Tor, GO01 Juntas del Tor, GO01 Juntas del Tor, AC04 Llanos de Chal, AC04 Llanos de Chal, AC04 Llanos de Chal, GO06 Fray Jorge, GO06 Fray Jorge, GO03 El Pedregal, GO03 El Pedregal, GO03 El Pedregal, AROD Rodeo, AROD Rodeo, CO02 Combarbal, CO02 Combarbal, CO02 Combarbal, BOZ Bozeman (W), PDAR Pinedale Array, BUR08 Bucovina Ar. S, BURAR Bucovina Array, BRTR Keskin Arra, FUORN Otenpass-Fuorn, DAVOX Davos/Dischmat, QSPA South Pole Qui, SNA4 Sanae, SNA5 Sanae, PB11 IROC Station P, H03N2 Juan Fernandez, H03N3 Juan Fernandez, H03N1 Juan Fernandez, GO04 Tololo Observa, GO04 Tololo Observa, GO04 Tololo Observa, AVFE Valle Fertil, AVFE Valle Fertil, AVFE Valle Fertil, VA03 San Esteban, VA03 San Esteban, VA03 San Esteban, ACAL CERRO LA CRUZ, ASAL Salagasta, ASAL Salagasta, MT02 Curacav, MT02 Curacav, MT05 Renca, MT05 Renca, MT05 PUNTA DE LOS L, APPL PUNTA DE LOS L, APPL PUNTA DE LOS L, MT04 Ro Olivares, MT04 Ro Olivares, MT04 Ro Olivares, MT08 Bocatomara, MT08 Bocatomara, ACHE Chepes, ACHE Chepes, GO02 Mina Guanaco, GO02 Mina Guanaco, ACAN Cantantal, ACAN Cantantal, MT01 Popeta, MT01 Popeta, MT01 Popeta, LMEL Las Melosas, LMEL Las Melosas, CYA Choya, BO01 Tunca, BO01 Tunca, IDC 28 09:29:27.8:3.1, 53:73N:86:78E, h0km, mbtmp2.7/2, ML2.5/2, Error ellipse: s-maj=28.2km s-min=15.7km az=63.0, Southwestern Siberia, I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array, ASRS 28 09:29:51.0:0.7, 55:70N:86:18E, h0km, M2.8, The earthquakes of Russia in 2019. Obninsk, GS RAS, 214 p + CD-ROM, 2021., IDC 28 09:29:58.1:2.9, 55:47N:86:28E, h0km, mbtmp3.1/3, ML2.7/3, Error ellipse: s-maj=26.8km s-min=19.6km az=71.0, Southwestern Siberia, I46RU ZALESOVO INFRA, ZALV Zalesovo Beam, ZALV Zalesovo Beam, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KURBB Kurchatov Arra, MKAR Makanchi Array, MKAR Makanchi Array, MKAR Makanchi Array.







Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COEG Centro de Oper, JAYA Jayaque - finc, ALJI Alcaldia de J, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like RAR Rarotonga, URZ Ureweira, ARMA Armadale, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KDJ Kajisay, MKAR Makanchi Array, USA0B Usuriyark Array, etc.

RSNC 28 10:17:42.7-0.0, 10°1'N 177°4'W, h38km, 5km, M2.7, mb4.3

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like ARGC Ariguaní, Magd, SJCC San Jacinto, SMRC Santa Marta, etc.

WRR Warramunga Arr 46.62 263 P Iamb Iamb

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like WBO Warramunga Arr, WRA Warramunga Arr, WRS Warramunga Arr, etc.

ZAAO Zalesovo Array 62.12 347 P Iamb Iamb

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like ZALV Zalesovo Beam, BVAR Borovoye Array, AB31 Akbulak array, etc.

UPA 28 10:46:23.7-1.1, 8°35N-82°84W, h41km, 13km, ML3.7

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like LMNES Limones, LESP3 La Esperanza, etc.

SNAA Sanae 86.33 178 P Iamb Iamb

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AKASG Malin Array B, BRTR Keskin Array B, etc.

AFAD 28 10:55:01.9, 40°05'N-33°23'E, h15km, 1km, ML3.5

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like GOKD Ankara-Kalecik, GOKD Ankara, etc.

ISC 28 10:46:19.7-1.3, 8°18'N-0°06'-83°01'W, 0°03, h10km, n62, o568/65, 4D, Costa Rica

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like ALCO Alturas Coton, BOTLY Boquete Panama, BQSF3 Alto Boquete, etc.

IDL 28 10:52:30.3-1.0, 6°31'S-103°70'E, h0km, mb4.1/12

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like LWLI Liwa, KLI Kotabumi, MDSI Mauna Dua, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h8km, ML3.5/43

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like ANTO Ankara, ANTO Ankara, LOD Lodum, etc.

ISC 28 10:52:37.1-0.7, 6°31'S-103°78'E, 0°08, h48km, n58, o187/49, mb4.3/20, Southwest of Sumatara

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like UGM Wanagana, JAGI Jajag, KAPI Kappang, etc.

WBO Warramunga Arr 32.61 117 P Iamb Iamb

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, WRS Warramunga Arr, WRA Warramunga Arr, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KESK Krikale-Ke, KESK Krikale-Ke, BBAL Bala, etc.

ISC 28 10:47:02.6-0.9, 22°27'S-175°65'W, h0km, mb4.07, s-min=24.4km, s-15.10

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like NIUE Niue, NIUE Niue, MSVF Nonsavu, etc.

WRR Warramunga Arr 32.77 117 P Iamb Iamb

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like AS31 Alice Springs, ASAR Alice Springs, EVN Everest, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, etc.

ISC 28 10:47:03.3-1.9, 21°97'S-0°09'-175°4'W, 0°1, h10km, 1km, mb4.6/11, Error ellipse: s-maj=20.0km s-min=14.6km az=286.0

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

ISC 28 10:47:03.1-0.6, 22°15'S-175°43'W, 0°08, h10km, n33, o1847/29, mb4.4/12, Tonga Islands region

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SUNG urum-Sungur, SUNG urum-Sungur, AKPI Kirişhir/Akpin, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like CORM Corum, CORM Corum, CORM Corum, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COAL Corum-Ala, COAL Corum-Ala, COAL Corum-Ala, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KAGI orum-Kargi, KAGI orum-Kargi, KAGI orum-Kargi, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SVRH Sivrihisar-ESK, SVRH Sivrihisar-ESK, SVRH Sivrihisar-ESK, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COAL Corum-Ala, COAL Corum-Ala, COAL Corum-Ala, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COAL Corum-Ala, COAL Corum-Ala, COAL Corum-Ala, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COAL Corum-Ala, COAL Corum-Ala, COAL Corum-Ala, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, KIRK Kirişhir-Merke, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.

ISC 28 10:50:02.1, 40°07'N-33°23'E, h35km, mb2.5/2, Central Turkey

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like COAL Corum-Ala, COAL Corum-Ala, COAL Corum-Ala, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like STKA Stephens Creek, STKA Stephens Creek, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time, Res. Includes stations like SKRS Korea Array, SKRS Korea Array, etc.



Table with columns: IAT, Name, Time, Res, P, Pn, Az, El, Az, El, Res, P, Pn. Includes entries like Ana Tenorio, MDTJ Dunham, COHC Cochancay, etc.

Table with columns: IAT, Name, Time, Res, P, Pn, Az, El, Az, El, Res, P, Pn. Includes entries like Maricunga, Mohawk Valley, Wickenburg, etc.

Table with columns: IAT, Name, Time, Res, P, Pn, Az, El, Az, El, Res, P, Pn. Includes entries like Vranov, Munteles Rossu, Malin Aray, etc.



Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like SPITS Spitsbergen Ar, GERES GERES Array B, VRAC Vranov, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like PETK comp=Z,1.3nm,0.3s, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like D25K Kavik River, E25K Arctic Village, etc.

ISN 28 11:20:05.7, 2.4, 34.566N, 46.09E, h10km, ML2.9
TEH 28 11:20:05.8, 34.574N, 46.07E, h10km, 161km
ISC 28 11:20:05.8, 1, 34.559N, 0.07, 46.06E, 0.05, h10km, n5,

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like IDHR Dehrash, IDHR Gilan-e-Gharb, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like AKUT Akutan, YAK Yakutsk, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like H11N2 WAKE ISLAND Hy, H11N3 WAKE ISLAND Hy, etc.

IDC 28 11:30:21.4, 0.7, 55.88N, 162.77E, h0km, mb3.8/16,
mbmp3.8/17, ML2.7/2, MS3.07, Error ellipse:
s-maj=21.9km s-min=14.0km az=147.0
MOS 28 11:30:22.1, 0.8, 55.49N, 163.34E, h13km, mb4.0/9, Error
ellipse: s-maj=7.1km s-min=5.6km az=76.5
NEIC 28 11:30:23.4, 1.2, 55.0N, 0.2, 163.92E, 0.0, h0km, 2km,

comp=Z, 2.0nm, 0.3s, baz=62, slow=1.9, SNR=3.0
LR
TIKI Tiksi 21.76 331 P pmax 11 35 18.0 +4.3

SKHL 28 11:38:37.5, 0.8, 43.30N, 138.00E, h238km, 11km, mb5.0/5,
mb4.6/4, ms4.7/5, ms4.5/6
JMA 28 11:38:39.0, 0.4, 43.3N, 13.8E, h275km, 3km, MV2.9/30,
EASTERN SEA OF JAPAN
IDC 28 11:38:39.0, 0.8, 43.25N, 138.06E, h259km, 8km, mb3.2/13,
mbmp3.8/19, Error ellipse: s-maj=12.6km s-min=9.9km
az=143.0

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like IDHR Dehrash, IDHR Gilan-e-Gharb, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like F17K Balakrishnan, O15K Ungulthiuk R, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, CMAR Obninsk, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTB Krutoberegovo, KBTB Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like F17K Balakrishnan, O15K Ungulthiuk R, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, CMAR Obninsk, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTB Krutoberegovo, KBTB Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like F17K Balakrishnan, O15K Ungulthiuk R, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, CMAR Obninsk, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like KBTB Krutoberegovo, KBTB Krutoberegovo, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like F17K Balakrishnan, O15K Ungulthiuk R, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res, ISC. Includes stations like CMAR Chiang Mai Arr, CMAR Obninsk, etc.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like IPOC Station P, Gangwa, Dimbokro, Torodi Ar. Bea, Whitehorse, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like FNA, OHR, KPRO, Kipourio, KZAN, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ABTA, LESA, WTTA, WATA, FETA, etc.

ICD 28 12:52:09.84.2.6:51'S:129°13'E, h199km, 43km, mb3.0/7, mbmp4.0/11, Error ellipse: s-maj=44.9km s-min=20.0km az=61.0

ISC 28 12:52:09.2.0.8, 6:68S:0:07'-129°2'E:0:1', h200km, n11, r190/14, mb3.67, Banda Sea

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BATI, FITZ, WRA, WRA, ASAR, etc.

CATAC 28 13:07:47.8:0.9, 8°N, 6°8'3W, h3km, 3km, M4.0/13, MLV4.0/13, Error ellipse: s-maj=12.7km s-min=7.8km az=16.8, confirmed

UCR 28 13:07:50.4:1.1, 8:34N, 82:83W, h29km, 2km, MW3.8 IPA, 28 13:07:50.3:0.7, 8:33N, 82:84W, h37km, 5km, MW4.5

ISC 28 13:07:50.9:1.0, 8:37N, 0:04, 82:83W, 0:03, h30km, 7km, n84, r128/93, 1-C-2D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like LESP3, LPPC, CDITO, etc.

NEIC 28 12:43:35.5:0.8, 31°10'S:0:08'-176°3W:0:2', h10km, 2km, mb4.3/7, Error ellipse: s-maj=37.0km s-min=11.3km az=75.0

ICD 28 12:43:38.0:1.1, 31°16'S:177°28'W, h0km, mb3.9/6, mbmp3.9/6, Error ellipse: s-maj=30.4km s-min=26.6km az=77.0

ISC 28 12:43:37.4:1.1, 31°18'S:0:06'-177°3W:0:2', h10km, n18, r158/20, mb4.1/11, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like RAO, URZ, STKA, AS31, ASAR, WR8, WRAB, WRA, WBO, VNDA, QSPA, SNA, NVAR, FINES, etc.

TIR 28 12:44:26.8, 40°44'N:20°82'E, h1km, 2km, M3.6/5 SKO 28 12:44:28.5, 40°46'N:20°89'E, h19km, ML3.0, PDG 28 12:44:28.3, 40°41'N:20°89'E, h9km, 2km, ML3.4/11, Error ellipse: s-maj=2.4km s-min=2.9km az=0.0

ATH 28 12:44:28.7, 40°51'N:20°86'E, h5km, 1km, ML3.5/17, KOME Manual Solution by S. Liakopoulos First location: 2019/06/28 12:45:21, This location: 2020/10/27 09:45:56 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 0 km; Longitude uncertainty: 1 km

THE 28 12:44:28.7, 40°N:2°E, h0km, 1km, M3.2/14, MLh3.2/14

BE0 28 12:44:29.1, 30.40'48"N:20°84'E, h5km, 3km, ML3.0/14 ISC 28 12:44:28.7:0.9, 40°48'N:0:01'-20°86'E:0:02', h9km, 6km, n114, r134/22, 8C-4D, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBN, NEST, PENT, FNA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SKO, THE, THE, THE, THE, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like FORC Fortuna, VACR Volcan Arenal, etc.

IDC 28 13:21:52.3:0.5,2:54S,121:76E,h0km,mb4.3/16, mbtmp4.3/20,ML2.4,M3.9,411, Error ellipse: s-maj=22.3km s-min=11.2km az=74.0

GCMT 28 13:21:54.8:0.3,2:60S;0.02:121:65E;0:02:h12km, MW4.7/77, Moment Tensor Solution, s4,c5; s77,c99; Duration: 0 Moment tensor: Scale 1012N; Mr0.67±.07; Mw1.19±.06; Mww-1.8±.06; Mw0.12±.19; Mw0.31±.06; Mw0.45±.20; Best double couple: Mo1.61500±.016 NP1.9±129.00000°,δ72.00000°,λ5.00000°. NP2: 9±38.00000°,δ85.00000°,λ162.00000°. Principal axes: T 1.2680, P16.0000, Azm352.0000; P -1.9620, P19.0000, Azm87.0000; Nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

NEIC 28 13:21:54.8:1.3,2:60S;0:05:121:77E;0:06,h10km,1km, mb4.7/31 Error ellipse: s-maj=11.1km s-min=8.7km az=112.0

DJA 28 13:21:55.6:0.8,3:5S;1:12:2E, h17km,7km, M4.8/39, mb5.0/39, mb5.3/13, MLV4.9/31, mb(M)4.8/13, MwMwp4.5/3, MwP4.9/3

ISC 28 13:21:54.3:0.4,2:62S;0:05:121:73E;0:05,h10km,n145, s=124/119,mb4.6/38,MS3.9/37,LS,Sulawesi

Main station list table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like KDI Kendari, APSI Ampana, LUWI Luwuk, etc.

Continuation of station list table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like BWSI Waingapu, MSAL Masoli, PLAI Plampang, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like MNSI Mandailing Nat, RPSI Rantau Prapat, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like GSI Gunungisiti, GSI Gunungisiti, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like SRIT Nakonisratiman, TWG Pinlang, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like JNU Nakatsue, XAN Xi'an, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like PALK Pallekele, EVN Everest, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like KLR Kul'dur, HEH Heihe, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like MK31 Makanchi Array, MKAR Makanchi Array, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like VNSA, BELG Belogomoye, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like QSPA South Pole Qui, H17K Kodiak Island, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like BSZL Lusaka, BOSA Boshu, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like MTN Manton Dam, SBUM Sibiu, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like WRA Warramunga Arr, WRB Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like VNSA Vanda, QSPA South Pole Qui, etc.

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like MXZ Matakaoa Point, WSRZ White Island, etc.

IDC 28 13:35:19.9:1.3,2:56S;140:15E,h0km,mb3.2/3, mbtmp3.2/4,ML2.8,1, Error ellipse: s-maj=27.8km s-min=10.3km az=176.0, Near north coast of Irian Jaya

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like JAY Jayapura, WRA Warramunga Arr, etc.

NOU 28 13:40:03.7:35:59S;178:85E,h302km,mb3.7/7, Off E. Coast of Inland, N.Z.

WEL 28 13:40:20.7:1.1,36:59S;177:8E;1:0,h188km,10km, M3.3/20,ML2.48,MLV3.3/20, Error ellipse: s-maj=15.5km s-min=8.1km az=49.1, confirmed

ISC 28 13:40:16.5:3.36:3S;0:1x178:1E, h222km,17km, n39,+136/46, Off east coast of North Island

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, ISC, Time, Res, h m s ISC. Includes stations like MXZ Matakaoa Point, WSRZ White Island, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PUZ, TWGZ, KUZ, KAUOTUNU, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KRKR, KLY, KMN, KMY, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KZN, NAS, MSVA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like S, Sb, Pn, etc.

IDC 28 13:58:34.1±0.6, 62.81N, 34.36E, h0km, mbtmp2.8/2, ML1.8/2, Error ellipse: s-maj=48.3km s-min=15.9km az=135.0, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like FINES, ARCES, I37NO, etc.

ATH 28 14:36:00.5, 37.44N, 20.47E, h14km, 1km, ML2.5/2, Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like H11N2, H11N3, H11N1, etc.

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like TETR, THL, TYRN, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like S, Sb, Pn, etc.

SOME 28 14:30:08.1, 40.35N, 77.32E, h15km, NNC 28 14:30:09.4±1.1, 40.44N, 77.18E, h0km, mb3.5, mpv3.2, Error ellipse: s-maj=7.2km s-min=6.3km az=4.0

KRNET 28 14:30:09.0±0.1, 40.43N, 77.11E, h15km, mb2.7, ISC 28 14:30:10.2±2.7, 40.5N, 0.1x77.13E, h0.06, h6km, n20, r1513/1, 12C-2D, Kyrgyzstan-Xinjiang border region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JNKS, NRN, KDJ, etc.

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LTHK, ORTH, PPSA, etc.

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LK2D, LK2D, LK2D, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like S, Sb, Pn, etc.

IDC 28 14:34:23.1±1.9, 55.06N, 164.62E, h0km, mb3.3/3, mbtmp3.3/4, ML2.3/1, Error ellipse: s-maj=71.9km s-min=23.5km az=160.0

KRSC 28 14:34:23.8±1.7, 54.90N, 164.70E, h50km, 29km, ML3.5, ISC 28 14:34:23.1±1.5, 55.04N, 164.45E, 0.04, h1km, 11km, n39, r1965/58, mb3.4/3, Komandorsky Islands region

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like BKI, KBT, KBG, etc.

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like FNA, FNA, FNA, etc.

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Manual Solution by S. Liakopoulos First location: 2019/06/28 14:37:11, This location: 2019/06/28 14:46:59

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like FNA, FNA, FNA, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like S, Sb, Pn, etc.

Table with columns: Station Name, Frequency, Band, and other technical details. Includes stations like BRY Bratogost, THAS Thassos island, and many others.

Table with columns: Station Name, Frequency, Band, and other technical details. Includes stations like STAL TALLIGAL, MODS Modra-Piesok, and many others.

Table with columns: Station Name, Frequency, Band, and other technical details. Includes stations like NC405 NORARS Array S, NO2 NORARS Subarra, and many others.

Table with columns: Station, Name, Az, El, P, S, Pg, Time, Res. Includes stations like KZN, JAN, SRN, etc.

Table with columns: Station, Name, Az, El, P, S, Pg, Time, Res. Includes stations like MTRV, GRL, GRR, etc.

Table with columns: Station, Name, Az, El, P, S, Pg, Time, Res. Includes stations like H19K, H19K, H19K, etc.

IDC 28 15:11:52.0-0.6,55.05N:164.83E, h0km, mb4.0/26, mtbmp4.0/29, ML4.3/2, MS3.3/11, Error ellipse: s-maj=18.9km s-min=11.6km az=159.0

MTRV 18.20 56 P Pn 15 16 04.1 -1.8

baz=280 Roundabout Mou 21.61 45 Iamb P 15 16 42.7 -0.1

Code Station Name Az El Op Phase ID Time Res

Main table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res. Lists various stations and their coordinates.

Main table with columns: Station, Name, Az, El, P, S, Pg, Time, Res. Lists various stations and their coordinates.

Main table with columns: Station, Name, Az, El, P, S, Pg, Time, Res. Lists various stations and their coordinates.

28d 15h

2019 JUN

1826

Table with columns: PWL, Port Wells, 25.17, 57, P, P, 15 17 17.2 -0.9, etc. Lists various locations and their associated data points.

Table with columns: PNL, Peninsula, 29.77, 58, P, P, 15 17 59.7 +0.4, etc. Lists various locations and their associated data points.

Table with columns: FINES, FINESS Array B, 59.49, 338, P, P, 15 21 55.0 -0.3, etc. Lists various locations and their associated data points.

ADC 28 15:16:41.5:0.6, 30.75S:177.55W, h0km, mb4.2/11, mbtm4.1/11, MS3.8/4, Error ellipse: s-maj=21.4km s-min=17.5km az=97.0.

NEIC 28 15:16:44.1:1.4, 30.9S:0.1:177.5W:0.2, h10km, 1km, mb4.9, Error ellipse: s-maj=32.4km s-min=17.6km az=78.0.

ISC 28 15:16:42.7:0.5, 31.00S:0.05:177.7W:0.1, h10km, n78, s161/62, mb4.4/17, 4C-2Z, Kermadec Islands

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Lists station codes and names like GLKZ, RAO, WMGZ, etc.







Table with columns: Station, Name, Frequency, Power, and other technical details. Includes stations like JAJO, JKC, JTAJ, etc.

Table with columns: Station, Name, Frequency, Power, and other technical details. Includes stations like JMST, JHS, JHT, etc.

Table with columns: Station, Name, Frequency, Power, and other technical details. Includes stations like FAKI, FMPI, FJNY, etc.



Table with columns for station name, frequency, power, and other technical details. Includes stations like UGM Wanagama, YAK Yakutsk, MYKOM Kota Tinggi, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like NIKH Lhasa, GSI Gunungsitoli, ARMA Armidale, etc.

Table with columns for station name, frequency, power, and other technical details. Includes stations like CHNA baz=253, M13K Dai Lake, M13K Dal Lake, etc.

28K 15h

Table with columns: Station, Frequency, Power, Class, and other technical details. Includes stations like MKAR, MILA, BLDU, etc.

2019 JUN

Table with columns: Station, Frequency, Power, Class, and other technical details. Includes stations like O18K, L18K, C17K, etc.

1832

Table with columns: Station, Frequency, Power, Class, and other technical details. Includes stations like KURBB, C19K, TARG, etc.



M22K	Willow	61.12	30	P	P	16 01 02.2	0.0
M22K	Willow	61.12	30	S	S	16 08 44.6	-1.7
I21K	Tanana	61.13	26	IAMB	IAMB	16 01 05.5	
I21K	Tanana	61.13	26	P	P	16 01 04.0	+1.7
I21K	Tanana	61.13	26	S	S	16 08 49.4	+3.0
JMIU	JAMIA UNIVERSI	61.14	292	eP	IAMB	16 01 04.7	+1.7
JMIU	JAMIA UNIVERSI	61.14	292	S	IAMB	16 01 04.9	
F21K	Alatna River	61.15	23	P	P	16 01 03.6	+1.2
F21K	Alatna River	61.15	23	S	S	16 08 47.7	+1.1
KTH	Kantishna Hill	61.16	28	P	IAMB	16 01 03.4	+0.8
KTH	Kantishna Hill	61.16	28	S	IAMB	16 01 05.6	
RC01	Rabbit Creek A	61.17	30	IAMB	IAMB	16 01 04.4	
RC01	Rabbit Creek A	61.17	30	P	IAMB	16 01 02.8	+0.3
RC01	Rabbit Creek A	61.17	30	S	S	16 08 44.7	-2.2
NDI	New Delhi	61.19	292	eP	IAMB	16 01 05.1	+1.8
NDI	New Delhi	61.19	292	S	IAMB	16 01 05.2	
CUT	Chulitna	61.19	29	P	P	16 01 03.0	+0.3
CUT	Chulitna	61.19	29	S	S	16 08 45.3	-1.9
KSH	Kashi	61.20	305	P	PcP	16 01 07.5	+4.1
KSH	Kashi	61.20	305	S	PcP	16 01 46.0	+4.8
KSH	Kashi	61.20	305	S	sP	16 03 27.0	+2.4
KSH	Kashi	61.20	305	S	ScS	16 08 52.3	+3.9
KSH	Kashi	61.20	305	S	pmax	16 10 12.0	+1.5
KSH	Kashi	61.20	305	S	pmax	16 10 12.0	+1.5
LDR	Lodi Road	61.20	292	eP	IAMB	16 01 04.5	+1.1
LDR	Lodi Road	61.20	292	S	IAMB	16 01 05.0	
NPLP	NPLP New Delhi	61.23	292	eP	IAMB	16 01 04.1	+0.5
NPLP	NPLP New Delhi	61.23	292	S	IAMB	16 01 05.2	
BPAW	Bear Paw Mtn.	61.27	27	P	IAMB	16 01 04.4	+1.2
BPAW	Bear Paw Mtn.	61.27	27	S	IAMB	16 01 05.8	+1.9
BPAW	Bear Paw Mtn.	61.27	27	P	P	16 01 04.3	+1.2
BPAW	Bear Paw Mtn.	61.27	27	S	S	16 08 49.4	+1.2
AYAN	Aya Nagar	61.29	292	eP	IAMB	16 01 05.8	+1.9
AYAN	Aya Nagar	61.29	292	S	IAMB	16 01 06.0	
C21K	Knifeblade Rid	61.34	21	P	P	16 01 05.2	+1.7
C21K	Knifeblade Rid	61.34	21	S	S	16 08 50.9	+2.1
SONA	Sohna	61.36	292	eP	IAMB	16 01 05.3	+0.9
SONA	Sohna	61.36	292	S	IAMB	16 01 06.4	
E21K	Killik River	61.37	22	P	P	16 01 05.1	+1.3
E21K	Killik River	61.37	22	S	S	16 08 50.5	+1.2
TKM2	Tokmak 2	61.37	309	P	P	16 01 06.2	+1.7
TKM2	Tokmak 2	61.37	309	S	S	16 01 05.2	+0.7
OUZ	Omahuta	61.39	153	P	P	16 01 06.7	+2.4
OUZ	Omahuta	61.39	153	P	P	16 01 06.8	+2.4
OUZ	Omahuta	61.39	153	P	P	16 01 06.8	+2.4
TRF	Thorofare Moun	61.42	28	P	P	16 01 04.8	+0.4
TRF	Thorofare Moun	61.42	28	S	S	16 08 48.4	-2.0
BHK	Bhakra	61.52	296	eP	IAMB	16 01 04.3	-1.1
DHRM	DHARAMSHALA	61.52	297	eP	IAMB	16 01 07.4	+1.6
DHRM	DHARAMSHALA	61.52	297	S	IAMB	16 01 07.5	
B21K	Ikpikpik River	61.55	20	IAMB	IAMB	16 01 08.1	
B21K	Ikpikpik River	61.55	20	P	P	16 01 06.5	+1.5
B21K	Ikpikpik River	61.55	20	S	S	16 08 52.6	+1.1
H22K	Ishlatitna Cre	61.57	25	P	P	16 01 06.8	+1.6
H22K	Ishlatitna Cre	61.57	25	S	S	16 08 52.6	+0.8
A21K	Barrow	61.57	18	P	P	16 01 06.5	+1.4
A21K	Barrow	61.57	18	S	S	16 08 52.7	+1.1
MDRS	Chennai	61.59	274	eP	IAMB	16 01 07.7	+1.6
MDRS	Chennai	61.59	274	S	IAMB	16 01 09.0	
MLY	Manley	61.60	26	P	P	16 01 06.7	+1.3
MLY	Manley	61.60	26	S	S	16 08 52.0	-0.4
GHO	Glory Hole Cre	61.68	30	IAMB	IAMB	16 01 08.0	
F22K	John River	61.72	23	P	P	16 01 08.0	+1.9
F22K	John River	61.72	23	S	S	16 08 55.2	+1.6
GUNA	GUNA	61.72	288	eP	IAMB	16 01 08.6	+1.7
GUNA	GUNA	61.72	288	S	IAMB	16 01 08.7	
PWL	Port Wells	61.80	31	P	P	16 01 07.5	+0.8
PWL	Port Wells	61.80	31	S	S	16 08 55.0	+0.2
G22K	Bettles	61.80	24	P	P	16 01 07.8	+1.1
G22K	Bettles	61.80	24	S	S	16 08 54.1	-0.4
KNK	Knik Glacier	61.83	30	IAMB	IAMB	16 01 09.2	
KNK	Knik Glacier	61.83	30	P	P	16 01 07.8	+0.8
KNK	Knik Glacier	61.83	30	S	S	16 08 54.9	-0.4
KBK	Karagaybulak	61.85	308	P	P	16 01 09.2	+1.5
BHPL	Bhopal	61.89	286	eP	IAMB	16 01 09.5	+1.4
BHPL	Bhopal	61.89	286	S	IAMB	16 01 09.8	
KUDL	Kundal	61.90	292	eP	IAMB	16 01 08.6	+0.7
KUDL	Kundal	61.90	292	S	IAMB	16 01 09.9	
A22K	Sinclair Lake	61.94	19	P	P	16 01 09.3	+1.9
A22K	Sinclair Lake	61.94	19	S	S	16 08 56.3	+0.1
D22K	Aiyikay River	61.96	21	IAMB	IAMB	16 01 11.1	
D22K	Aiyikay River	61.96	21	P	P	16 01 09.7	+2.0
D22K	Aiyikay River	61.96	21	S	S	16 08 57.8	+1.2
CHMS	Chumysh	61.99	309	P	P	16 01 10.1	+1.7
THN	Thein Dam	61.99	297	eP	IAMB	16 01 09.6	+1.1
THN	Thein Dam	61.99	297	S	IAMB	16 01 10.5	
E22K	Anaktuvuk Pass	62.03	22	IAMB	IAMB	16 01 11.5	
E22K	Anaktuvuk Pass	62.03	22	P	P	16 01 09.9	+1.7
E22K	Anaktuvuk Pass	62.03	22	S	S	16 08 58.7	+1.1
RND	Reindeer	62.04	28	IAMB	IAMB	16 01 10.1	
MOO	Moorlands	62.05	178	P	P	16 01 09.3	+0.8
MOO	Moorlands	62.05	178	P	P	16 01 09.9	+1.4
WAT1	Susitna Watana	62.06	29	P	P	16 01 08.7	+0.2
WAT1	Susitna Watana	62.06	29	S	S	16 08 57.4	-0.7
SGDS	Sogindy	62.06	309	I/P	P	16 01 10.0	+1.1

MCK	McKinley	62.07	28	IAMB	IAMB	16 01 10.3	
MCK	McKinley	62.07	28	P	P	16 01 08.7	+0.2
MCK	McKinley	62.07	28	S	S	16 08 55.2	-2.9
HYB	Hyderabad	62.09	280	eP	P	16 01 09.8	+0.4
HYB	Hyderabad	62.09	280	ePcP	PcP	16 01 45.9	+0.9
HYB	Hyderabad	62.09	280	eP	PP	16 02 36.8	-2.8
HYB	Hyderabad	62.09	280	eP	sP	16 03 21.5	-4.7
HYB	Hyderabad	62.09	280	eP	PP	16 03 34.2	+1.6
HYB	Hyderabad	62.09	280	eScP	ScP	16 05 07.4	+3.2
HYB	Hyderabad	62.09	280	eS	S	16 09 02.5	+2.8
HYB	Hyderabad	62.09	280	eSS	SS	16 13 14.8	+2.7
USP	Ospenovka	62.16	309	P	P	16 01 10.8	+1.3
AAK	Ala-Archa	62.19	308	P	P	16 01 11.5	+1.6
AAK	Ala-Archa	62.19	308	P	IAMB	16 01 11.1	+1.2
AAK	Ala-Archa	62.19	308	P	IAMB	16 01 12.9	
AAK	Ala-Archa	62.19	308	P	P	16 01 10.8	+0.9
AAK	Ala-Archa	62.19	308	P	P	16 01 10.8	+0.9
AAK	Ala-Archa	62.19	308	P	P	16 09 05.6	+5.0
AAK	Ala-Archa	62.19	308	P	P	16 09 05.6	+5.0
AAK	Ala-Archa	62.19	308	P	pmax	16 01 11.1	+1.2
AAK	Ala-Archa	62.19	308	P	pmax	16 01 11.1	+1.2
AAK	Ala-Archa	62.19	308	P	P	16 01 11.2	+1.4
AAK	Ala-Archa	62.19	308	P	P	16 01 10.8	+0.9
AAK	Ala-Archa	62.19	308	P	P	16 09 01.6	+1.0
AAK	Ala-Archa	62.19	308	P	P	16 01 11.1	+1.2
UCH	Uchtor	62.19	308	P	P	16 01 12.3	+2.1
B22K	Teshkepuk Lake	62.19	20	IAMB	IAMB	16 01 12.0	
B22K	Teshkepuk Lake	62.19	20	P	P	16 01 10.5	+1.4
B22K	Teshkepuk Lake	62.19	20	S	S	16 09 00.5	+1.2
NEA2	Nenana	62.20	27	P	P	16 01 09.7	+0.4
NEA2	Nenana	62.20	27	S	S	16 08 58.5	-1.3
I23K	Minto, Yukon-K	62.20	26	IAMB	IAMB	16 01 10.2	
I23K	Minto, Yukon-K	62.20	26	P	P	16 01 10.5	+1.3
I23K	Minto, Yukon-K	62.20	26	S	S	16 09 00.1	+0.6
I23K	Minto, Yukon-K	62.20	26	S	S	16 09 00.1	+0.6
NRDN	NARIMADA NAGAR	62.23	286	eP	IAMB	16 01 12.4	+2.2
NRDN	NARIMADA NAGAR	62.23	286	S	IAMB	16 01 17.1	
M23K	Glacier View	62.25	30	P	P	16 01 10.2	+0.5
M23K	Glacier View	62.25	30	S	S	16 08 59.8	-0.6
H23K	Yukon River	62.28	25	P	P	16 01 11.3	+1.5
H23K	Yukon River	62.28	25	S	S	16 09 01.5	+0.8
G23K	Bananza Creek	62.31	24	IAMB	IAMB	16 01 13.4	
G23K	Bananza Creek	62.31	24	P	P	16 01 11.8	+1.8
G23K	Bananza Creek	62.31	24	S	S	16 09 03.2	+2.2
WCZ	Waipu Caves	62.32	153	P	P	16 01 12.9	+2.4
COLD	Coldfoot	62.37	24	P	P	16 01 12.1	+1.7
COLD	Coldfoot	62.37	24	S	S	16 09 03.5	+1.8
WAT6	Susitna Watana	62.38	29	P	P	16 01 11.2	+0.5
WAT6	Susitna Watana	62.38	29	S	S	16 09 01.3	-1.0
GLI	Glacier Island	62.40	31	P	P	16 01 11.4	+0.8
GLI	Glacier Island	62.40	31	S	S	16 09 02.4	+0.2
SCM	Sheep Creek Mo	62.44	30	P	P	16 01 12.0	+1.0
SCM	Sheep Creek Mo	62.44	30	S	S	16 09 03.4	+0.6
BTL	Baital	62.45	311	d/P	pmax	16 01 12.5	+1.2
BTL	Baital	62.45	311	P	pmax	16 01 12.6	+1.2
BTL	Baital	62.45	311	I/P	P	16 01 12.6	+1.2
TAU	Tasmania Unive	62.52	178	P	IAMB	16 01 12.5	+1.0
TAU	Tasmania Unive	62.52	178	P	IAMB	16 01 14.1	
TAU	Tasmania Unive	62.52	178	P	P	16 01 13.0	+1.4
TAU	Tasmania Unive	62.52	178	P	pmax	16 01 12.5	+1.0
TAU	Tasmania Unive	62.52	178	P	pmax	16 01 12.5	+1.0
TAU	Tasmania Unive	62.52	178	P	P	16 01 12.6	+1.0
Q23K	Middleton Isla	62.56	33	P	P	16 01 13.4	+1.7
Q23K	Middleton Isla	62.56	33	S	S	16 09 07.0	+2.9
HIN	Hinchinbrook I	62.62	31	IAMB	IAMB	16 01 14.7	
DHY	Denali Highway	62.63	28	P	P	16 01 12.7	+0.3
DHY	Denali Highway	62.63	28	S	S	16 09 05.1	-0.2
JMU	Jammu	62.64	297	eP	IAMB	16 01 15.2	+2.5
JMU	Jammu	62.64	297	S	IAMB	16 01 17.6	
MALK	Mahakanadarawa	62.66	269	P	P	16 01 10.8	-2.4
MALK	Mahakanadarawa	62.66	269	P	P	16 01 13.9	+0.7
D23K	Nanushuk River	62.67	22	IAMB	IAMB	16 01 16.0	
D23K	Nanushuk River	62.67	22	P	P	16 01 14.4	+2.1
D23K	Nanushuk River	62.67	22	S	S	16 09 07.0	+1.7
FID	Port Fidalgo	62.68	31	IAMB	IAMB	16 01 14.7	
EKS2	Erkin-Say	62.72	308	P	P	16 01 14.6	+1.3
COLA	College	62.77	26	P	P	16 01 12.9	0.0
COL							

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like D25K Kavir River, MENTASTA, SCRK Sand Creek, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like C27K Jago River, WATZ, WPRZ, RRRZ, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like L29M, J29N, J29N Klondike Camp, etc.

Table with columns: Station ID, Name, Frequency, Power, Class, and other technical details. Includes stations like R31K, LBZ, SKAG, etc.

Table with columns: Station ID, Name, Frequency, Power, Class, and other technical details. Includes stations like HG4B, U35K, A36M, etc.

Table with columns: Station ID, Name, Frequency, Power, Class, and other technical details. Includes stations like NOR, JLN, H04D, etc.



VTX	comp=Z,405nm,1.2s	87.83	57	Iamb	Iamb	16 03 36.7
PDAR	Valle De La Tr	87.83	45	P	P	16 03 34.4 0.0
PDAR	Pinedale Array	87.88	45	P	P	16 03 34.5 +0.1
PDAR	comp=Z,170m,0.5s,baz=294,slow=3.2,SNR=191			PP	PP	16 05 14.4 +1.8
PDAR	comp=Z,6.9nm,0.7s,baz=280,slow=4.2,SNR=1.3			P	P	16 07 07.0 -0.5
PDAR	comp=Z,11nm,1.1s,baz=282,slow=8.8,SNR=2.0			S	SKSac	16 13 19.5 -1.2
PDAR	comp=Z,0.2nm,0.4s,baz=304,slow=26,SNR=1.3			S	SKSac	16 21 13.3 +1.5
PDAR	comp=Z,2.3nm,0.9s,baz=134,slow=1.8,SNR=7.2			PKKp	PKKpPdf	16 24 11.7 -1.0
PDAR	comp=Z,0.7nm,0.8s,baz=110,slow=0.4,SNR=5.7			SKKpBcb	SKKpBcb	
W13A	Hualapai Mpt	87.90	53	Iamb	Iamb	16 03 37.4
BLVC	Blythe	87.93	55	Iamb	Iamb	16 03 37.3
GLA	Glamis	87.96	56	Iamb	Iamb	16 03 37.5
NUUG	Nuugaitsagi	88.03	6	i P	P	16 03 34.4 +0.2
NUUG	comp=Z,199nm,0.8s			Iamb	Iamb	16 03 36.0
FCC	Fort Churchill	88.17	26	Iamb	Iamb	16 03 37.0
LAO	LASA Array	88.28	41	Iamb	Iamb	16 03 38.6
NSS	Namsos	88.28	341	eP	P	16 03 34.6 -0.8
NSS	comp=Z,2um,1.3s			IvMB_BB	IvMB_BB	16 03 37.9
NSS	Minsk	88.32	329	eSKSac	SKSac	16 13 23.5 +1.9
NSS	comp=E,309nm,1.1s			i P	P	16 03 35.9 0.0
MNK	comp=N,301nm,1.1s			i P	P	16 03 35.9 0.0
MNK	comp=Z,808nm,0.9s,baz=57			i P	PP	16 05 13.6 -0.6
MNK	comp=Z,808nm,0.9s			i P	PP	16 07 10.8 +0.5
MNK	comp=Z,808nm,0.9s			i P	PP	16 09 09.9
MNK	comp=Z,808nm,0.9s			i S	SKSac	16 13 22.3 0.0
MNK	comp=Z,808nm,0.9s			i S	SS	16 16 26.5 -1.3
MNK	comp=Z,808nm,0.9s			i S	SSS	16 23 26.3
MNK	comp=Z,808nm,0.9s			i S	SSS	16 35 44.2
MNK	comp=Z,808nm,0.9s			i LR	LR	16 43 29.0
MNK	comp=Z,808nm,0.9s			i LRM	MLR	16 45 08.3
MNK	comp=N,3um,18.2s			i LRM	MLR	16 45 08.3
MNK	comp=Z,3um,17.4s			i LRM	MLR	16 45 08.3
MNK	Minsk	88.32	329	i P	PP	16 03 35.8 0.0
MNK	comp=Z,199nm,0.8s			i P	PP	16 05 13.6 -0.6
MNK	comp=Z,199nm,0.8s			i P	PP	16 07 10.7
MNK	comp=Z,199nm,0.8s			i P	PP	16 09 09.9
MNK	comp=Z,199nm,0.8s			i S	SKSac	16 13 22.2 0.0
MNK	comp=Z,199nm,0.8s			i S	SSS	16 23 26.3
MNK	comp=N,301nm,1.1s			pmx	pmx	
MNK	comp=Z,808nm,0.9s			pmx	pmx	
MNK	comp=E,309nm,1.1s			pmx	pmx	
MNK	comp=E,1um,18.0s			MLR	MLR	
MNK	comp=N,3um,18.0s			MLR	MLR	
MNK	comp=Z,3um,17.0s			MLR	MLR	
ROCAM	Rodriguez Isla	88.58	249	i P	P	16 03 38.9 +1.1
NACGM	Naroch	88.64	329	i P	P	16 03 36.9 -0.5
DGMT	Dagmar	88.65	38	Iamb	Iamb	16 03 38.9
SFX	San Felipe	88.70	58	Iamb	Iamb	16 03 40.6
SRU	San Rafael Swe	88.75	49	Iamb	Iamb	16 03 40.8
113A	Mohawk Valley	88.89	56	Iamb	Iamb	16 03 41.7
UMMG	Ummannaq	88.96	5	i P	P	16 03 38.2 -0.3
UMMG	comp=Z,292nm,1.4s			Iamb	Iamb	16 03 40.0
Y14A	Wickenburg	89.02	54	Iamb	Iamb	16 03 42.5
HMU	Henry Mountain	89.08	50	Iamb	Iamb	16 03 42.3
SCO	Scorebysund	89.38	355	i P	P	16 03 40.4 -0.1
SCO	comp=Z,198nm,1.2s			Iamb	Iamb	16 03 42.5
WUAZ	Wupatki	89.62	52	Iamb	Iamb	16 03 45.6
PABE	Paberze	89.62	331	P	P	16 03 41.3 -0.6
AK03	Malin Array Si	89.64	325	P	P	16 03 40.5 -1.6
SIM	Simferopol'	89.65	318	eP	P	16 03 41.0 -1.3
SIM	comp=Z,218nm,1.1s			eS	SKSac	16 07 22.9
SIM	comp=Z,218nm,1.1s			eS	SKSac	16 13 31.1 +0.7
SIM	comp=Z,98nm,19.1s			pmx	pmx	
SIM	comp=N,782nm,18.0s			smx	smx	
AKASG	Malin Array Be	89.65	325	P	P	16 03 40.5 -1.6
AKASG	comp=Z,493nm,1.6s			Iamb	Iamb	16 03 44.5
AKASG	Malin Array B	89.65	325	P	P	16 03 40.6 -1.6
AKASG	comp=Z,150m,0.5s,baz=59,slow=5.2,SNR=159			PP	PP	16 07 20.7 -0.2
AKASG	comp=Z,26nm,1.0s,baz=52,slow=8.5,SNR=6.9			SKSac	SKSac	16 13 27.8 -2.3
AKASG	comp=Z,2.1nm,0.8s,baz=57,slow=5.2,SNR=7.4			SKKpBcb	SKKpBcb	16 24 06.6 -1.8
AKBB	Malin Array Si	89.65	325	Iamb	Iamb	16 03 42.6
AKBB	comp=Z,260nm,1.3s			Iamb	Iamb	16 03 42.6
AKBB	Malin Array Si	89.65	325	eP	P	16 03 40.7 -1.5
AKBB	Malin Array Si	89.65	325	P	P	16 03 40.6 -1.6
AK01	Malin Array Si	89.65	325	P	P	16 03 40.9 -1.3
KIEV	Kiev	89.67	325	P	P	16 03 40.9 -1.4
KIEV	comp=Z,235nm,1.3s			Iamb	Iamb	16 03 42.6
KIEV	Kiev	89.67	325	i P	P	16 03 41.9 -0.3
KIEV	Kiev	89.67	325	i P	P	16 03 41.9 -0.3
KIEV	Kiev	89.67	325	i P	P	16 03 40.9 -1.3
KIEV	SNR=34			P	P	16 03 40.9 -1.3
KIEV	Kiev	89.67	325	P	P	16 03 40.9 -1.3
O20A	White River C1	89.91	47	Iamb	Iamb	16 03 46.0
214A	Organ Pipe Nat	89.95	56	Iamb	Iamb	16 03 47.0
RAYN	Ar Rayn	89.98	295	P	P	16 03 44.0 -0.3
RAYN	comp=Z,165nm,0.8s			Iamb	Iamb	16 03 45.4
RAYN	Ar Rayn	89.98	295	P	P	16 03 44.3 0.0
RAYN	Ar Rayn	89.98	295	P	P	16 03 44.0 -0.3
RAYN	comp=Z,165nm,0.9s			pmx	pmx	
RAYN	Ar Rayn	89.98	295	i P	P	16 03 44.0 -0.3
PV21	Cone Mtn., Par	90.08	49	Iamb	Iamb	16 03 47.1
PV14	Lion Creek, Pa	90.13	49	Iamb	Iamb	16 03 47.3
PV05	Paradox Valley	90.20	49	Iamb	Iamb	16 03 47.7
PV04	Paradox Valley	90.20	49	Iamb	Iamb	16 03 47.7
PV22	Blue Mesa, Par	90.22	49	Iamb	Iamb	16 03 47.7
PV16	Nyswonger Mesa	90.23	49	Iamb	Iamb	16 03 47.8
PV03	Paradox Valley	90.30	49	Iamb	Iamb	16 03 47.9
PV13	Radium Mtn., P	90.36	49	Iamb	Iamb	16 03 48.2
PV07	Paradox Valley	90.36	49	Iamb	Iamb	16 03 48.3
ILULI	Iluissat	90.47	5	Iamb	Iamb	16 03 47.3
ILULI	comp=Z,158nm,0.9s			i P	P	16 03 45.5 -0.1
ILULI	Iluissat	90.47	5	i P	P	16 03 47.0

PV15	Paradox Valley	90.52	49	Iamb	Iamb	16 03 49.0
PV01	Paradox Valley	90.55	49	Iamb	Iamb	16 03 49.0
MSEY	Mahe Island	90.56	265	P	P	16 03 47.2 0.0
MSEY	Mahe Island	90.56	265	P	P	16 03 47.8 +0.6
MSEY	Mahe Island	90.56	265	P	P	16 03 47.2 0.0
MSEY	comp=Z,104nm,1.0s			pmx	pmx	
MSEY	Mahe Island	90.56	265	i P	P	16 03 47.0 -0.1
NC405	NORSAR Array S	90.83	339	Iamb	Iamb	16 03 48.1
RSSD	Black Hills	90.85	42	P	P	16 03 48.4 +0.2
RSSD	Black Hills	90.85	42	P	P	16 03 48.4 +0.2
RSSD	comp=Z,124nm,1.0s			pmx	pmx	
RSSD	Black Hills	90.85	42	P	P	16 03 48.7 +0.6
HFS	Hagfors	90.85	338	P	P	16 03 46.0 -1.5
HFS	comp=Z,58nm,0.5s,baz=73,slow=5.0,SNR=568			PP	PP	16 07 27.2 -2.7
HFS	comp=Z,38nm,0.8s,baz=59,slow=6.6,SNR=7.2			SKSac	SKSac	16 13 33.0 -3.6
HFS	comp=Z,6.1nm,0.9s,baz=51,slow=12,SNR=3.0			PKKp	PKKpPdf	16 21 06.9 +0.5
HFS	comp=Z,1.5nm,0.4s,baz=213,slow=5.0,SNR=9.0			PKKp	PKKpPdf	
HFS	Hagfors	90.85	338	P	P	16 03 46.0 -1.5
NC303	NORSAR Array S	90.87	339	Iamb	Iamb	16 03 48.4
SUW	Suwali	90.87	330	eP	P	16 03 47.1 -0.7
SUW	comp=Z,58nm,0.5s			eP	SKSac	16 03 47.6 -0.3
BAL3X	Bal3x, Balta	90.89	322	P	P	16 03 47.6 -0.3
W18A	Petrified Fore	91.00	52	Iamb	Iamb	16 03 51.9
MVCO	Mesa Verde	91.00	50	Iamb	Iamb	16 03 51.6
DOMB	Dombas	91.01	341	eP	P	16 03 47.6 -0.6
DOMB	comp=Z,2um,2.2s			IvMB_BB	IvMB_BB	16 03 51.4
DOMB	comp=Z,2um,2.2s			eP	SKSac	16 06 10.1 -1.6
DOMB	comp=Z,2um,2.2s			eP	SKSac	16 03 49.0 +2.3
NC201	NORSAR Array S	91.02	339	Iamb	Iamb	16 03 49.2
NC204	NORSAR Array S	91.03	340	Iamb	Iamb	16 03 49.2
RNPP8	Sopavik	91.03	327	P	P	16 03 47.6 -0.9
NB2	NORSAR Subarra	91.06	339	P	P	16 03 47.3 -1.2
NB2	comp=Z,57nm,0.6s,baz=44,slow=5.1			PP	PP	16 07 30.7 -0.9
NB2	comp=Z,44nm,1.1s,baz=69,slow=6.5			PP	PP	16 07 30.7 -0.9
NB2	NORSAR Subarra 91.06 339			P	P	16 03 47.3 -1.2
NOA	NORSAR Array B	91.06	339	P	P	16 03 47.3 -1.2
NOA	comp=Z,32nm,0.6s,baz=47,slow=4.5,SNR=140			PP	PP	16 05 29.2 +2.1
NOA	comp=Z,6.4nm,0.8s,baz=45,slow=4.5,SNR=2.9			PP	PP	16 07 30.1 -1.5
NOA	comp=Z,31nm,0.9s,baz=46,slow=8.3,SNR=12			PP	PP	16 07 30.1 -1.5
NOA	comp=Z,1.2nm,0.9s,baz=47,slow=8.5,SNR=2.4			SKSac	SKSac	16 13 34.2 -3.6
MOL	Molde	91.07	342	eP	P	16 03 48.0 -0.4
MOL	comp=Z,2um,1.8s			IvMB_BB	IvMB_BB	16 03 49.9
MOL	comp=Z,2um,1.8s			eP	SKSac	16 06 11.7 -0.1
MOL	comp=Z,2um,1.8s			eP	SKSac	16 07 33.4 +1.8
MOL	comp=Z,2um,1.8s			eP	SKSac	16 13 36.5 -1.2
RNPP8	Varash	91.09	327	P	P	16 03 47.7 -1.1
BZK	Bozkurt	91.13	323	i P	P	16 03 49.0 +0.2
RNPP5	Staryi Chortor	91.14	326	P	P	16 03 48.1 -0.9
NC602	NORSAR Array S	91.17	339	eP	P	16 03 47.3 -1.7
NB000	NORSAR Array S	91.21	339	Iamb	Iamb	16 03 52.0
ICESG	Greenland Ices	91.25	1	i P	P	16 03 49.8 +0.1
ICESG	comp=Z,382nm,1.4s			Iamb	Iamb	16 03 52.5
NAO01	NORSAR Array S	91.31	339	Iamb	Iamb	16 03 50.1
TUC	Tucson	91.38	55	P	P	16 03 52.1 +1.4
TUC	Tucson	91.38	55	P	P	16 03 52.1 +1.4
TUC	comp=Z,106nm,1.0s			pmx	pmx	
SORM	Soroca	91.49	323	i P	P	16 03 49.5 -1.2
SORM	Soroca	91.49	323	i P	P	16 03 49.5 -1.2
AKN	Aaknes	91.53	341	eP	P	16 03 50.9 +0.2
ILGA	Ilgaz	91.75	315	Iamb	Iamb	16 03 55.9
NDNU	Novodnistrovsk	91.80	324	i P	P	16 03 51.1 -1.1
KIS	Kishinev	91.83	322	i P	P	16 03 50.0 -2.3
KIS	comp=Z,440nm,2.6s			eP	SKSac	16 05 29.0 -1.9
KIS	comp=Z,440nm,2.6s			eP	SKSac	16 06 09.0 +6.3
KIS	comp=Z,440nm,2.6s			eP	SKSac	16 07 38.0 0.0
KIS	comp=Z,440nm,2.6s			eP	SKSac	16 08 50.0 -2.3
KIS	comp=Z,440nm,2.6s			eP	SKSac	16 08 50.0 -1.9
KIS	comp=Z,440nm,2.6s			i P	PP	16 07 38.0
KIS	comp=Z,440nm,2.6s			i P	PP	16 09 39.0
KIS	comp=Z,440nm,2.6s			i P	PP	16 13 41.0
KIS	comp=Z,440nm,2.6s			i P	PP	16 14 03.0 -1.2
KIS	comp=Z,440nm,2.6s			i P	PP	16 15 27.0
KIS	comp=Z,440nm,2.6s			MLR	MLR	
MILM	Milestii Mici	91.88	322	i P	P	16 03 50.0 -2.5
MILM	comp=Z,1um,17.5s			i P	PP	16 05 25.0 -6.1
MILM	comp=Z,320nm,2.1s			i P	PP	16 06 07.0 -8.6
MILM	Milestii Mici	91.88	322	i P	P	16 07 41.0 +2.6
MILM	Milestii Mici	91.88	322	LRM	MLR	16 07 43.0





KHC		eAS	16 17 21.3
KHC		ex	16 31 40.0
KHC	Kasperske Hory	i P	16 04 22.4 -0.6
KHC		e	16 06 30.7
KHC		e	16 14 18.6
KHC		P	16 04 22.2 -0.8
KNT	Kasperske Hory	P	16 04 22.2 -1.0
DRUM	Mains of Drumt	P	16 04 19.9 -3.0
MANZ	Manzenberg	ePP	16 08 31.8 +1.5
LEWI	Lewis, Hebride	ePP	16 04 20.9 +3.1
GECZ	GERESS Array S	ePP	16 08 31.8 +0.9
GERES	GERESS Array B	P	16 04 23.0 -0.7
GERES	comp-Z, 8.6nm, 0.7s, baz=41, slow=9.1, SNR=6.1	PP	16 08 30.7 -0.2
GERES	comp-Z, 1.5nm, 1.1s, baz=82, slow=1.9, SNR=6.3	SKS	16 14 19.4 +0.4
GERES	comp-Z, 0.7nm, 0.6s, baz=230, slow=0.8, SNR=4.3	PKKbPbc	16 20 50.2 -1.1
GERES	GERESS Array B	P	16 04 23.0 -0.7
ROTZ	Rotzenbach	ePP	16 08 32.5 +1.4
HORT	Horitais	ePP	16 04 22.2 -2.0
IBDN	Ibbenduren	ePP	16 08 31.6 +0.4
PAIG	Pailouir	P	16 04 23.0 +3.1
THE	The Thessaloniki	P	16 04 22.4 -1.9
SKY	Skios Island	P	16 04 23.4 -1.1
WET	Wetzell	ePP	16 08 33.5 +1.4
ARSA	Arzberg	i Pdiff	16 04 25.2 +0.7
ARSA	comp-Z, 8.5nm, 0.9s, SNR=1.5	ePP	16 08 34.8 +2.6
KARP	Karpathos	P	16 04 24.4 -0.5
UBBA	Unterbreizbach	ePP	16 08 32.9 +0.4
SKO	Skopje	i P	16 04 25.0 0.0
BLS	Laz#2631	ePP	16 04 25.0 -0.1
KPL	Plocton	ePP	16 04 23.4 -1.6
MOA	Molin	i Pdiff	16 04 25.5 0.0
MOA	comp-Z, 7.6nm, 0.8s, SNR=10.0	ePP	16 08 32.7 -1.1
AOS	Alonissos	P	16 04 23.6 -2.1
RUDO	Rudo	ePP	16 04 25.5 -0.3
KYM	Kymi, Euboea I	ePP	16 04 24.4 -2.0
IVA	Beane	i Pdiff	16 04 26.4 -0.3
NEO	Neokhori	P	16 04 25.3 -1.9
PERH	Pernice	ePdiff	16 04 25.9 -1.4
PHS	Sotho	ePdiff	16 04 27.6 +0.2
SOKA	comp-Z, 8.3nm, 1.0s, SNR=2.2	i PP	16 08 34.5 -2.6
SOKA	Sotho	i P	16 08 34.5 -2.6
BIOA	Bad Ischl, Aus	ePdiff	16 04 27.7 +0.4
BIOA	comp-Z, 6.3nm, 0.8s, SNR=11	i PP	16 08 35.7 -1.3
KOME	Kolasin	i Pdiff	16 04 27.2 -0.5
THERA	Ancient Thera, A051A	P	16 04 25.3 -2.7
A051A	Mrakovica	ePP	16 04 29.7 +1.7
BLY	Banja Luka	ePP	16 04 28.0 0.0
DION	Dionisos Attika	P	16 04 26.2 -2.1
FNDA	Florida	P	16 04 26.9 -1.6
PTL	Penteli	P	16 04 26.5 -2.1
KZN	Kozani	P	16 04 26.9 -1.8
TYRN	Tyrmavos	P	16 04 26.9 -2.0
PUK	Puka	P	16 04 28.9 -0.8
ATHU	Athens Univers	P	16 04 26.9 -2.1
CRES	Cresnjevec Ost	ePP	16 04 28.1 -0.8
OBKA	Obir	ePP	16 04 26.5 -2.5
OBKA	Obir	ePdiff	16 04 28.4 -0.6
OBKA	comp-Z, 4.7nm, 0.7s	PP	16 08 41.4 +1.6
OBKA	Obir	ePP	16 08 41.4 +1.6
OHR	Ohrid	P	16 04 28.7 -0.4
IOB	Jochberg	ePP	16 04 29.1 +1.5
LKR	Lokris	P	16 04 27.0 -2.5
PDG	Podgorica	ePP	16 04 29.0 -0.4
PDG	Podgorica	i P	16 04 29.0 -0.4
PDG	Podgorica	i P	16 04 28.5 -0.9
VILL	Villia	ePP	16 04 27.0 -2.5
THI	Thessaloniki	P	16 04 27.0 -2.4
TNS	Taus Mts	ePP	16 08 41.4 +1.6
BRY	Bratogost	P	16 04 29.0 -1.1
BRY	Bratogost	i P	16 04 29.0 -1.1
PGBU	Glenfirbraes	ePP	16 04 25.8 -3.8
CEME	Cervo	ePP	16 04 29.2 -0.9
AXAR	Agios Charalamb	P	16 04 27.9 -2.3
EKA	Eskdalemuir Ar	ePP	16 04 29.8 0.0
EKA	comp-Z, 5.2nm, 0.5s, baz=27, slow=5.3, SNR=22	PP	16 06 10.7 +1.7
EKA	comp-Z, 4.0nm, 1.0s, baz=27, slow=5.7, SNR=2.2	PP	16 08 40.1 -1.0
NEST	Nestorio	P	16 04 28.9 -1.4
ESK	Eskdalemuir	ePP	16 04 27.2 -2.7
LESA	Schwarzsteintal	i Pdiff	16 04 30.6 +0.3
LESA	comp-Z, 8.0nm, 1.0s, SNR=1.6	i PP	16 08 45.0 +3.1
LESA	comp-Z, 3.7nm, 0.8s	SKS	16 14 25.1 -1.2
DRME	Dracevica, Mon	ePP	16 04 30.0 -0.3
DRME	Dracevica, Mon	i P	16 04 30.0 -0.3
AGG	Agios Georgios	P	16 04 26.6 -3.9
GDLE	Gladstade, N Y	ePP	16 04 26.9 -3.1
A050A	Klekovca	ePP	16 04 30.6 -0.6
BOJS	Bojanci	P	16 04 30.2 -0.1
EDMD	Edmundbyers	ePP	16 04 27.4 -2.7
KQPA	Kipourou	P	16 04 28.7 -2.0
MYKA	Terra Mystica	i Pdiff	16 04 29.5 -1.1
MYKA	comp-Z, 8.8nm, 0.8s, SNR=7.5	i PP	16 08 42.6 0.0
BUM	Brajići-Budva	i P	16 04 30.2 -0.6
ULC	Ulcinj	i P	16 04 30.5 -0.3
TIR	Tirane	i P	16 04 32.1 +6.9
TIR	Tirane	i P	16 04 24.0 -6.8
TIR	Tirane	i P	16 04 30.6 -0.3
MAKR	Makrakomi, Fth	P	16 04 28.7 -2.3
CRNS	Crihi Vrh	ePdiff	16 04 29.9 -1.6
FUR	Furstenfeldbru	ePP	16 08 44.8 +1.9
TREB	Trebainje	ePP	16 04 29.5 -1.4
LTK	Loutrakí	P	16 04 27.8 -3.4
GBRS	Gornja Briga	ePdiff	16 04 30.1 -1.2
GBRS		ePP	16 08 40.8 -2.9
GBRS		eSKS	16 14 25.4 -1.9
GBRS		e	16 17 30.3
HCV	Herceog Novi	P	16 04 30.3 -1.1
HCV	Herceog Novi	i P	16 04 29.7 -1.7
CEK	Cerknica	ePP	16 04 30.6 -0.9
EVY	Evyritania	P	16 04 31.6 -0.7
STON	Ston	ePP	16 04 31.3 -0.8
ANI	Anovija	P	16 04 30.4 -2.1
IDI	Anovija	eSKS	16 14 27.1 -1.7
NEWG	New Galloway	P	16 04 30.3 -1.7
TETR	Tetraokomo, Epi	P	16 04 31.5 -1.1
KALE	Kalithra	P	16 04 29.9 -2.8
ANX	Ano Chora	P	16 04 31.0 -1.8
SERG	Sergopolis	P	16 04 30.1 -2.8
ABTA	Abftalersbach	i Pdiff	16 04 32.0 -0.8
ABTA	comp-Z, 8.2nm, 1.0s, SNR=1.0	i PP	16 08 47.5 +1.4
ABTA	comp-Z, 1.1nm, 0.8s	eSKS	16 14 25.5 -3.5
BESW	Keswick, Cumber	ePP	16 04 30.9 -1.6
KTNL	Ternell	ePdiff	16 04 30.2 -1.7
BTNL		ePP	16 08 46.0 -0.2
WATA	Walderalm	ePP	16 08 47.6 +1.2
BEEN	Eben Email	ePdiff	16 04 32.5 -0.3
WTTA	Wattenberg	i Pdiff	16 04 33.4 +0.2
WTTA	comp-Z, 7.0nm, 0.8s, SNR=5.7		

WTTA	comp-Z, 3.7nm, 0.9s	ePP	16 08 47.4 +0.7	
MEM	Membach	100.84 334	dPdiff	16 04 33.1 +0.3
MEM		ePP	16 08 46.8 +0.3	
EFPA	Efpalio	100.84 318	P	16 04 31.7 -1.4
GOUS	Gouras	100.85 317	P	16 04 30.9 -2.5
SKDS	Skadanscina	100.85 327	ePP	16 04 32.1 -1.0
STU	Stuttgart	100.87 332	ePP	16 08 49.4 +2.7
HPK	Haveray Park	100.88 340	eP	16 04 30.7 -2.2
HLV	Kalavryta, Ach	100.91 317	P	16 04 31.0 -2.6
SCHO	Schefferville	100.95 18	P	16 04 33.9 +0.6
SCHO	comp-Z, 2.0nm, 0.9s, baz=328, slow=6.8, SNR=2.6	S	SKS	16 14 27.2 -2.2
SCHO	comp-Z, 2.4nm, 0.9s, baz=343, slow=19.1, SNR=1.5	S	PKKbPbc	16 20 42.4 -2.8
SCHO	comp-Z, 2.9nm, 0.4s, baz=159, slow=8.2, SNR=12	S	SKKbPbc	16 23 40.7 -0.5
SCHO	comp-Z, 3.8nm, 0.9s, baz=130, slow=4.3, SNR=4.5	S	SKKbPbc	16 23 40.7 -0.5
PVO	Paravola	100.97 318	P	16 04 32.3 -1.4
AMPL	Ampelaki	100.98 316	P	16 04 31.8 -2.0
GALT	Galloway	101.03 342	eP	16 04 31.8 -1.7
MOTA	Mosalm	101.03 330	i Pdiff	16 04 34.0 0.0
MOTA	comp-Z, 5.3nm, 1.1s, SNR=6.8	ePP	16 08 45.0 -3.1	
MOTA	comp-Z, 2.5nm, 1.0s	eSKS	SKS	16 14 27.7 -2.6
BHOH	Houevgeuz	101.04 334	dPdiff	16 04 33.6 -0.2
BHOH		ePP	16 08 48.8 +1.0	
BSI	Sart Tilman	101.04 335	ePdiff	16 08 48.0 +0.3
BSI		ePP	16 08 48.0 +0.3	
SOTA	Sankt Quirin	101.07 330	i PP	16 08 47.1 -1.2
SOTA	comp-Z, 1.7nm, 0.9s	i SKS	SKS	16 14 29.0 -1.4
RETA	Reutte	101.09 330	i Pdiff	16 04 34.7 +0.5
RETA	comp-Z, 3.0nm, 0.7s, SNR=6.8	i PP	PP	16 08 45.7 -2.7
VLX	VLX	101.16 316	P	16 04 33.1 -1.6
IGT	Igachokeraia	101.16 319	P	16 04 33.1 -1.4
VLI	Veliai	101.17 316	P	16 04 31.6 -3.0
BCLA	Clavier	101.27 335	dPdiff	16 04 33.4 -0.5
BCLA		ePP	16 08 43.7 -5.8	
ECLA	ECLA	101.28 318	ePdiff	16 08 30.9 -5.3
AXA	Araxos	101.31 318	P	16 04 34.0 -1.3
KTHA	Kythira Island	101.35 315	P	16 04 33.6 -1.9
UCC	Uccle	101.35 335	dPdiff	16 04 34.4 -0.7
UCC		ePP	16 08 49.8 -0.3	
BGES	Gesves	101.39 335	dPdiff	16 04 34.8 -0.5
BGES		ePP	16 08 49.8 -0.3	
LNKD	Lefkada island	101.41 318	P	16 04 34.3 -1.4
AKOY	Antikythira Is	101.41 315	P	16 04 33.8 -2.0
FETA	Feichten	101.44 330	ePdiff	16 04 36.2 +0.3
FETA	comp-Z, 6.2nm, 1.0s, SNR=6.7	ePP	PP	16 08 49.9 -1.3
FETA	comp-Z, 1.9nm, 1.1s	eSKS	SKS	16 14 32.6 +0.3
WLF	Walferdange	101.51 334	P	16 04 34.9 -0.9
WLF	Walferdange	101.51 334	dPdiff	16 04 36.2 +0.3
WLF		ePP	16 08 51.5 +0.1	
EVGI	Lefkada island	101.51 318	P	16 04 35.1 -1.0
IOMK	Kirk Michael	101.52 342	eP	16 04 31.2 -4.6
ITM	Ithomi	101.56 317	P	16 04 35.1 -1.3
FLM	Mareduos	101.58 335	dPdiff	16 08 49.5 +1.5
BMRD		ePP	16 08 51.5 -0.3	
BLF	Black Forest	101.58 332	ePP	16 08 52.3 +0.3
IDGL	Inch Island, C	101.61 344	eP	16 04 35.6 -0.5
IDGL	Inch Island, C	101.61 344	eP	16 04 36.2 0.0
DAVL	Davall	101.65 330	i Pdiff	16 08 52.8 +1.0
DAVA	Damuels	101.65 330	i Pdiff	16 04 37.3 +0.6
DAVA	comp-Z, 9.3nm, 0.9s, SNR=8.7	ePP	PP	16 08 51.2 -1.5
FSK	Fiasko	101.67 318	P	16 04 35.1 -1.7
CWF	Charnwood Fore	101.81 340	eP	16 04 34.5 -2.6
DOW	Dourbes	101.81 335	ePP	16 04 37.3 +0.1
DOU		ePP	16 08 51.4 -2.1	
DOU		ePdiff	16 08 55.0 -2.7	
VLS	Valsamata	101.82 318	P	16 04 36.4 -1.1
PCSS	Pessara-Kefalo	101.85 318	P	16 04 36.5 -0.2
ILTH	Belurong, Co L	102.22 343	eP	16 04 33.6 -5.3
ILTH	Belurong, Co L	102.22 343	eP	16 08 56.9 -1.3
FOEL	Foel Wyfla	102.29 341	eP	16 04 35.4 -3.9
TUE	Stuetta	102.49 330	P	16 04 40.3 -0.3
MATE	Matera	102.63 322	i P	16 04 40.7 -0.3
HMXN	Hermonsteux	102.80 338	eP	16 04 37.8 -3.7
DSB	Dublin	102.92 342	PP	16 09 03.1 +3.5
MCH1	Michaelchurch	102.99 340	eP	16 04 36.5 -5.9
SWNI	Swindon	103.01 339	eP	16 04 40.5 -2.0
L'Aquila	L'Aquila	103.36 325	P	16 04 42.1 +1.7
ACU		103.36 325	ePP	16 09 01.1 +0.3
TIP	Timpagrande	103.55 321	i P	16 04 28.8 -1.7
IGLA	Glengowla, Co	103.58 344	PP	16 04 49.9 +0.2
IGLA	Glengowla, Co	103.58 344	PP	16 04 50.0 -2.5
VLC	Villacollemeur	103.66 328	PKP	16 09 01.1 -0.2
IWEX	Carrickbyrne,	103.81 342	PP	16 09 05.1 +3.9
DYA	Yadsworth,	104.63 340	eP	16 04 45.6 -4.1
MAW	Mawson	105.00 203	Pdiff	16 04 54.4 +3.6
MAW	comp-Z, 3.4nm, 0.6s, baz=87, slow=7.3, SNR=8.2	PP	16 09 17.5 -0.2	
MAW	comp-Z, 2.2nm, 1.1s, baz=80, slow=11.1, SNR=6.6	PKKbPbc	PKKbPbc	16 20 32.1 -1.5
MAW	comp-Z, 8.5nm, 0.8s, baz=242, slow=3.5, SNR=9.2	PKKbPbc	PKKbPbc	16 04 47.4 -4.4
USA	Saint Aubin	105.10 338	eP	16 09 18.8 -1.8
VAL	Valencia	105.14 334	PKP	16 04 50.0 -2.5
CCAI	Carmenellis	105.26 340	PKP	16 05 13.2 -4.1
QSPA	South Pole Q1	109.67 180	Pdiff	16 09 11.6 -0.1
QSPA	comp-Z, 1.7nm, 0.9s, baz=274, slow=1.8, SNR=7.0	PKKbPbc	PKKbPbc	16 09 52.6 +1.1
QSPA	comp-Z, 7.4nm, 0.7s, baz=342, slow=3.3, SNR=10	PP	16 09 52.6 +1.1	
QSPA	comp-Z, 6.5nm, 1.2s, baz=2.4, slow=3.1, SNR=1.5	PKKbPbc	PKKbPbc	16 20 16.6 -3.3
KEST	Kesra	110.22 322	Pdiff	16 05 15.8 -0.7
KEST	comp-Z, 5.8nm, 0.9s, baz=45, slow=8.6, SNR=6.4	PKKbPbc	PKKbPbc	16 09 13.8 0.0
KEST	comp-Z, 10nm, 0.9s, baz=72, slow=3.2, SNR=5.6	PKKbPbc	PKKbPbc	16 09 54.0 -1.3
EIBI	Ibiza	111.97 330	PP	16 10 07.7 +0.3
SET	Setif	112.08 325	P	16 05 10.0 -1.3
MBAR	Mbarara	112.41 278	i Pdiff	16 09 20.5 +1.9
MBAR		ePP	16 10 11.7 0.0	
ECHE	Chera	112.58 332	PP	16 10 11.7 0.0
ECAL	Calabar	112.96 337	PP	16 10

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for MACA, SHEL, SHEL, etc.

CATAC 28 16:04:18.5:0.3, 14°N, 9°0'W, h10km, M2.5/8, MLV2.5/8, Error ellipse: s-maj=4.9km s-min=3.6km az=30.6, confirmed, El Salvador

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for NUBE, LOAL, FAME, etc.

ROM 28 16:06:42.0:0.2, 38°35'N, 0°01'47.1E, h9km, M2km, ML1.4/5, Error ellipse: s-maj=1.7km s-min=0.6km az=40.0, Sicily

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for LLI, VPL, IFIL, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for MUOCR, MUCR, IACRU, etc.

PRU 28 16:13:49.8, 50°08'N, 18°35'E, h0km, IPEC 28 16:13:48.5:0.3, 50°07'N, 18°41'E, h1km, ML1.6/4, Error ellipse: s-maj=1.9km s-min=1.8km az=22.0, Poland

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for OKC, STEB, MORC, etc.

IDC 28 16:24:03.4:0.4, 2, 47.72N, 92.78W, h0km, mbtmp2.4/1, ML0.2/1, Error ellipse: s-maj=70.4km s-min=27.1km az=52.0, Minnesota

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for ULM, IHOCA, IS6U, etc.

IDC 28 16:28:05.1:1.7, 2.93S, 138.46E, h0km, mb3.2/2, mbtmp3.2/4, ML3.0/2, Error ellipse: s-maj=33.6km s-min=18.3km az=161.0, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for JAY, WRA, ASAR, etc.

IDC 28 16:47:41.3:1.3, 11.97N, 87.03W, h71km, 44km, MW3.7, CATAC 28 16:48:42.9:0.4, 12°N, 3°8'7W, h43km, 4km, M3, 6/24, MLV2.6/24, Error ellipse: s-maj=6.6km s-min=3.6km az=31.0, S, confirmed

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for MSFV, STKA, ASAR, WRA, etc.

UCR 28 16:48:41.3:1.3, 11.97N, 87.03W, h71km, 44km, MW3.7, CATAC 28 16:48:42.9:0.4, 12°N, 3°8'7W, h43km, 4km, M3, 6/24, MLV2.6/24, Error ellipse: s-maj=6.6km s-min=3.6km az=31.0, S, confirmed

ISC 28 16:48:43.1:1.6, 12.06°N, 0°06.86'W, h0km, 10km, n45, c075/60, 10C-2D, Nicaragua

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for COPN, ALEN, ALEN, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for CRUN, USIN, USIN, etc.

GUC 28 17:35:55.6:0.8, 29.37S, 71.57W, h50km, 2km, ML3.1, SJA 28 17:35:57.4:1.6, 29.35S, 71.53W, h73km, 16km, ML3.3, MW3.5

ISC 28 17:35:52.4:1.9, 29.23S, 71.65W, h0km, 12km, n21, c197/31, 2D, Near coast of central Chile

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for CO05, CO05, CO05, etc.

CO03 EI Pedregal 1.73 151 eP Pn 17 36 23.1 -0.2

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for CO03, CO02, CO02, etc.

RTLL Cerro Villucun 3.40 127 eP Pn 17 36 47.9 +1.6

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for AVFE, AVFE, ASAL, etc.

IDC 28 17:51:31.3:0.9, 8.54N, 127.27E, h0km, mb3.9/9, mbtmp3.9/10, ML4.1/1, Error ellipse: s-maj=32.3km s-min=15.9km az=82.0

NEIC 28 17:51:38.3:1.0, 8.14N, 0.09, 126.5E, 0.1, h44km, 8km, mb4.4/22, Error ellipse: s-maj=18.4km s-min=13.3km az=91.0

ISC 28 17:51:36.7:0.6, 8.16N, 0.08, 126.5E, 0.1, h35km, n38, c097/38, mb3.4/20, Mindanao

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, h, m, s, ISC. Includes entries for DAV, DAV, DAV, etc.











BOD	comp=Z,26nm,1.7s			pmax	pmax				
J20K	Nowinta River	82.27	16	IAMS_20	IAMS_20	19 09	43.7		
EYAK	Cordova Ski Ar	82.29	22	IAMS_20	IAMS_20	18 56	41.5		
KAIM	Kayak Island	82.36	23	IAMS_20	IAMS_20	18 57	42.5		
F17K	Baldwin Penmit	82.39	13	IAMS_20	IAMS_20	18 58	12.5		
RAGM	Ragged Mountai	82.57	22	IAMS_20	IAMS_20	18 59	03.0		
HMT	Hamilton	82.69	22	IAMS_20	IAMS_20	18 58	25.2		
SUCK	Suckling Hills	82.70	23	IAMS_20	IAMS_20	18 58	03.4		
H19K	Roundabout Mou	82.74	15	IAMS_20	IAMS_20	18 59	40.9		
GOMU	Geerlu	82.80	309	P	P	18 26 51.3	+0.5		
GOMU				S	S	18 37 09.3	-0.3		
GOMU				SS	SS	18 42 33.8	+1.2		
GOMU				pmax	pmax				
TRF	Thorofoe Moun	82.84	18	IAMS_20	IAMS_20	18 58	03.8		
KLU	Klutina	82.87	21	IAMS_20	IAMS_20	18 58	05.9		
BERG	Berg Lake	82.94	23	IAMS_20	IAMS_20	18 58	11.8		
BMRM	Bremner River	82.99	22	IAMS_20	IAMS_20	19 10	23.0		
G19K	Purcell Mounta	83.08	14	IAMS_20	IAMS_20	18 58	48.9		
BPAW	Bear Paw Mtn.	83.11	18	IAMS_20	IAMS_20	19 10	47.0		
ZAK	Zakamensk	83.18	325	eP	P	18 26 52.5	+0.3		
ZAK				pmax	pmax				
C16K	Lisburne Hills	83.19	10	IAMS_20	IAMS_20	18 59	29.6		
RND	Reindeer	83.25	19	P	P	18 26 51.4	-0.8		
RND				IAMS_20	IAMS_20	19 11	04.6		
RND	Reindeer	83.25	19	P	P	18 26 51.4	-0.8		
RND				pmax	pmax				
RND	comp=Z,5.0nm,0.9s			MLR	MLR				
WAX	Waxell Ridge	83.30	23	IAMS_20	IAMS_20	18 57	50.2		
E18K	Tukphalearik C	83.35	12	Iamb	Iamb	18 27	20.2		
E18K				IAMS_20	IAMS_20	18 59	25.1		
CRQM	Cirque	83.39	22	IAMS_20	IAMS_20	18 58	36.0		
HOPS	Hopland Field	83.39	48	IAMS_20	IAMS_20	19 04	42.5		
JCC	Jacoby Creek	83.41	46	IAMS_20	IAMS_20	19 10	00.7		
N25K	Chitina, Valde	83.42	21	Iamb	Iamb	18 27	34.6		
N25K				IAMS_20	IAMS_20	18 58	32.3		
RDOG	Red Dog Mine	83.44	11	IAMS_20	IAMS_20	18 59	48.2		
MAW	Mawson	83.46	202	P	P	18 26 53.7	+0.5		
MAW				LR	LR				
MAW	comp=Z,328nm,18.1s,baz=116,slow=5.1,SNR=6.1			1	1	19 01	41.4		
MESA	MESA	83.47	23	IAMS_20	IAMS_20	18 57	43.8		
MESA				IAMS_20	IAMS_20	19 01	58.5		
F19K	Shalruckik Mo	83.48	14	IAMS_20	IAMS_20	19 01	58.5		
DHY	Denali Highway	83.48	19	IAMS_20	IAMS_20	18 58	34.9		
TGL	Tana Glacier	83.50	23	IAMS_20	IAMS_20	18 58	49.4		
IRK	Irkutsk	83.56	327	eP	P	18 26 54.1	+0.2		
IRK				pmax	pmax				
ISLE	Juniper Island	83.59	23	IAMS_20	IAMS_20	18 58	40.9		
GLB	Gilahina Butte	83.59	22	IAMS_20	IAMS_20	19 09	09.9		
BWN	Browne	83.62	18	IAMS_20	IAMS_20	18 59	30.7		
I21K	Tanana	83.64	16	IAMS_20	IAMS_20	19 07	28.9		
YAH	Yahits	83.67	23	IAMS_20	IAMS_20	18 58	19.8		
HA1K	Melozitna Rive	83.78	16	IAMS_20	IAMS_20	19 00	31.6		
GRNC	Granite Creek	83.89	23	IAMS_20	IAMS_20	18 58	49.0		
TABL	Table Mountain	83.95	23	IAMS_20	IAMS_20	18 58	09.4		
NEA2	Nenana	84.04	18	IAMS_20	IAMS_20	18 58	50.0		
PCA	Pinnacle	84.08	24	IAMS_20	IAMS_20	18 59	01.0		
E19K	Redstone River	84.11	13	IAMS_20	IAMS_20	19 02	19.3		
F20K	Avaraat Lake	84.14	14	IAMS_20	IAMS_20	19 00	12.8		
BARN	Barnard Glacie	84.14	23	IAMS_20	IAMS_20	18 58	49.4		
CTGM	Chitina Glacie	84.20	23	IAMS_20	IAMS_20	18 58	18.1		
BCPM	Bancas Point	84.24	24	IAMS_20	IAMS_20	18 58	36.2		
LOGN	Logan Glacier	84.24	23	IAMS_20	IAMS_20	18 58	19.1		
G21K	Allakale	84.26	15	IAMS_20	IAMS_20	19 00	28.2		
C18K	Utukok River	84.28	11	IAMS_20	IAMS_20	18 58	42.4		
M21K	Pelican	84.51	27	IAMS_20	IAMS_20	19 08	37.5		
S36K	Nabesna, AK	84.51	21	Iamb	Iamb	18 27	19.0		
M26K				IAMS_20	IAMS_20	18 58	48.2		
O28M	Mount Upton	84.52	23	Iamb	Iamb	18 29	54.6		
O28M				IAMS_20	IAMS_20	18 58	27.9		
HDA	Harding Lake	84.56	19	Iamb	Iamb	18 27	59.3		
HDA				IAMS_20	IAMS_20	18 59	56.2		
COLA	College	84.61	18	IAMS_20	IAMS_20	18 59	58.5		
YBH	Yreka Blue Hor	84.67	45	P	P	18 26 58.7	-1.3		
YBH				LR	LR	19 00	46.3		
YBH	Yreka Blue Hor	84.67	45	P	P	18 26 58.7	-1.3		
YBH				pmax	pmax				
RIDG	Independent RI	84.77	20	Iamb	Iamb	18 27	20.8		
RIDG				IAMS_20	IAMS_20	18 58	51.9		
D19K	Kuna River	84.77	12	IAMS_20	IAMS_20	19 00	52.6		
L26K	Log Cabin Wild	84.80	21	IAMS_20	IAMS_20	18 58	58.7		
H23K	Yukon River	84.80	17	IAMS_20	IAMS_20	19 12	06.6		
F21K	Alatna River	84.81	15	IAMS_20	IAMS_20	18 59	53.8		
P29M	Windy Craggy	84.82	25	IAMS_20	IAMS_20	19 07	02.6		
IL31		84.83	18	Iamb	Iamb	18 27	26.4		
ILAR	Eielson Array	84.83	18	P	P	18 26 58.3	-1.8		
ILAR				P	P	18 26 58.5	-1.6		
O29M	Mount Kennedy	84.87	24	IAMS_20	IAMS_20	19 06	08.0		
M27K	Eagle Creek, AK	84.88	22	Iamb	Iamb	18 28	25.7		
DOT	Dot Lake	84.97	20	Iamb	Iamb	18 27	21.7		
DOT				IAMS_20	IAMS_20	19 04	56.1		

C19K	Lookout Ridge	84.98	12	IAMS_20	IAMS_20	18 59	38.0		
MOY	Mondy	85.06	325	eP	P	18 27 01.8	+0.1		
MOY				pmax	pmax				
J25K	Salcha River	85.19	19	Iamb	Iamb	18 27	22.7		
J25K				IAMS_20	IAMS_20	19 00	11.1		
HATC	Hat Creek Radi	85.21	47	IAMS_20	IAMS_20	19 10	15.6		
D20K	Etiuvik River	85.27	13	IAMS_20	IAMS_20	19 01	37.8		
V35K	Ketchikan	85.27	30	IAMS_20	IAMS_20	19 04	07.9		
G23K	Bananza Creek	85.32	16	Iamb	Iamb	18 27	35.8		
G23K				IAMS_20	IAMS_20	18 59	46.3		
L27K	Beaver Creek	85.35	21	IAMS_20	IAMS_20	18 59	45.4		
PASC	Pasadena Art C	85.44	54	IAMS_20	IAMS_20	19 04	27.9		
TRF2	Eaglecrest	85.44	27	IAMS_20	IAMS_20	19 08	47.9		
BBB	Bella Bella	85.61	34	LR	LR	19 02	39.0		
E21K	Killik River	85.65	14	Iamb	Iamb	18 27	03.8	-0.4	
E21K				P	P	18 27	43.8		
COLD	Coldfoot	85.66	16	IAMS_20	IAMS_20	19 01	14.1		
BEKR	Beckworth	85.67	48	P	P	18 27 06.0	+0.9		
BEKR				Iamb	Iamb	18 27	21.9		
J26L	Joseph Creek	85.70	20	IAMS_20	IAMS_20	18 59	32.4		
E22K	Anaktuvuk Pass	85.93	15	IAMS_20	IAMS_20	19 00	30.2		
G24K	Hadweencin Riv	86.02	17	Iamb	Iamb	18 27	40.6		
NLWA	Nellon Lookou	86.08	40	IAMS_20	IAMS_20	19 00	39.9		
N30M	Aishikik Lake	86.14	24	IAMS_20	IAMS_20	19 00	00.5		
O30N	Mendallin	86.15	25	IAMS_20	IAMS_20	19 08	04.7		
M29M	Somme Creek	86.19	23	IAMS_20	IAMS_20	19 00	05.7		
B20K	Meadie River	86.21	12	IAMS_20	IAMS_20	19 00	49.5		
J05D	Fort Rock, OR	86.25	44	Iamb	Iamb	18 27	29.3		
D22K	Aiyikyak River	86.29	14	Iamb	Iamb	18 27	45.6		
D22K				IAMS_20	IAMS_20	19 01	43.7		
U35K	Hyder	86.35	30	IAMS_20	IAMS_20	19 04	24.3		
I26K	Coal Creek Min	86.36	19	IAMS_20	IAMS_20	19 00	03.9		
E23K	Chandalar	86.42	15	Iamb	Iamb	18 27	37.2		
E23K				IAMS_20	IAMS_20	19 01	07.3		
B21K	Ikpiupik River	86.43	13	Iamb	Iamb	18 27	41.1		
B21K				IAMS_20	IAMS_20	19 02	07.4		
F24K	Squaw Lake	86.49	16	P	P	18 27 07.5	-0.9		
P32M	Atlin	86.50	26	IAMS_20	IAMS_20	18 59	42.0		
FYU	Fort Yukon	86.57	17	IAMS_20	IAMS_20	19 01	19.3		
PFO	Pinyon Flats O	86.65	53	LR	LR	18 57	49.3		
EVN	Everest	86.63	299	Iamb	Iamb	18 27 08.5	-2.2		
EVN				P	P	18 27	18.2		
N31M	Braeburn, Yuko	86.67	24	IAMS_20	IAMS_20	19 08	25.6		
NVAR	Mina Aray Bea	86.70	50	P	P	18 27 09.3	-1.0		
NVAR				comp=Z,0.4nm,0.6s,baz=243,slow=9.3,SNR=5.3	LR	19 02	06.1		
L29M	comp=Z,2.1nm,18.1s,baz=253,slow=33	86.71	22	IAMS_20	IAMS_20	19 00	53.4		
E24K	Your Creek	86.73	16	IAMS_20	IAMS_20	19 01	46.4		
T35M	Bob Omm	86.75	29	IAMS_20	IAMS_20	19 10	23.0		
D23K	Nanushuk River	86.83	14	Iamb	Iamb	18 27	38.9		
TOLK	Toolik Lake	86.86	15	IAMS_20	IAMS_20	19 02	11.9		
M30M	Minto, Yukon	86.90	23	IAMS_20	IAMS_20	18 59	36.4		
GMN	Gold Mountain	87.13	51	P	P	18 27 10.9	-1.5		
F25K	Christian River	87.16	17	IAMS_20	IAMS_20	19 00	52.8		
P33M	Teslin, Yukon	87.21	26	IAMS_20	IAMS_20	19 07	40.8		
B22K	Tshekupuk Lake	87.25	13	IAMS_20	IAMS_20	19 03	24.1		
G26K	Porcupine Rive	87.25	18	Iamb	Iamb	18 28	02.0		
G26K				IAMS_20	IAMS_20	19 01	47.4		
D24K	Happy Valley	87.42	15	IAMS_20	IAMS_20	19 02	31.7		
H27K	Steamboat Moun	87.47	19	IAMS_20	IAMS_20	19 01	52.3		
J29N	Klondike Camp	87.47	21	IAMS_20	IAMS_20	18 59	58.5		
J29N				IAMS_20	IAMS_20	19 01	33.6		
E25K	Arctic Village	87.54	16	IAMS_20	IAMS_20	19 02	52.9		
DLBC	Dease Lake	87.56	28	LR	LR	19 01	58.9		
N32M	Quiet Lake	87.59	25	IAMS_20	IAMS_20	19 07	13.8		
M31M	Drury Creek, Y	87.62	24	IAMS_20	IAMS_20	19 08	31.6		
F26K	Sheenjek River	87.65	17	IAMS_20	IAMS_20	19 01	15.8		
TIXI	Tiksi	87.66	349	LR					

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like SUSD Miller, Z35A Perchaven, KSU1 Kansas State, etc.

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like KBZ Khabaz, KBZ Khabaz, VSR Storozev, etc.

Table with columns: Call sign, Name, Frequency, Power, Mode, and other technical details. Includes stations like UPCC Ulice, SURR Surduc, JAVC Belka, etc.

Table with columns: PBRG, DFRA, PGAV, CABRIL, etc. Includes station names, coordinates, and various codes.

ISK 28:18:27.27, 39:97N, 39:89E, h5km, ML3.8/14
TFK 28:18:27.27, 39:95N, 39:90E, h18km
AFAD 28:18:27.28, 39:93N, 39:89E, h7km, 1km, MW3.7

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like EUZM, ERZINCAN, BAYBURT, etc.

ISC 28:18:27.27, 1.39, 39.91E, 0.02, 39.91E, 0.02, h3km, 9km, n49, a=1517/67, Turkey

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DAVAO CITY, DAVAO CITY, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KARBAS, KARBAS, etc.

Table with columns: SEV, AKASG, AKTO, FINES, TORO. Includes station names and coordinates.

IDC 28:18:40:24.9, 4.0, 4.78S, 152.70E, h0km, mb3.7/5, mbtm3.7/5, Error ellipse: s-maj=121.0km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WRA, ASAR, FITZ, MKAR, KURBB, etc.

AEIC 28:18:41.40, 6.1, 8.53, 73N, 0.0, 163.99W, 0.04, h8km, 7km, Error ellipse: s-maj=6.3km s-min=1.1km az=148.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WESE, WECS, WEBT, etc.

IDC 28:18:46:13.8, 1.6, 33.20N, 133.54E, h0km, mb3.4/3, mbtm3.3/5, ML2.5/2, MS4.2/1, Error ellipse: s-maj=27.7km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JKHK, JKHR, JKU, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KSRS, KURBB, LEM, BVAR, WRA, etc.

Table with columns: HUMP, HUMP, HUMP, GCRP, PDRP, etc. Includes station names and coordinates.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WRA, ASAR, FITZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BIM, SVN, SLBI, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WESE, WECS, WEBT, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DAVAO CITY, DAVAO CITY, etc.

IDC 28:19:13:50.6, 0.8, 8.30N, 126.62E, h0km, mb4.0/13, mbtm4.0/13, MS3.9/2, Error ellipse: s-maj=31.8km

ISC 28:19:13:55.9, 0.6, 8.22N, 0.07, 126.8E, 0.1, h46km, n36, a=1936/37, mb3.4/19, Mindanao

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like DAVAO CITY, DAVAO CITY, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KSRS, KURBB, LEM, BVAR, WRA, etc.

28d 20h

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like BRVK Borovoye, NRIK Nori'ski, M16K Timber Creek, etc.

ADC 28 19:24:53.15, 5.16, 16.02Sx173.98W, h0km, mb3.9/3, mbtmp3.9/3, MS3.4/2, Error ellipse: s-maj=214.0km s-min=60.3km az=135.0, Tonga Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like RAR Rarotonga, URZ Urewera, STKA Stephens Creek, etc.

ADC 28 19:28:35.6, 0.9, 42.88N;141.53E, h146km, 10km, mb3.5/11, mbtmp3.8/13, Error ellipse: s-maj=20.2km s-min=14.3km az=96.0

JMA 28 19:28:35.2, 0.1, 42.89N;05.141.3E, 0.6, h133km, 1km, MW3.2/35, IUBURI REGION

ISC 28 19:28:34.8, 0.7, 42.78N;00.05:141.37E, 0.05, h138km, 6km, n34, c075/46, mb3.5/11, Hokkaido region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like JEW Eniwo, JNB Nboribetsu, JIAM Iburiatsuma, etc.

H1S1 WAKE ISLAND Hy 32.33 131 T 20 07 53.5

H1S3 WAKE ISLAND Hy 32.33 131 T 20 07 54.6

H1S2 WAKE ISLAND Hy 32.35 131 T 20 07 56.6

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like ZALV Zalesovo Beam, MKAR Makanchi Array, etc.

ADC 28 19:31:27.1, 2.2, 0.79S; 127.64E, h0km, mb3.1/3, mbtmp3.2/3, Error ellipse: s-maj=156.6km s-min=28.5km az=67.0, Halmaera

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, etc.

WEL 28 19:39:47.9, 1.2, 33.5S; 107.19W, 1.8, h12km, M3.8/8, mB4.4/6, ML4.2/11, MLv4.0/8, Mw(mB)3.6/6, Error ellipse: s-maj=25.7km s-min=8.0km az=112.8, confirmed, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like WMGZ Waomatitini S, WMGZ Pakhiroa, etc.

2019 JUN

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like PKGZ Te Kaha, HAZ Puketiti, etc.

ADC 28 19:47:01.0, 4.3, 17.87S;178.09W, h578km, 27km, mb3.5/4, mbtmp4.4/5, Error ellipse: s-maj=122.0km s-min=27.9km

NEIC 28 19:47:01.0, 1.0, 18.0S;0.2:178.1W, 0.2, h571km, 6km, mb4.4/20, Error ellipse: s-maj=24.1km s-min=21.6km az=125.0

ISC 28 19:47:02.0, 1.1, 17.9S;0.1:178.2W, 0.2, h590km, n27, c080/28, mb4.3/13, Fiji Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like MSVF Nonsavu, DZM Mont Dumuzet, etc.

ADC 28 19:47:02.0, 1.1, 17.9S;0.1:178.2W, 0.2, h590km, n27, c080/28, mb4.3/13, Fiji Islands

ISC 28 20:01:48.8, 1.0, 8.35N;82.85W, h30km, 1km, MW4.1, Fault plane solution: NPT;285.08000, 885.79000, lambda=67.000

CATAC 28 20:01:49.7, 0.8, 8.35N;82.85W, h16km, 2km, M4.2/11, MLv4.2/11, Error ellipse: s-maj=11.6km s-min=5.4km az=159.2, confirmed

UPA 28 20:01:49.4, 1.0, 8.39N;82.84W, h26km, 3km, MW4.0, Fault plane solution: NPT;24.00000, 858.00000, lambda=179.00000

ISC 28 20:01:49.0, 1.0, 8.38N;0.02:82.85W, 0.02, h33km, 2km, n111, c089/153, 17C-27D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like LESP3 La Esperanza, LIMO3 Limones, etc.

MOS 28 20:01:43.2, 41.21N;45.87E, h21km, MPVA3.6

AZB 28 20:01:44.2, 41.25N;45.84E, h16km, ml2.6

BRUK 28 20:01:45.6, 41.27N;45.85E, h12km, MPVA3.5

NDS 28 20:01:47.4, 41.29N;45.87E, h54km

ISC 28 20:01:45.2, 1.0, 41.29N;0.02:45.66E, 0.02, h16km, 9km, n46, c150/91, Eastern Caucasus

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like QZX Gazax, GDB GEDABAY, etc.

1848

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like SBZ Shahbuz, VLKR Vladikavkaz, etc.

ADC 28 20:01:48.8, 1.0, 8.35N;82.85W, h30km, 1km, MW4.1, Fault plane solution: NPT;285.08000, 885.79000, lambda=67.000

CATAC 28 20:01:49.7, 0.8, 8.35N;82.85W, h16km, 2km, M4.2/11, MLv4.2/11, Error ellipse: s-maj=11.6km s-min=5.4km az=159.2, confirmed

UPA 28 20:01:49.4, 1.0, 8.39N;82.84W, h26km, 3km, MW4.0, Fault plane solution: NPT;24.00000, 858.00000, lambda=179.00000

ISC 28 20:01:49.0, 1.0, 8.38N;0.02:82.85W, 0.02, h33km, 2km, n111, c089/153, 17C-27D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Op, ISC, h, m, s, Res, ISC. Includes stations like LESP3 La Esperanza, LIMO3 Limones, etc.



28d 20h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TSKL, LK02, KNT, etc.

IDC 28 20:26:18.6:0.0, 30.66S:177.60W, h0km, mb4.1/8, mbtmp4.2/9, ML4.1/1, MS3.4/1, Error ellipse: s-maj=27.1km s-min=17.9km az=94.0

NEIC 28 20:26:20.7:1.0, 30.55S:0.09:178.7W:0.2, h14km, 5km, mb4.0/12, Error ellipse: s-maj=23.4km s-min=9.8km az=115.0

ISC 28 20:26:19.5:0.6, 30.74S:0.06:177.7W:0.2, h10km, n47, s168/41, mb4.4/12, 3C-ID, Kermadec Islands region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like RAO, RAOI, RAOIS, etc.

ARM A Armadale 26.40 263 P Iamb P 20 31 48.6 -7.7

CTAO C Stephens Tower 34.14 279 P P 20 32 56.5 -8.2

CTAO S Stephens Creek 34.68 257 P P 20 33 02.5 -7.0

CTAO S Stephens Creek 34.68 257 P P 20 33 11.0 +1.6

BBOO Buckleboo 39.15 255 P P 20 33 40.1 -7.3

AS31 Alice Springs 43.38 267 P P 20 34 14.3 -8.0

ASAR Alice Springs 43.38 267 P P 20 34 23.5 +1.2

ASAR Alice Springs 43.38 267 P P 20 34 23.5 +1.2

ASAR Alice Springs 43.38 267 P P 20 34 23.5 +1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

WR8 Warramunga Arr 44.25 272 P P 20 34 17.5 -1.2

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WR8, WBO, WRAB, etc.

ASAR Alice Springs 29.36 239 P P 20 34 15.2 -0.3

TOO Toolangi 30.75 205 P P 20 34 29.0 +1.3

BKZ Black Stump Fm 31.88 157 P P 20 34 37.7 +0.2

KNRA Kununurra 32.16 257 P Iamb Iamb 20 34 40.8 +0.6

BBOO Buckleboo 32.36 222 P P 20 34 42.4 +0.6

FITZ Fitzroy Crossi 35.41 253 P P 20 35 08.5 +0.1

FITZ Fitzroy Crossi 35.41 253 P P 20 35 07.8 -0.6

PSA00 Pilbara Seismi 41.32 249 P P 20 35 57.7 -0.3

MORW Morawa 46.25 239 P P 20 36 37.3 -0.1

JMJ Miyako jima 2 49.44 315 P P 20 37 05.7 +3.7

JGJ Kuroka 50.86 335 P P 20 37 10.6 -2.0

IMJAR Matsushiro Arr 51.32 336 P Iamb Iamb 20 37 13.6 -2.4

IMJAR Matsushiro Arr 51.32 336 P Iamb Iamb 20 37 16.7 +0.7

YULB Yu-lu 51.48 311 P P 20 37 14.6 -2.5

TPUB Ta-pu 51.88 310 P P 20 37 23.0 +2.5

SSC Suanglung 51.92 311 P P 20 37 15.7 -5.1

YHNB Yeheng 52.13 312 P P 20 37 07.9 -1.4

GSJ Gongshitoli 64.43 278 P P 20 38 47.8 -0.2

SONM Songino Array 75.44 325 P P 20 39 55.6 +0.4

SONM Songino Array 75.44 325 P P 20 39 55.6 +0.4

M16K Timber Creek 77.58 19 P P 20 40 06.9 +0.1

M16K Timber Creek 77.58 19 P P 20 40 22.9

J17K VABM Dome 79.38 17 P Iamb Iamb 20 40 17.3 +0.6

J17K VABM Dome 79.38 17 P Iamb Iamb 20 40 27.2

L19K White Mountain 79.76 19 P Iamb Iamb 20 40 19.1 +0.3

L19K White Mountain 79.76 19 P Iamb Iamb 20 40 20.4

QSPA South Pole Qui 79.80 18 P Iamb Iamb 20 40 18.6 -0.6

1850

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like PB01, GO01, etc.

GO01 Chuzmiza 0.76 357 eP Pn 20 50 19.1 -0.5

GO01 Chuzmiza 0.76 357 eP Pn 20 50 33.0 -0.4

GO01 Chuzmiza 0.76 357 eP Pn 20 50 19.3 -0.3

GO01 Chuzmiza 0.76 357 eP Pn 20 50 33.9 +0.5

GO01 Chuzmiza 0.76 357 eP Pn 20 50 35.1

PB11 IPOC Station P 0.82 324 i/P Pn 20 50 19.5 -0.4

PB11 IPOC Station P 0.82 324 eS Pn 20 50 33.6 -0.2

PB11 IPOC Station P 0.82 324 eS Pn 20 50 34.2

PB11 IPOC Station P 0.82 324 eS Pn 20 50 19.4 -0.4

PB11 IPOC Station P 0.82 324 eS Pn 20 50 34.1 +0.2

PB11 IPOC Station P 0.82 324 eS Pn 20 50 35.4

TA02 Huaiquique 0.94 280 eP Pn 20 50 20.6 -0.2

TA02 Huaiquique 0.94 280 eP Pn 20 50 20.7 +0.2

TA02 Huaiquique 0.94 280 eS Pn 20 50 36.7 +1.0

TA02 Huaiquique 0.94 280 eS Pn 20 50 42.0

TA01 Diego Aracena 0.98 262 i/P Pn 20 50 20.9 -0.4

TA01 Diego Aracena 0.98 262 eS Pn 20 50 36.2 -0.3

TA01 Diego Aracena 0.98 262 eS Pn 20 50 37.0

TA01 Diego Aracena 0.98 262 eS Pn 20 50 20.9 -0.4

TA01 Diego Aracena 0.98 262 eS Pn 20 50 36.9 +0.4

TA01 Diego Aracena 0.98 262 eS Pn 20 50 37.8

PB09 IPOC Station P 1.36 184 eP Pn 20 50 25.9 0.0

PB09 IPOC Station P 1.36 184 eS Pn 20 50 45.2 +0.6

PB09 IPOC Station P 1.36 184 eS Pn 20 50 25.3 -0.6

PB09 IPOC Station P 1.36 184 eS Pn 20 50 46.2 +1.6

PB09 IPOC Station P 1.36 184 eS Pn 20 50 46.4

PB16 IPOC Station P 2.11 351 i/P Pn 20 51 03.8 +1.1

PB16 IPOC Station P 2.11 351 eS Pn 20 51 36.5 +1.5

PB16 IPOC Station P 2.11 351 eS Pn 20 50 36.5 +0.9

PB16 IPOC Station P 2.11 351 eS Pn 20 50 36.9

PB16 IPOC Station P 2.11 351 eS Pn 20 51 01.0 -1.0

PB16 IPOC Station P 2.11 351 eS Pn 20 50 37.6 -0.2

PB16 IPOC Station P 2.11 351 eS Pn 20 51 06.5 +0.7

PB16 IPOC Station P 2.11 351 eS Pn 20 51 12.5

PB05 IPOC Station P 2.60 202 eP Pn 20 50 41.7 0.0

PB05 IPOC Station P 2.60 202 eS Pn 20 51 01.5 -1.1

PB05 IPOC Station P 2.60 202 eS Pn 20 51 21.5

comp=Z,140nm,0.6s

IDC 28 20:50:7.0:0.8, 18.71N:145.63E, h200km, 7km, mb3.4/14, mbtmp3.9/16, MS3.5/1, Error ellipse: s-maj=19.2km s-min=11.3km az=86.0

NEIC 28 20:58:52.1:2.3, 18.54N:0.07:145.7E:0.2, h210km, 7km, mb4.3/29, Error ellipse: s-maj=21.6km s-min=10.3km az=85.0

ISC 28 20:58:50.6:0.5, 18.57N:0.05:145.7E:0.1, h200km, n52, s192/27, mb4.0/12, 3C-ID, Mariana Islands region

GUMO Guam 5.01 189 P P 21 01 04.3 -0.9

GUMO Guam 5.01 189 P P 21 01 04.2 +0.1

GUMO Guam 5.01 189 P P 21 01 08.7 +3.5

GUMO Guam 5.01 189 P P 21 01 05.0 +0.9

JCJ Chichijima 9.07 340 Pn Pn 21 02 02.4 +4.7

INU Inuyama 19.39 337 P Iamb Iamb 21 01 50.1 -0.5

INU Inuyama 19.39 337 P Iamb Iamb 21 02 52.7

JGF Kuroka 18.49 338 P Iamb Iamb 21 02 52.2 +0.5

JGF Kuroka 18.49 338 P Iamb Iamb 21 03 21.4

IMJAR Matsushiro Arr 19.07 341 P P 21 02 57.9 0.0

SSLB Suanglung 23.61 287 P Iamb Iamb 21 03 44.4 +0.8

SSLB Suanglung 23.61 287 P Iamb Iamb 21 03 57.5

KSRS Kamikawa-asahi 25.60 355 P Iamb Iamb 21 04 01.8 +0.5

JKA Kamikawa-asahi 25.60 355 P Iamb Iamb 21 04 11.2

HNR Honiara 31.19 152 LR LR 21 15 59.2

COEN Coen 32.42 185 P P 21 05 02.0 +0.1

MTN Manton Dam 34.35 206 P Iamb Iamb 21 05 01.1 +0.5

SOEI Soe 35.19 219 P P 21 05 24.7 -1.2

KNRA Kununurra 37.89 207 P Iamb Iamb 21 05 49.5 +0.9

WR8 Warramunga Arr 39.83 197 P P 21 06 04.7 +0.1

WR8 Warramunga Arr 39.83 197 P Iamb Iamb 21 06 34.4

WRA Warramunga Arr 39.86 197 P P 21 06 05.1 +0.2

WRA Warramunga Arr 39.86 197 P P 21 06 05.3 +0.4

FITZ Fitzroy Crossi 41.42 210 P P 21 06 18.6 +0.9

SONM Songino Array 43.22 321 P P 21 06 30.7 -1.4

AS31 Alice Springs 43.52 196 P P 21 06 34.2 -0.4

ASAR Alice Springs 43.52 196 P P 21 06 34.5 -0.1

ASAR Alice Springs 43.52 196 P P 21 06 35.5 +0.8

CMAR Chiang Mai Arr 44.21 278 P P 21 06 40.3 +0.1

DZM Mont Dzumac 45.22 152 P P 21 06 49.0 +0.9

ARMA Marble Bar 46.95 214 P P 21 07 01.8 +0.3

PSA00 Pilbara Seismi 47.23 214 P P 21 07 03.5 -0.3

ARMA Armadale 49.04 173 P Iamb Iamb 21 07 16.8 -0.8

ARMA Armadale 49.04 173 P Iamb Iamb 21 07 29.3

FORT Forrest 51.91 199 P P 21 07 37.7 -1.1

MORW Morawa 55.33 212 P P 21 08 03.4 -0.3

O15K Ungalikthiur R 56.29 30 P P 21 08 11.0 +0.9

O15K Ungalikthiur R 56.29 30 P Iamb Iamb 21 08 24.9

N15K Kwethiur River 56.54 29 P Iamb Iamb 21 08 13.1 +1.1

N15K Kwethiur River 56.54 29 P Iamb Iamb 21 08 55.7

ZALV Zalesovo Beam 58.10 323 P P 21 08 21.8 -1.1

MKAR Makanchi Arr 58.53 314 P P 21 08 25.8 -0.3

MKAR Makanchi Arr 58.53 314 P P 21 08 26.3 +0.2

MAK2 Makanchi Arr 58.74 314 P P 21 08 27.2 -0.4

H18K Honhosia River 59.25 24 P Iamb Iamb 21 08 31.1 +0.4

H18K Honhosia River 59.25 24 P Iamb Iamb 21 09 15.2

H19K Roundabout Mo 60.14 24 P Iamb Iamb 21 08 38.9 +2.2

H19K Roundabout Mo 60.14 24 P Iamb Iamb 21 08 47.9

D20K Etivluk River 61.33 21 P P 21 08 45.8 +0.8

KURBB Kurchatov Arr 61.39 318 P P 21 08 44.7 -0.7

KURBB Kurchatov Arr 61.39 318 P P 21 09 30.6 +0.4

NR1K Nori'sk 61.72 340 P Iamb Iamb 21 08 47.0 -0.2

NR1K Nori'sk 61.72 340 P Iamb Iamb 21 08 47.4

D22K Ayikyak River 62.72 21 P Iamb Iamb 21 08 55.2 +1.2

D22K Ayikyak River 62.72 21 P Iamb Iamb 21 09 12.7

ILAR Eielson Array 63.77 26 P P 21 09 00.6 -0.3

ILAR Eielson Array 63.77 26 P P 21 09 45.9 -0.3

PCA Pinnacle 66.15 32 P P 21 09 14.5 -1.9

PCA Pinnacle 66.15 32 P P 21 09 44.0 -1.0

JMA 28 20:36:32.6:0.3, 25.12N:123.55E:0.8, h154km, 3km, MV3.3/17, NW OFF ISHIGAKI JMA IS, Northeast of Taiwan

YOJ Yonaguni jima 0.79 211 P P 20 36 56.1 0.0

YOJ Yonaguni jima 0.79 211 eS Pn 20 37 14.5 +0.4

JYF Yonaguni jima 0.83 217 P P 20 36 56.4 -0.2

JISG Ishigakijima 0.96 125 P Pn 20 36 57.3 -0.1

JISG Ishigakijima 0.96 125 P Pn 20 37 16.0 -0.3

JJI Ishigaki jima 1.00 141 P Pn 20 36 57.7 -0.1

JJKRS Kuro-shima 1.03 150 P Pn 20 37 16.3 -0.7

JJKRS Kuro-shima 1.03 150 P Pn 20 36 58.4 +0.4

HATJ Hateruma jima 1.13 163 eP Pn 20 37 17.8 +0.3

HATJ Hateruma jima 1.13 163 eS Pn 20 36 59.4 +0.5

JTJ Tarama 1.24 113 eP Pn 20 37 19.5 +0.5

JTJ Tarama 1.24 113 eS Pn 20 37 00.3 +0.4

JIRB Irabujima 1.59 101 eS Pn 20 37 21.4 +0.6

JIRB Irabujima 1.59 101 eS Pn 20 37 03.3 -0.2

JIKM Ikemajima 1.65 97 eS Pn 20 37 26.8 -0.3

JIKM Ikemajima 1.65 97 eS Pn 20 37 04.3 +0.3

JIMJ Miyako jima3 1.75 103 eS Pn 20 37 29.5 +1.4

JIMJ Miyako jima3 1.75 103 eS Pn 20 37 00.4 +0.4

TATO Taipei 1.79 265 P Pn 2



Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like BVAR Borovoye Array, BRVK Borovoye, AB31 Akbulak array, etc.

IDC 28 20:59:58.4:1.2, 30:20:5:179:09W, h0km, mb4.5/4,5, mbmp4.4/6, ML4.0/1, MS3.9/10, Error ellipse: s-maj=36.8km s-min=26.5km az=51.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like GLKZ Green Lake, RAO Raoul Island, RAO Raoul Island, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like URZ Urewera, KMRZ Kaimai, TOZ Tahuroa Road, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like BBOO Buckleboob, ASAR Alfordia, WRB Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like FORT Forrest, FITZ Fitzroy Crossi, GUMO Guam, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like BVAR Borovoye Array, VNA3 Neumayer Olymp, VNA2 Neumayer-Watz, etc.

IDC 28 21:12:53.1:3.7, 29:69:5:178:05W, h0km, mb4.5/4, mbmp4.4/5, ML3.8/1, Error ellipse: s-maj=82.9km s-min=31.1km az=44.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like GLKZ Green Lake, PKGZ Pakihiroa, PUKZ Puketiti, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like TKGZ Waipua Caves, WWC Waipua Caves, MWZ Matawai, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like URZ Urewera, URZ Urewera, RIGZ Rimuhau, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, WRA Warramunga Arr, GSPA South Pole Qui, etc.

IDC 28 21:17:49.8:7.3, 18:30N:144.76E, h0km, mb3.6/5, mbmt3.6/5, Error ellipse: s-maj=297.3km s-min=25.7km az=79.0, Mariana Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like WRA Warramunga Arr, ASAR Alfordia, MKAR Makanchi Array, etc.

GCG 28 21:17:57.9:0.7, 13:16N:88:28W, h237km, 21km, MD3.8, CATAC 28 21:18:05.0:1.2, 13:16N:13:8:9W, h191km, 11km, M2.9/9, MLV2:9/9, Error ellipse: s-maj=30.5km s-min=7.3km az=26.5, confirmed

IDC 28 21:18:01.1:3.8, 13:4N:0:2:88:5W:0:1, h231km, 26km, n16, f=147/19, El Salvador

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like PACA Pacayal, TCO Alcala de Te, SCLA Alcala de Sa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like NNC 28 21:31:50.4:10.0, 36:94N:70:14E, h0km, mb4.0, mpv3.7, HRFI Mount Harif, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like PARAL Paralimni, PARAL Paralimni, PARAL Paralimni, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like LAR1C Laraka City C, MVOU Mavrovouni, MVOU Mavrovouni, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like ASGA Asgata, EREN Erenkoy, EREN Erenkoy, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like ALFC Alfa, ALFC Alfa, ALFC Alfa, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like TISA Tisan-Mersin, AKMS Akamas, AKMS Akamas, etc.

IDC 28 21:46:14.6:2.0, 16:06N:93:62W, h0km, mb3.9/8, mbmp3.8/9, ML3.5/1, MS3.4/3, Error ellipse: s-maj=58.4km s-min=13.4km az=33.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time Res, ISC. Includes stations like PCIG Huatulco, HUIG Huatulco, HUIG Huatulco, etc.



Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Waingapu, Ende, Flores, Singaraja, Maumuru, Jajag, Banyuwya, Gumukmas, etc.

IDC 28 22:21:30.9, 0.7, 2.57S: 138.51E, h0km, mb4.0/9, mbmp4.1/12, ML3.9/3, MS3.8/3, Error ellipse: s-maj=17.7km s-min=15.9km az=19.0

NEIC 28 22:21:33.5, 1.4, 2.65S: 0.1x138.57E: 0.06, h10km, 1km, mb4.4/60, Error ellipse: s-maj=17.5km s-min=9.0km az=163.0

DJA 28 22:21:33.6, 0.4, 3.54: 13.9E, h10km, M4.4/7, mb4.4/2, ML4.4/7

ISC 28 22:21:32.7, 0.5, 2.70S: 0.05x138.50E: 0.06, h10km, n90, r+130/93, mb4.4/38, Irian Jaya

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Sarmi, Genyem, Jayapura, Warramunga Arr, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Tukpahleark C, Uluok River, Styx River, Novinta River, etc.

IDC 28 22:29:10.8, 0.6, 8.42N: 126.84E, h0km, mb4.3/19, mbmp4.3/20, ML4.8/1, MS3.4/5, Error ellipse: s-maj=26.4km s-min=12.2km az=83.0

NEIC 28 22:29:18.8, 1.2, 8.64N: 0.09x126.7E: 0.1, h35km, 2km, mb4.5/64, Error ellipse: s-maj=19.2km s-min=15.2km az=102.0

ISC 28 22:29:17.6, 0.5, 8.60N: 0.06x126.70E: 0.10, h35km, n101, r+139/98, mb4.5/55, MS3.6/3, Mindanao

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Davao City (W), Davao City (E), Tagay City, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, h, m, s, ISC. Includes stations like Gaotai, Everest, Ulanbaatar, Stephens Creek, etc.

28d 23h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like HFS Hagfors, NOA NORSTAR Array B, YKA Yellowknife Ar.

IDC 28 22:30:36.0±1.7, 37.635±176.95E, h0km, mb3.8/3, mbmp3.8/3, Error ellipse: s-maj=59.1km s-min=32.5km az=51.0

NOU 28 22:30:57.7, 38.775±175.85E, h146km, MLV4.0/21, North Island, New Zealand

WEL 28 22:30:59.8±1.0, 39.56±17.6E±, h132km, 8km, M3.6/96, ML3.2/24, MLV3.6/96, Error ellipse: s-maj=11.2km s-min=6.9km az=119.6, confirmed

ISC 28 22:30:57.7±0.8, 38.700±175.82E±0.04, h158km, 5km, n157, c0889/163, mb3.6/3, North Island

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists numerous stations like WATZ Wairara, WHZT Whakaoara, etc.

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Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like CAW Cannon Point, DUWZ D'Urville Isla, PAWZ Paruru Farm, etc.

WRA Warramunga Arr 40.30 286 P 22 38 19.9 +0.3

GSPA South Pole Qui 51.43 190 P 22 39 50.6 +4.3

KURBB Kurchatov Arr 122.90 311 PKP 22 49 31.8 -2.5

FINES FINESSE Array B 150.56 330 PKPbc 22 50 28.2 -1.4

STR 28 23:03:02.5±1.0, 43°N±5'×1°11'E±, h10km, MLV3.6/25, Error ellipse: s-maj=0.0km s-min=0.0km az=119.5, preliminary

ROM 28 23:03:05.8±1.1, 43.428N±0.004±11.115E±0.006, h8km, ML3.1/160, Error ellipse: s-maj=0.4km s-min=0.3km az=232.0

LDG 28 23:03:05.8±0.2, 43.46N±11.09E, h8km, M13.1/15, Error ellipse: s-maj=3.6km s-min=3.4km az=18.0

NEIC 28 23:03:06.1±1.3, 43.44N±0.04±11.14E±0.06, h10km, 7km, ML2.9/40, Error ellipse: s-maj=8.2km s-min=1.5km az=47.0

PRU 28 23:03:10.2, 44°01'N, 10°17'E, h0km

IDC 28 23:03:14.7±3.4, 44°21'N±11.53E, h0km, mb3.1/1, mbmp3.4/4, ML2.9/3, MS2.5/4, Error ellipse: s-maj=42.7km s-min=23.5km az=55.0

ISC 28 23:03:05.6±0.8, 43.42N±0.01±11.11E±0.01, h9km, 5km, n268, c1552/342, 8C, Central Italy

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists numerous stations like CSNT Castellina Chi, OSSC Osservatorio P, etc.

1854

Main station list table with columns: Code, Station Name, Az, Phase ID, Time, Res. Lists numerous stations like ARCI comp=N,2842µm,0.5s, ARCI comp=N,2970µm,0.5s, etc.

1855

CARD	comp=N,3876µm,0.4s	AML	AML						
SF14	Selvena	0.76 150	↑P	Pg	23 03 20.4	+0.2			
SSP9	Sansepolcro	0.76 78	P	Pb	23 03 20.9	-0.1			
SSP9	comp=E,2985µm,1.6s	AML	AML						
SSP9	comp=N,3165µm,1.5s	AML	AML						
SSP9	comp=E,2985µm,0.4s	AML	AML						
SSP9	comp=E,2592µm,0.7s	AML	AML						
SSP9	comp=N,2993µm,1.3s	AML	AML						
BRIS	BRISIGHELLA	0.79 22	P	Pn	23 03 24.0	+1.2			
BRIS	comp=N,1540µm,1.6s	AML	AML						
BRIS	comp=N,1550µm,1.5s	AML	AML						
BRIS	comp=N,1550µm,0.5s	AML	AML						
BRIS	comp=N,1540µm,0.4s	AML	AML						
BRIS	comp=E,1750µm,0.5s	AML	AML						
BRIS	comp=E,1595µm,0.6s	AML	AML						
BRIS	comp=N,2065µm,0.5s	AML	AML						
BRIS	comp=E,2248µm,0.5s	AML	AML						
BRIS	comp=E,2356µm,0.7s	AML	AML						
BRIS	comp=N,2060µm,0.5s	AML	AML						
LMD	Lutirano	0.79 33	P	Pg	23 03 20.9	0.0			
LMD	Lutirano	0.79 33	S	Sb	23 03 32.1	-0.2			
LMD	Lutirano	0.79 33	P	Pb	23 03 21.0	-0.5			
LMD	comp=E,1475µm,0.4s	AML	AML						
LMD	comp=E,2590µm,0.4s	AML	AML						
LMD	comp=N,2205µm,0.2s	AML	AML						
LMD	comp=E,3218µm,0.5s	AML	AML						
LMD	comp=N,2795µm,0.7s	AML	AML						
ATMC	Monte Cedrone	0.79 88	P	Pg	23 03 21.2	+0.3			
SACS	San Casciano d.	0.82 134	P	Pg	23 03 21.5	+0.1			
SACS	comp=E,481µm,0.6s	AML	AML						
SACS	comp=N,400µm,1.5s	AML	AML						
SACS	comp=E,481µm,1.4s	AML	AML						
SACS	comp=N,400µm,0.5s	AML	AML						
SACS	comp=E,481µm,0.6s	AML	AML						
SACS	comp=N,382µm,0.8s	AML	AML						
SACS	comp=E,528µm,0.6s	AML	AML						
SACS	comp=N,451µm,0.8s	AML	AML						
BADI	Badiali	0.84 83	P	Pg	23 03 21.9	+0.2			
BADI	comp=E,1645µm,0.8s	AML	AML						
BADI	comp=N,1610µm,0.7s	AML	AML						
BADI	comp=E,1640µm,0.8s	AML	AML						
BADI	comp=E,1640µm,1.2s	AML	AML						
BADI	comp=N,1610µm,0.7s	AML	AML						
BADI	comp=E,1641µm,0.8s	AML	AML						
ATMI	Monte Miggianno	0.85 95	P	Pg	23 03 22.0	0.0			
ATMI	comp=N,3215µm,0.6s	AML	AML						
ATMI	comp=E,2510µm,0.5s	AML	AML						
ATMI	comp=E,2510µm,0.5s	AML	AML						
ATMI	comp=N,3217µm,0.6s	AML	AML						
PARC	Parchiule	0.86 74	P	Pb	23 03 22.4	-0.3			
PARC	comp=E,1730µm,0.6s	AML	AML						
PARC	comp=N,2030µm,1.0s	AML	AML						
PARC	comp=E,1730µm,1.4s	AML	AML						
PARC	comp=N,1882µm,0.5s	AML	AML						
PARC	comp=E,1727µm,0.6s	AML	AML						
MGAB	Montegabbione	0.90 124	P	Pg	23 03 23.0	+0.2			
MGAB	comp=E,575µm,0.5s	AML	AML						
MGAB	comp=N,636µm,1.4s	AML	AML						
MGAB	comp=N,658µm,1.5s	AML	AML						
MGAB	comp=E,616µm,0.5s	AML	AML						
MGAB	comp=E,575µm,0.5s	AML	AML						
MGAB	comp=N,596µm,0.6s	AML	AML						
MGAB	comp=E,616µm,0.5s	AML	AML						
MGAB	comp=N,554µm,0.4s	AML	AML						
VLC	Villacollemand	0.90 325	P	Pg	23 03 22.9	-0.1			
VLC	comp=E,1190µm,1.2s	AML	AML						
VLC	comp=N,1210µm,0.4s	AML	AML						
VLC	comp=N,1225µm,0.4s	AML	AML						
VLC	comp=E,1210µm,1.2s	AML	AML						
VLC	comp=E,1070µm,0.6s	AML	AML						
VLC	comp=N,1212µm,0.4s	AML	AML						
VLC	comp=E,1068µm,0.7s	AML	AML						
VLC	comp=N,1228µm,0.4s	AML	AML						
SARO	Sassorosso	0.92 327	P	Pg	23 03 23.6	+0.4			
SARO	Sassorosso	0.92 327	P	Pg	23 03 23.4	+0.1			
SARO	comp=E,4075µm,0.5s	AML	AML						
SARO	comp=N,6100µm,0.5s	AML	AML						
SARO	comp=E,4080µm,0.5s	AML	AML						
SARO	comp=N,6105µm,0.5s	AML	AML						
SARO	comp=E,4080µm,1.5s	AML	AML						
SARO	comp=E,4078µm,0.5s	AML	AML						
SARO	comp=N,6103µm,0.5s	AML	AML						
MASSA	Massa (MS), It	0.93 310	P	Pb	23 03 24.4	+0.6			
MASSA	Zocca	0.94 354	S	Sb	23 03 36.3	+0.1			
ZCCA	Zocca	0.94 354	P	Pb	23 03 24.2	+0.2			
ZCCA	Zocca	0.94 354	S	Sb	23 03 38.9	+0.4			
ZCCA	Zocca	0.94 354	P	Pb	23 03 42.9				
ZCCA	comp=N,494nm,0.8s	IAML							
ZCCA	comp=E,691nm,1.1s	IAML			23 03 47.5				
ZCCA	Zocca	0.94 354	P	Pn	23 03 25.2	+0.3			
ZCCA	Zocca	0.94 354	P	Pb	23 03 24.1	+0.1			
ZCCA	comp=E,1675µm,1.6s	AML	AML						
ZCCA	comp=N,1168µm,0.9s	AML	AML						
ZCCA	comp=E,1720µm,1.6s	AML	AML						
ZCCA	comp=N,1280µm,1.0s	AML	AML						

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ZCCA	comp=N,1280µm,1.0s	AML	AML						
ZCCA	comp=N,1168µm,1.1s	AML	AML						
ZCCA	comp=E,1675µm,0.4s	AML	AML						
ZCCA	comp=E,1720µm,0.4s	AML	AML						
ZCCA	comp=E,1524µm,0.6s	AML	AML						
ZCCA	comp=E,1564µm,0.6s	AML	AML						
ZCCA	comp=N,1052µm,0.6s	AML	AML						
ZCCA	comp=N,1033µm,0.5s	AML	AML						
ATTE	AVT- Monte Tez	0.94 103	P	Pg	23 03 23.3	-0.4			
ATTE	comp=E,1101µm,0.9s	AML	AML						
ATTE	comp=N,984µm,1.1s	AML	AML						
ATTE	comp=E,1101µm,1.1s	AML	AML						
ATTE	comp=N,984µm,1.1s	AML	AML						
ATTE	comp=E,1100µm,0.9s	AML	AML						
ATPI	Pietralunga -	0.95 88	P	Pg	23 03 23.4	-0.4			
ATPI	comp=E,1135µm,0.6s	AML	AML						
ATPI	comp=N,884µm,0.5s	AML	AML						
ATPI	comp=E,1067µm,0.6s	AML	AML						
ATPI	comp=N,888µm,0.6s	AML	AML						
ATPI	comp=E,1135µm,1.4s	AML	AML						
ATPI	comp=E,1067µm,1.4s	AML	AML						
ATPI	comp=N,884µm,1.5s	AML	AML						
ATPI	comp=E,1069µm,0.6s	AML	AML						
ATPI	comp=N,882µm,0.5s	AML	AML						
ATPI	comp=N,888µm,0.6s	AML	AML						
ATPI	comp=E,1134µm,0.6s	AML	AML						
ATVO	AVT- Monte Val	0.95 92	P	Pg	23 03 23.6	-0.2			
ATVO	comp=E,1245µm,0.6s	AML	AML						
ATVO	comp=N,1265µm,0.8s	AML	AML						
ATVO	comp=N,1265µm,1.2s	AML	AML						
ATVO	comp=N,1269µm,0.8s	AML	AML						
ATVO	comp=N,1242µm,0.6s	AML	AML						
LATE	Laterza	0.95 147	P	Pg	23 03 24.8	+0.9			
ATLO	AVT- Montelove	0.96 96	P	Pg	23 03 24.0	0.0			
CPGN	Carpegna, Ital	0.96 66	P	Pb	23 03 24.7	+0.2			
CPGN	comp=E,1350µm,1.4s	AML	AML						
CPGN	comp=N,1350µm,1.4s	AML	AML						
CPGN	comp=E,1004µm,0.4s	AML	AML						
CPGN	comp=N,1655µm,1.5s	AML	AML						
CPGN	comp=E,1350µm,0.6s	AML	AML						
CPGN	comp=N,1655µm,0.5s	AML	AML						
CPGN	comp=N,1350µm,0.6s	AML	AML						
CPGN	comp=N,1222µm,0.5s	AML	AML						
CPGN	comp=E,1254µm,1.1s	AML	AML						
CPGN	comp=E,1006µm,0.4s	AML	AML						
CPGN	comp=N,1339µm,0.7s	AML	AML						
APEC	Apecchio	0.97 81	P	Pg	23 03 24.3	+0.1			
APEC	comp=E,803µm,0.4s	AML	AML						
APEC	comp=N,847µm,0.4s	AML	AML						
APEC	comp=E,1650µm,0.6s	AML	AML						
APEC	comp=N,2010µm,0.4s	AML	AML						
APEC	comp=N,2011µm,0.4s	AML	AML						
APEC	comp=E,1649µm,0.6s	AML	AML						
APEC	comp=E,1421µm,0.7s	AML	AML						
APEC	comp=N,2230µm,0.4s	AML	AML						
ATPC	Poggio Castell	0.99 86	P	Pg	23 03 24.5	-0.1			
MAON	Monte Argentar	0.99 179	P						





Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like WRAB Tennant Creek, WRA Warramunga Arr, WRRB Warramunga Arr, AS31 Alice Springs, ASAR Alice Springs, BBOO Buckleboob, MJAR Matushiro Arr, STKA Stephens Creek, SONM Songoing Array, MKAR Makanchi Array, KURBB Kurchatov Arr, MMAI Mount Meron Arr.

RSNC 28 23:37:34.3 0.0 7 N 1:17 3 W, h150km, 2km, M3.1, mb4.4, mb3.5, ML2.8, Mw(mb)3.6, Northern Colombia

Large table listing station data for RSNC 28 23:37:34.3 0.0 7 N 1:17 3 W. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists numerous stations like BARC Barichara, BRUC Barrancabermej, PAMC Pamplona, RUSC La Rusia, PTBC PUERTO BERRIO, TAMC Tame, Arauca, OCAC Ocana, ZARC Zaragoza, NORC Norcasia, CHIC Chingaza, etc.

GEN 28 23:40:10.8, 44.83N, 9.30E, h8km, 1km, MIO.9, Northern Italy

Table listing station data for GEN 28 23:40:10.8, 44.83N, 9.30E. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like BOB Bobbio, GORR Gorreto, RNCA Ronca, MSSA Maissana, POC Popayana, BBAC Balboa, Cauca.

ROM 28 23:40:44.3 0.2, 43.432N, 0.009N, 11.09E, 0.02, h5km, Md1.0/2, ML1.0/7, Error ellipse: s-maj=1.6km, s-min=0.5km, az=305.0, Central Italy

Table listing station data for ROM 28 23:40:44.3 0.2, 43.432N, 0.009N, 11.09E. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like OSSC Osservatorio P, CASTELLINA CHI, FROSINI, etc.

Table with columns: FROS, AML, AML. Includes station data for FROS, TRIF, TRIF.

MEX 29 00:16:02.4 1.2, 14:26'N, 94:24'W, h15km, 2.9km, MD4.2, GCG 29 00:16:03.4 1.9, 14:20'N, 94:02'W, h36km, 488km, MD4.2, ML3.9

ISC 29 00:15:54.4 1.5, 14:38'N, 0:05:94:21'W, 0:02, h5km, 11km, n41, c250/70, Off coast of Chiapas

Large table listing station data for MEX 29 00:16:02.4 1.2, 14:26'N, 94:24'W. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like PCIG, THIG, PATR, SMCA, MKAR, HUIG, RTAL, TGIG, CCIG, SOKI, CMIG, EI PALMAR, STGB, STGO, HUEH, PEIG, VGH, VHO, NEUV, YGIG, PNIG, NUBE, TXIG, TOIG, TOIG, JAYA, HJIG, PETF, PETG, MGIG, FTIG, CRIG, SCIG, POHV, JAUV, DAIG, PLIG, CXUV, ARIG, etc.

IDC 29 00:34:54.0 1.8, 47:15'N, 156:99'E, h0km, mb3.6/6, mbmp3.6/7, ML2.4/1, MS2.3/2, Error ellipse: s-maj=43.7km, s-min=27.2km, az=175.0

ISC 29 00:34:59.2 1.4, 47:22'N, 0:1:157:0E, 0:2, h35km, n11, c193/8, mb3.6, East of Kuril Islands

Table listing station data for IDC 29 00:34:54.0 1.8, 47:15'N, 156:99'E. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like PETK, ILAR, MKAR, KURBB, BVAR, TXAR, EKA, etc.

MS4.1/12, Error ellipse: s-maj=6.0km s-min=3.9km, az=70.0

ISC 29 01:04:07.9 0.6, 56:19'N, 0:04:164:13E, 0:03, h31km, 4km, n858, c191/67/2, mb4.8/285, MS4.0/70, 20C-14D, Komandorski Islands region

Large table listing station data for MS4.1/12, Error ellipse: s-maj=6.0km s-min=3.9km. Columns include Code, Station Name, Az, Phase ID, Time, Res, ISC. Lists stations like KBTR, KBTR, KBG, Bering, Semkarok, Lognova, Bezymannyi-Gr, Klyuchi, Krestovskiy, Bezymannyi-We, Bezymannyi-We, Mys Kozlova, Kyrishiev, Kopyto, Kamenistaya, Tumor D, Sredinnyy, Esso, Oссора, Karymskiy, Mys Shipunski, Nalychchevo, Nalychchevo, Sedlovina, Koryakskii, Koryakskii, Arik, Somma, Avacha, Ugl'ovaya, Koryakka, Ganaly, Tillichiki, Dalny, Insitute, Petropavlovsk, RUS, RUS, Gorelyy, Apacha, Asacha, Asacha, Pazuzhetka, Severo-Kuril's, Severo-Kuril's, Maigadan, Seymchan, Bilbino, Okha, etc.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Rate Variance, Elevation Bias Rate Variance, Azimuth Bias Rate Covariance, Elevation Bias Rate Covariance, Azimuth Bias Rate Correlation, Elevation Bias Rate Correlation.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Rate Variance, Elevation Bias Rate Variance, Azimuth Bias Rate Covariance, Elevation Bias Rate Covariance, Azimuth Bias Rate Correlation, Elevation Bias Rate Correlation.

Table with columns: Station Name, Azimuth, Elevation, Azimuth Error, Elevation Error, Azimuth Rate, Elevation Rate, Azimuth Accuracy, Elevation Accuracy, Azimuth Bias, Elevation Bias, Azimuth Variance, Elevation Variance, Azimuth Covariance, Elevation Covariance, Azimuth Correlation, Elevation Correlation, Azimuth Bias Rate, Elevation Bias Rate, Azimuth Bias Variance, Elevation Bias Variance, Azimuth Bias Covariance, Elevation Bias Covariance, Azimuth Bias Correlation, Elevation Bias Correlation, Azimuth Bias Rate Variance, Elevation Bias Rate Variance, Azimuth Bias Rate Covariance, Elevation Bias Rate Covariance, Azimuth Bias Rate Correlation, Elevation Bias Rate Correlation.

Table with columns: ILAR, comp, Z, 4.5nm, 0.8s, baz=264, slow=7.6, SNR=42, LR, LR, 01 19 43.6, etc. Lists various locations like Dawson, Moose Creek, Blow River, etc.

Table with columns: DAWY, Dawson, 28.31 51 P P, 01 09 58.2 -0.1, etc. Lists various locations like Dawson, Moose Creek, Blow River, etc.

Table with columns: SONM, comp=Z, 1.1nm, 0.6s, baz=78, slow=2.1, SNR=3.6, LR, LR, 01 26 15.4, etc. Lists various locations like Kotaneelee, Toad River, Wake Island, etc.

29d 1h

Table of meteorological data for 29 days in 1 hour, including station names like FFC, DBG, NUUG, BVAR, etc., and their corresponding values.

2019 JUN

Table of meteorological data for the month of June 2019, including station names like PV07, PV03, PV13, etc., and their corresponding values.

1860

Table of meteorological data for the year 1860, including station names like AK22, AK04, AKASG, etc., and their corresponding values.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like W50A Signal Mountai, TESR Tescani, JAVC Veika Javorina, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like PAB San Pablo, EIL Elat, PMTG Montargil, etc.

Table with columns: Station Name, Frequency, Power, Mode, and other technical details. Includes stations like CHOS Chios island, CHOS Chios island, CHOS Chios island, etc.





Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like MK31 Makanchi Array, MKAR Makanchi Array, MAZ2 Makanchi, BOOM Boomskeye usch, SEY Seymchan, ARSB Arslanbob, ZALV Zalesovo Beam, KURBB Kurchatov Arra, KKAR Karatay Arra, BVAR Borovoye Arra, AB31 Akbulak array, ABKAR Akbulak array, QSPA South Pole Qui.

KRSC 29 03:49:15.8 1.5, 56:21N:164:30E, h49km, 20km, M4.0
IDC 29 03:49:15.3 0.7, 56:27N:163:32E, h0km, mb3.7/14,
mbmp3.7/16, ML3.3/2, MS3.0/3, Error ellipse:
s-maj=25.7km s-min=14.8km az=150.0

ISC 29 03:49:15.7 1.7, 56:21N:0:04:164:25E:0:04, h4km, 10km,
n61, c1534/65, mb3.8/14, Komandorsky Islands region

Main table for 1863 with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like KBTR Krutoberegovo, KBTG Krutoberegovo, BKI Bering, BKR Semkarok, SMKR SMKR, BDR Baidarnaya, ZLN Zelenaya, CIRR Tsirk, LGNR Loginova, KLY Klyuchi, BZGR Bezymyanni-Gr, KRSR Krestovskiy, BZWR Bezymyanni-We, EZMR Bezymyannaya, MKZ Mys Kozlova, KIRR Kirishev, KPT Kopyto, KMNR Kamenistaya, TUMD Tumrok D, KOZ Kozzyrevsk, SRDR Sredinnyy, OSSR Ossora, CCSR CCSR, KII Karaymskiy, SPN Mys Shipunskiy, NLC Nalytchevo, SDLR Sedlovina, KRER Korvayskii, GNL Ganaly, SMAR Somma, AVH Avacha, UGLR Uglova, KOK Korvaya, GNL Ganaly, DAK Dalny, PETK Petropavlovsk, RES Resolute Bay, KURBB Kurchatov Arra, MKAR Makanchi Array, NVAR Mina Array Be, PDAR Pinedale Array, ULM Lac du Bonnet, NOA NORARS Array B, HFS Hagfors, SCHQ Schefferville, AKASG Malin Array Be, TXAR Lajitas Array, TKL Tuckaleechee C, WRA Warramunga Arr, QSPA South Pole Qui.

GCG 29 04:05:35.2 1.9, 15:44N:93:01W, h97km, 25km, MD4.0,
ML3.3
MEX 29 04:05:36.0 0.6, 15:44N:92:98W, h99km, 6km, MD4.0
ISC 29 04:05:32.9 1.4, 15:32N:0:05:93:06W:0:03, h112km, 9km,
n22, c1995/42, Near coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like PCIG Puerto Escondido, PATR El Naranjo, PAVE Pavencul, THIG THIG, SMCA Catarina, CCIG Comitán, CCIG Comitán, CCIG Comitán, TGIG TGIG, HUEH Huehuetenango, RTAL Retalhuleu, STGO El Palmar, Qui, CMIG Matias Romero, HUIG Huatulco, PETF Flores, PETF Flores, PEIG Puerto Escondido, YOIG Yosondúa, TOIG Toxpalán, TGIG TGIG, TXIG TXIG, PNIG Pinotepa, JAUV Jalcomulco.

IDC 29 04:13:52 4.0, 8, 8:24N:126:10E, h0km, mb3.9/10,
mbmp3.9/10, MS3.4/3, Error ellipse: s-maj=31.3km
s-min=1.2km az=97.0

ISC 29 04:13:57.3 0.8, 8:17N:0:09:125:9E:0:3, h36km, n15,
c076/12, mb3.8/10, Mindanao

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like DAV Davao City (W), DAV Davao City (E), DAV Davao City (W), KAP Kappang, WRA Warramunga Arr, KSRS Koroa Array, ASAR Alca Springs, USRK Ussuriysk Ar, ASAJ Asajuk Array, KLR Kul'dur, STKA Stephens Creek, MKAR Makanchi Array, AAK Ala-Archa, KURBB Kurchatov Arra, BVAR Borovoye Arra, FINES FINESS Array B, KRSC 29 04:16:12.8 1.6, 56:16N:164:73E, h49km, 23km, M4.2, IDC 29 04:16:12.3 0.9, 56:09N:164:69E, h0km, mb3.7/12, mbmp3.7/14, ML3.3/2, MS2.8/5, Error ellipse: s-maj=29.8km s-min=14.9km az=163.0, NEIC 29 04:16:15.2 2.3, 56:5N:0:2:164:0E:0:2, h10km, 2km, mb4, 1/39, Error ellipse: s-maj=33.6km s-min=15.5km az=152.0, ISC 29 04:16:12.9 0.5, 55:39N:0:05:164:28E:0:04, h16km, n88, c1995/76, mb4.1/33, Komandorsky Islands region

KRSC 29 04:16:12.8 1.6, 56:16N:164:73E, h49km, 23km, M4.2,
IDC 29 04:16:12.3 0.9, 56:09N:164:69E, h0km, mb3.7/12,
mbmp3.7/14, ML3.3/2, MS2.8/5, Error ellipse:
s-maj=29.8km s-min=14.9km az=163.0,
NEIC 29 04:16:15.2 2.3, 56:5N:0:2:164:0E:0:2, h10km, 2km,
mb4, 1/39, Error ellipse: s-maj=33.6km s-min=15.5km
az=152.0

ISC 29 04:16:12.9 0.5, 55:39N:0:05:164:28E:0:04, h16km, n88,
c1995/76, mb4.1/33, Komandorsky Islands region

Main table for 2019 JUN with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like KBTR Krutoberegovo, KBTG Krutoberegovo, BKI Bering, BKR Semkarok, ZLN Zelenaya, MKZ Mys Kozlova, CIRR Tsirk, BZGR Bezymyanni-Gr, KLY Klyuchi, KRSR Krestovskiy, BZMR Bezymyannaya, KIRR Kirishev, KMNR Kamenistaya, KPT Kopyto, KOZ Kozzyrevsk, SRDR Sredinnyy, ESO Esso, KII Karaymskiy, OSSR Ossora, SPN Mys Shipunskiy, SDLR Sedlovina, KRER Korvayskii, SMAR Somma, KRX Arik, UGLR Uglova, AVH Avacha, GNL Ganaly, PETK Petropavlovsk, PETK Petropavlovsk, PETK Petropavlovsk, MA2 Magadan, ATKA Atka Island, ASAJ Asahikawa, ASAJ Asahikawa, F17K Baldwin Pennin, ERM Erimo, K17K Iditarod, H18K Honhosa River.

Main table for 29d 4h with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes entries like M17K Holitna River, M17K Innoko River, J18K Innoko River, J18K Innoko River, F19K Shalercukik Mo, F19K Shalercukik Mo, C19K Lookout Mountain, D19K Kuna River, D19K Kuna River, E19K Redstone River, E19K Peulik 4, O18K Koktuh Hills, P18K Big Mountain, P18K Big Mountain, D20K Etivluk River, D20K Etivluk River, IMAR Indian Mountain, F21K Alatina River, E22K Anaktuvuk Pass, SNA Sustina One, CNPM China Poot, E23K Chandalar, E23K Chandalar, TOLK Toolik Lake Re, E24K Wood River Hill, WRH Wood River Hill, CCB Clear Creek Bu, G24K Hadweenciz Ry, G24K Hadweenciz Ry, IL31, IL31, ILAR Eielson Array, ILAR Eielson Array, F25K Christian River, F25K Christian River, E25K Arctic Village, E25K Arctic Village, BMAR Burnt Mountain, MJAR Matsuhiro Arr, MJAR Matsuhiro Arr, MJAR Jago River, C27K Jago River, SONM Songio Array, H1N2 WAKE ISLAND Hy, H1N3 WAKE ISLAND Hy, H1N1 WAKE ISLAND Hy, HHC HU-HO-hao-tie, HHC HU-HO-hao-tie, YKA Yellowknife Arr, YKA Yellowknife Arr, GTA Gaotai, GTA Gaotai, BLKN Baker Lake, MXC Moxie City, MXC Moxie City, KURBB Kurchatov Arra, MKAR Makanchi Array, BVAR Borovoye Arra, ELK Elko, NVAR Mina Array Be, PZH Pinedale Array, PDAR Pinedale Array, KSH Karatay Array, KSH Karatay Array, NOA NORARS Array B, HFS Hagfors, TXAR Lajitas Array, SJA 29 04:57:00.2 0.7, 30:19S:71:58W, h32km, 3km, ML4.2, MW4.1, IDC 29 04:57:03.1 0.7, 30:22S:71:12W, h59km, 5km, mb3.7/6, mbmp3.8/10, Error ellipse: s-maj=26.4km s-min=16.7km az=101.0, NEIC 29 04:57:03.5 1.2, 30:20S:0:04:71:4W:0:1, h58km, 6km, s-min=6.3km az=88.0, GUC 29 04:57:03.0 0.7, 30:21S:71:32W, h65km, 2km, ML4.3, ISC 29 04:57:02.8 0.5, 30:19S:0:03:71:43W:0:04, h56km, 4km, n4, c181/11, mb4.3/6, IC-6D, Near coast of central Chile, CO05 La Serena, CO05 La Serena, CO05 La Serena, CO06 Fray Jorge, CO06 Fray Jorge, CO06 Fray Jorge, CO06 Fray Jorge, G004 Tololo Observa, G004 Tololo Observa, G004 Tololo Observa, G004 Tololo Observa, CO03 El Pedregal, CO03 El Pedregal, CO03 El Pedregal, CO03 El Pedregal.

Table with columns: Code, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like CO03 El Pedregal, CO02 Combarbal, CO01 Juntas del Tor, etc.

Table with columns: QSPA, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like South Pole Qui, South Pole Qui, South Pole Qui, etc.

Table with columns: RPRD, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like Ribas do Rio P, Yotoco, Vilc, etc.

BELA	Belgrano 2	64.78 171	I Amb	P	05 10 58.5 +1.1
BELA					05 11 00.4
P18A	comp-Z, 5.4nm, 1.1s				
MVU	Preszt Nutter	64.82 330	P	P	05 10 58.0 -0.5
MVU	Marysval	64.94 328	I Amb	I Amb	05 10 58.8 -0.4
SHPR	comp-Z, 5.5nm, 1.0s				
VNA3	Sheep Range	65.04 324	P	P	05 10 59.5 -0.3
PDAR	Neumayer Olymp	66.77 161	I Amb	I Amb	05 11 11.5 +1.2
PDAR	Pinedale Array	66.98 332	P	P	05 11 10.8 -1.5
VNA1	comp-Z, 0.4nm, 0.9s, baz=168, slow=2.9, SNR=3.7				
VNA1	Neumayer-Stat	67.02 161	I Amb	I Amb	05 11 12.2 +0.4
NVAR	comp-Z, 0.1nm, 0.5s, baz=134, slow=4.3, SNR=3.7				
NVAR	Mina Array Bea	68.17 324	P	P	05 11 19.8 0.0
ULM	comp-Z, 0.2nm, 0.5s, baz=135, slow=4.3, SNR=2.5				
ULM	Lac du Bonnet	68.77 345	P	P	05 11 21.9 -1.1
SNAE	comp-Z, 1.00nm, 0.4s				
SNAE	Sanae	68.99 161	I Amb	I Amb	05 11 24.8 +0.6
SNAE	Sanae	68.99 161	P	P	05 11 25.1 +0.8
SNAE	Sanae	68.99 161	I Amb	I Amb	05 11 26.3
SNAE	comp-Z, 4.0nm, 0.7s, baz=109, SNR=15				
SNAE	Sanae	68.99 161	LR	LR	05 38 41.7
YHL	comp-Z, 86nm, 20.8s, baz=282, slow=33				
YHL	Hebgen Lake	69.35 333	P	P	05 11 27.5 +0.4
YHL					05 11 44.1
MFID	comp-Z, 6.1nm, 1.2s				
MFID	Camas Ranch	70.42 329	I Amb	I Amb	05 11 32.8 -0.7
TBI	comp-Z, 6.8nm, 0.9s				
TBI	Tubuai	70.46 251	eLR	LR	05 32 59.9
TROLL	comp-Z, 1.1m, 27.0s				
TROLL	Troll, Antar	70.70 161	I Amb	I Amb	05 11 35.7 +0.8
SCHQ	comp-Z, 1.87nm, 0.8s				
SCHQ	Schefferville	70.95 5	P	P	05 11 34.7 -1.6
SCHO	comp-Z, 2.2nm, 1.0s, baz=201, slow=7.0, SNR=3.5				
SCHO					05 43 33.5
PPT2	comp-Z, 82nm, 19.9s, baz=205, slow=37				
PPT2	Papeete2	71.62 256	eP	P	05 11 41.4 +0.1
PPT2					05 20 45.7 -1.3
PPT2	comp-Z, 52nm, 23.5s				
PPT2	Papeete2	71.62 256	eLR	LR	05 33 26.4
PPT2					05 33 27.3
PPT2	comp-Z, 293nm, 25.0s				
PPT2	Papeete	71.63 256	LR	LR	05 35 04.9
PPT2					05 35 04.9
DBIC	comp-Z, 232nm, 18.7s, baz=119, slow=29				
DBIC	Dimbokro	72.30 77	P	P	05 11 44.6 -0.8
DBIC					05 42 17.6
PMOZ	comp-Z, 4.77nm, 19.1s, baz=218, slow=35				
PMOZ	Porto Moniz, M	73.07 48	eLR	LR	05 39 05.5
PMOZ					05 42 11.8
QSPA	comp-Z, 1.53nm, 18.0s				
QSPA	South Pole Qui	74.04 180	P	P	05 11 56.1 +1.2
QSPA					05 12 07.1
QSPA	comp-Z, 2.2nm, 1.4s				
QSPA	South Pole Qui	74.04 180	P	P	05 11 55.4 +0.5
FRB	comp-Z, 3.7nm, 0.6s, baz=270, slow=4.1, SNR=17				
FRB	Frobisher Bay	79.73 3	LR	LR	05 49 11.2
RAR	comp-Z, 1.91nm, 20.4s, baz=156, slow=37				
RAR	Rarotonga	80.25 251	LR	LR	05 38 17.6
TORD	comp-Z, 1.80nm, 21.8s, baz=136, slow=28				
TORD	Torodi Ar, Bea	80.51 73	P	P	05 12 31.1 -0.8
TORD					05 47 04.9
TORD	comp-Z, 6.5nm, 0.9s, baz=284, slow=4.6, SNR=22				
VNDA	comp-Z, 2.64nm, 20.2s, baz=238, slow=35				
VNDA	Vanda	81.22 191	P	P	05 12 33.8 -0.7
VNDA					05 42 01.3
VNDA	comp-Z, 1.2nm, 0.8s, baz=177, slow=8.8, SNR=4.6				
VNDA	Vanda	81.22 191	LR	LR	05 42 01.3
PVAQ	comp-Z, 1.13nm, 19.4s, baz=150, slow=31				
PVAQ	Vaqueiros	82.08 48	eLR	LR	05 41 17.9
PVAQ					05 46 57.3
PMRV	comp-Z, 2.07nm, 18.0s				
PMRV	Marv???	83.23 46	eLR	LR	05 41 01.6
PMRV					05 47 26.0
SYO	comp-Z, 240nm, 20.0s				
SYO	Syowa Base	83.27 161	eP	P	05 12 54.0 -1.9
PCBR	comp-Z, 1.8nm, 20.4s, baz=156, slow=37				
PCBR	Castelo Branco	83.36 45	eP	P	05 12 47.0 +0.7
PVIS	comp-Z, 1.80nm, 21.8s, baz=136, slow=28				
PVIS	Viseu	83.48 44	eP	P	05 12 47.0 -0.0
MTE	comp-Z, 6.5nm, 0.9s, baz=284, slow=4.6, SNR=22				
MTE	Manteigas	83.57 45	eLR	LR	05 12 47.8 +0.3
MTE					05 42 51.9
PGAV	comp-Z, 303nm, 20.0s				
PGAV	Gavieira, Arco	83.81 43	eLR	LR	05 42 05.0
PGAV					05 47 44.4
MVO	comp-Z, 1.60nm, 18.0s				
MVO	Moncorvo	84.26 44	eLR	LR	05 12 51.5 +0.5
MVO					05 43 37.5
MVO					05 47 06.2
YKA	comp-Z, 2.26nm, 22.0s				
YKA	Yellowknife Ar	84.50 342	P	P	05 12 50.4 -1.2
SFJD	comp-Z, 0.7nm, 0.8s, baz=141, slow=4.2, SNR=9.8				
SFJD	Kangerlussuaq	84.70 9	LR	LR	05 50 26.6
PBRG	comp-Z, 64nm, 21.3s, baz=312, slow=34				
PBRG	Brangerua	84.75 44	eP	P	05 12 53.6 +0.2
ESDC	comp-Z, 0.7nm, 0.8s				
ESDC	Sonsec Array	85.72 47	P	P	05 12 57.9 -0.5
ESDC					05 12 60.0
ESDC	comp-Z, 14nm, 1.4s				
ESDC	Sonsec Array	85.72 47	P	P	05 12 57.9 -0.5
ESDC					05 12 60.0
ESDC	comp-Z, 4.7nm, 1.1s, baz=249, slow=5.0, SNR=20				
ESDC	Sonsec Array	85.72 47	P	P	05 12 57.9 -0.5
ESDC					05 12 60.0
ESBB	comp-Z, 5.5nm, 0.9s				
ESBB	Sonsec Array	86.59 44	I Amb	I Amb	05 12 57.5 -0.9
ESBB					05 12 60.0
TSUM	comp-Z, 1.55nm, 18.1s, baz=246, slow=35				
TSUM	Tsumeb	86.51 109	LR	LR	05 50 44.1
BORG	comp-Z, 2.7nm, 21.2s, baz=312, slow=34				
BORG	Borgarnes	90.04 20	LR	LR	05 51 15.1
BOSA	comp-Z, 4.9nm, 18.3s, baz=104, slow=36				
BOSA	Boshof	90.48 120	LR	LR	05 50 40.1
SUMG	comp-Z, 1.29nm, 20.6s, baz=232, slow=33				
SUMG	Summit	91.62 10	P	P	05 13 25.5 -0.5
LBTB	comp-Z, 7.0nm, 19.0s, baz=242, slow=34				
LBTB	Labat	91.91 117	LR	LR	05 52 39.0
KEZT	comp-Z, 1.40nm, 20.1s, baz=99, slow=29				
KEZT	Urewera	94.10 228	LR	LR	05 46 22.2
URST	comp-Z, 1.32nm, 20.3s, baz=320, slow=36				
URST	Kesra	94.20 54	LR	LR	05 56 07.9
INK	comp-Z, 1.55nm, 18.9s, baz=126, slow=38				
INK	Inuvik	94.21 341	LR	LR	05 00 04.1
ILAR	comp-Z, 1.70nm, 18.2s, baz=84, slow=39				
ILAR	Eielson Array	97.25 336	LR	LR	06 02 54.4
KDAK	comp-Z, 2.49nm, 18.3s, baz=104, slow=36				
KDAK	Kodiak Island	97.39 328	LR	LR	05 58 21.4
DAVOX	comp-Z, 9.2nm, 18.6s, baz=258, slow=35				
DAVOX	Davos/Dischmat	97.64 44	LR	LR	05 57 03.9
VAE	comp-Z, 1.98nm, 18.6s, baz=258, slow=35				
VAE	Valguerna	99.54 14	LR	LR	05 57 18.7
CLL	comp-Z, 1.38nm, 21.7s, baz=296, slow=35				
CLL	Collin	100.72 40	ePS	PS	05 27 18.0 +1.1
CLL					05 33 06.0
CLL					05 36 24.0
CLL					05 57 00.0
DZM	comp-Z, 1.00nm, 19.5s				
DZM	Mont Dzumac	109.46 239	eLR	LR	05 51 04.0
H1S2	comp-Z, 262nm, 29.2s				
H1S2	WAKE ISLAND Hy21	98.28 2	T	T	07 32 54.6
H1S1	comp-Z, 99nm, 75.5s, SNR=6.9				
H1S1	WAKE ISLAND Hy21	98.28 2	T	T	07 32 50.9
H1S3	comp-Z, 99nm, 75.5s, SNR=6.9				
H1S3	WAKE ISLAND Hy22	00 282	T	T	07 32 48.8
ASAR	comp-Z, 1.8nm, 0.5s, baz=344, slow=2.4, SNR=5.0				
ASAR	Alice Springs	131.82 216	PKP	PKPdf	05 19 32.6 -0.5
BRVK	comp-Z, 0.4nm, 0.5s, baz=135, slow=1.8, SNR=6.9				
BRVK	Borovyoye	133.83 29	I Ph	PKPKP	05 19 43.1 +6.0
BRVK					05 20 10.8
BVA0	comp-Z, 0.6nm, 0.2s				
BVA0	Borovyoye Array	133.90 29	Pn	PKPKP	05 19 41.9 +4.6
BVA0					05 20 07.4
WRA	comp-Z, 2.2nm, 0.5s, baz=131, slow=2.6				
WRA	Warramunga Arr	134.46 219	PKP	PKPdf	05 19 38.3 +0.2

ZALV	Alezovo Beam	138.87 19	PKP	PKPdf	05 19 44.5 -0.7
KURB	Kurchatov Arr	139.22 26	P	PKPdf	05 19 46.1 +0.2
MJAR	Matsushiro Arr	144.75 311	PKP	PKPab	05 19 54.2 -1.0
BNX	BinXian	145.34 333	I Ph	PKPbc	05 19 56.0 -0.8
SONM	Songino Array	148.37 359	PKPbc	PKPdf	05 20 03.1 +0.9
XLT	XilinHaoTe	150.94 344	ePKPbc	PKIKP	05 20 13.0 +0.3
KSRs	Korea Array	151.09 322	PKP	PKPdf	05 20 06.6 0.0
KSRs					05 20 06.6 0.0
HHC	Hu-ho-hao-te	154.84 350	eP	PKPdf	05 20 15.8 +1.7
GTA	Gaotai	156.22 11	eP	pPKPdf	05 20 23.8 -1.2
GTA					05 20 23.8 -1.2
GTA					05 20 23.8 -0.5
LZH	Lanzhou	160.04 4	eP	PKPab	05 20 46.3 -1.2
LZH					05 20 46.3 -1.2
NJ2	Nanjing	160.16 325	eP	PKPdf	05 20 19.3 +0.4
NJ2					05 20 19.3 +0.4
PZH	PanZhihua	169.01 19	PKP	PKPdf	05 20 25.3 -1.7

IDC 29 05:02:09.3:1.7, 6.95N, 125.51E, h0km, mb3.9/6, mbmp3.9/6, MS3.4/1, Error ellipse: s-maj=80.8km s-min=18.6km az=64.0

ISC 29 05:02:16.0:1.7, 6.9N, 125.51E, h51km, n7, c065/6, mb3.8/6, Mindanao

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
JAY	Jayapura	17.83 121	LR	LR	05 12 15.8	
WRA	Warramunga Arr	28.08 162	P	P	05 08 03.1 +0.1	
CMAR	Chiang Mai Arr	28.29 296	P	P	05 08 04.7 -0.3	
ASAR	Alice Springs	31.50 165	P	P	05 08 33.2 0.0	
MKAR	Makanchi Array	54.26 325	P	P	05 11 37.8 +0.9	
ZALV	Alezovo Beam	57.20 333	P	P	05 11 57.3 -0.5	
KURB	Kurchatov Arr	58.41 327	P	P	05 12 06.5 +0.1	

NEIC 29 05:02:28.8:2.6, 8.29N, 0.09, 126.9E, 0.1, h35km, 2km, mb4.6/30, Error ellipse: s-maj=17.0km s-min=15.3km az=247.0

IDC 29 05:02:28.9:0.8, 8.19N, 126.64E, h48km, 7km, mb4.1/18, mbmp4.3/18, Error ellipse: s-maj=22.2km s-min=12.7km az=81.0

ISC 29 05:02:28.3:0.5, 8.20N, 0.06, 126.81E, 0.09, h46km, n60, c147/64, mb4.5/36, Mindanao

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
					h m s	ISC
DAV	Davao City (W)	1.66 227	Op	ISC	05 02 58.2 +3.2	
DAV	Davao City (W)	1.66 227	Pn	Pn	05 02 54.5 -0.5	
DAV					05 03 15.4 +0.3	
DAV					05 03 25.9	
DAV					05 02 59.0 +4.0	
DNTI	Ternate	7.40 176	Pn	Pn	05 04 14.9 +1.1	
WYLDN	Lahad Datu	8.78 251	Pn	Pn	05 04 33.2 +0.5	
MTN	Manton Dam	21.35 168	I Amb	I Amb	05 07 11.3 -0.4	
KNRA	Kunurra	23.81 175	P	P	05 07 37.5 +0.5	
NJ2	Nanjing	24.86 344	eP	P	05 07 49.5 +2.9	
FITZ	Fitzroy Crossi	26.16 183	P	P	05 07 58.4 -0.1	
COEN	Coen	27.36 143	I Amb	I Amb	05 08 08.9 -0.5	
COEN					05 08 42.0	
WBO	Warramunga Arr	28.78 165	P	P	05 08 22.5 +0.5	
CM31	Chiang Mai Arr	28.92 293	P	P	05 08 25.6 +2.3	
CM31					05 08 26.7	
CMAR	Chiang Mai Arr	28.92 293	P	P	05 08 23.5 +0.1	
CMAR					05 08 21.9 -1.4	
CMAR					05 08 34.9 -0.6	
WRA	Warram					

Table with columns: KSHI, Guanxi Townshi, Wufeng Townshi, Tongmen, Fushou, Xiulin Townshi, Hehuan Shan, Iriomote-Funau, Tachien, Emei, Techii, Nanjuang, Shuoufeng, Shilin, Renai, Taichung City, WUSB, HATJ, WARB, NMLH, JKRS, JKRS, NSY, TWQ, WCS, WVD, IJG, HJSD, EHY, Sun Moon Lake, SSSB, SSSB, YULB, YULB, YULB, TWFI, WHYI, WJS, WJS, WNK, CHKH, FULB, ALS, EHD, WDLH, ELDTW, EDH, EDH, TPUB, TPUB, TPUB, STYH, WTP, TWK, TWGB, TWGB, TWG, WSL, CHNI, MATB, ECL, KSRK, KLR, MKAR, ZALV, WRA, ASAR, VRAC

CATAC 29:05:33.03:4.0.6.13 N4.9 OWL, h27km, 3km, M2.7/13, MLV2.7/13, Error ellipse: s-maj=8.2km s-min=4.4km az=13.8, confirmed

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: IKRK, comp=N,561nm,0.4s, AML, AML, 05 37 54.5, IKRK, comp=N,561nm,0.4s, AML, AML, 05 37 57.5

IDC 29:05:46.24:1.2.9.34:05S:179:15W, h0km, mb3.52, mbtmp3.6/3, ML3.6/1, Error ellipse: s-maj=69.4km s-min=35.7km az=118.0

WEL 29:05:46:28:5:1.2:34:5:9:17:9W:1.4, h33km, mB4.7/3, ML4.3/13, MLv4.0/8, Mw(mB)3.9/3, Error ellipse: s-maj=19.8km s-min=7.8km az=113.0, confirmed

ISC 29:05:46:26.9:2.0.34:19S:101:178:7W:0.2, h35km, n20, a122/32, South of Kermadec Islands

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC

WRA Warramunga Arr 43.82 276 P 05 54 28.7 -1.0

FINES FINES Array B 148.46 337 PKPbc PKPbc 06 06 10.3 +1.3

IDC 29:06:05:33.8:1.2.60:27N:154:31W, h155km, 12km, mb3.4/9, mbtmp3.9/13, Error ellipse: s-maj=17.7km s-min=10.9km az=8.0

NEIC 29:06:05:36.4:1.3.60:20N:105:154:0W:0.1, h192km, 5km, Error ellipse: s-maj=27.7km s-min=7.0km az=22.7

AEIC 29:06:05:37.3:0.9.60:16N:0:05:153:9W:0.1, h190km, 4km, ML3.3, mb3.8/9(NEIC), ML3.5/12(NEIC), Error ellipse: s-maj=7.9km s-min=7.1km az=215.0

ISC 29:06:05:36.9:0.7.60:19N:0:05:153:89W:0:05, h189km, 5km, n220, a19/10/27, mb3.7/14, Southern Alaska

Table with columns: Code, Station Name, Az, AzZ, Phase ID, Time, Res, ISC, h, m, s, ISC

Table with columns: CNPM, China Poot, 1.50 115, Pn, 06 06 09.0 -0.7, BRKL, Bradley Lake, 1.57 105, Pn, 06 06 09.9 -0.5

L19K White Mountain 2.05 347 Pn 06 06 14.2 -0.9

ACHA Angles Creek He 2.12 201 Pn 06 06 14.9 -1.2

SKT Skwentna 2.13 32 IAML 06 06 16.0 0.0

SKT comp=N,132nm,0.3s IAML 06 06 49.6

ANCK Angle Creek 2.17 203 Pn 06 06 15.8 -0.7

CNTC Contact Creek 2.19 209 Pn 06 06 15.9 -0.9

O16K Kokwok River B 2.20 256 IAML 06 06 16.5 -0.3

SEW Seward 2.22 90 IAML 06 06 16.1 -0.8

SEW comp=N,277nm,0.6s IAML 06 06 52.2

RC01 Rabbit Creek A 2.24 65 IAML 06 06 15.9 -1.2

CAHL Cape Hill 2.27 199 Pn 06 06 16.6 -1.0

L20K Fawcett, L 2.28 0 Pn 06 06 18.0 +0.2

L18K Granite Mounta 2.44 328 IAML 06 06 18.9 -0.5

KDAK Kodiak Island 2.51 164 IAML 06 06 17.9 -2.4

KDAK comp=N,306nm,0.3s IAML 06 06 51.3

KDAK Kodiak Island 2.51 164 P Pn 06 06 18.0 -2.3

KDAK comp=N,1129nm,0.3s, baz=38, slow=5.9, SNR=1248 IAML 06 06 50.3 -3.7

M16K Timber Creek 2.63 291 Pn 06 06 21.4 -0.2

PMR Palmer 2.72 57 IAML 06 06 57.0 -0.3

PMR comp=E,143nm,0.6s IAML 06 07 00.5

PMR comp=N,142nm,0.2s 2.72 57 P Pn 06 06 22.2 -0.3

PLK2 Peulik 2 2.72 208 Pn 06 06 22.2 -0.7

PLK1 Peulik 1 2.78 212 Pn 06 06 22.7 -0.6

PLK3 Peulik 3 2.80 207 Pn 06 06 22.7 -0.9

CUT Chulitna 2.82 37 Pn 06 06 23.3 -0.5

PLA Purkeypile 2.83 16 Pn 06 06 23.3 -0.7

PLK4 Peulik 4 2.87 208 IAML 06 06 23.2 -1.4

PLK4 comp=E,84nm,1.1s IAML 06 07 02.9

L17K Donlin 2.89 314 Pn 06 06 24.4 -0.2

GHO Glory Hole Cre 2.89 55 IAML 06 06 23.0 -1.8

GHO comp=E,286nm,0.4s IAML 06 07 00.5

GHO comp=N,170nm,0.3s IAML 06 07 02.7

PLBL Peulik Blue Cr 2.93 212 Pn 06 06 24.4 -0.8

KNK Knik Glacier 2.93 63 IAML 06 07 02.5

KNK comp=N,216nm,0.2s IAML 06 07 02.7

OHAK Old Harbor 3.00 174 Pn 06 06 23.0 -2.9

OHAK comp=E,201nm,0.2s IAML 06 07 01.8

OHAK Old Harbor 3.00 174 P Pn 06 06 23.3 -2.7

N15K Kwethluk River 3.10 272 Pn 06 06 26.9 -0.2

L16K Owhat River 3.12 302 Pn 06 06 26.8 -0.5

K20K Telida 3.17 359 Pn 06 06 27.8 -0.2

O15K Ungalikthiuk R 3.18 254 IAML 06 07 01.7



29d 6h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like Paso Flores, Itaqui, Villa Florida, Pedras Altas, etc.

MLV3.8/24, Error ellipse: s-maj=5.9km s-min=2.1km

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists various stations like Potosi Cosigui, Potosi Cosigui, San Cristobal, etc.

1868

Table with columns: WBSI, Station Name, Time, Res, P, Pn. Lists various stations like Waikabubak, Sibu, Kappang, etc.

SNET 29 06:33:42.5:0.8, 12°14'N;87°95'W, h15km, 12km, ML3.1

CATAC 29 06:33:42.5:0.5, 12°12'N;8°8'W;v: h22km, 4km, M3.8/24,

WBSI 29 06:33:42.5:0.8, 12°14'N;87°95'W, h15km, 12km, ML3.1





29d 6h

Table of astronomical observations for 29d 6h, listing stations (e.g., BNDS, GENO, JRJN), targets (e.g., Bandar-Abbas, Garmain Island), and various parameters like RA, Dec, and SNR.

2019 JUN

Table of astronomical observations for 2019 JUN, listing stations (e.g., EIL, EIL, MMAL), targets (e.g., Elat, Mount Meron Ar), and various parameters like RA, Dec, and SNR.

1870

Table of astronomical observations for 1870, listing stations (e.g., JNSB, JNK, JRA), targets (e.g., Nemuroshibetsu, Nakash), and various parameters like RA, Dec, and SNR.





Table with columns for station name, frequency, and signal strength. Includes stations like MBWA Marble Bar, PSAAO Pilbara Seismi, XAN Xi'an, etc.

Table with columns for station name, frequency, and signal strength. Includes stations like YSS comp=N,100nm,20.0s, KLR Kul'dur, HIA Hailar, etc.

Table with columns for station name, frequency, and signal strength. Includes stations like SEY comp=Z,3.0nm,1.0s, KURK Kurchatov, BTLS Baital, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like I17K Unalakleet, RDOG Red Dog Mine, L16K Ohwah River, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like O20K Slope Mountain, Q20K Shuyak Island, IMAR Indian Mountain, etc.

Table with columns: ID, Name, Date, Time, Status, Location, and other details. Includes entries like Q23K Middleton Isla, M24K Tolsona, Glenn, H25L Birch Creek, etc.



Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like Haines Junction, Milto, Windy Craggy, Aishikik Lake, Inuvik, Spitsbergen Ar, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like Vyhne, Moravsky Berou, Kongsberg, Velka Javorina, etc.

Table with columns: Code, Station Name, Az, El, P, Q, R, S, T, U, V, W, X, Y, Z, Time, Res. Includes stations like El Salvador, Little Creek M, Indian Springs, etc.





29d 10h

N18K	comp=Z,4.5nm,0.9s	I	Amb	I	Amb	10 07 59.8
N18K	Kilae Creek	35.14	44	P	P	10 07 56.3 -0.3
G19K	Purcell Mounta	35.15	34	P	P	10 07 56.6 0.0
Q17K	Contact Creek	35.16	48	P	P	10 07 56.6 -0.3
M18K	Stony River	35.19	43	P	P	10 07 57.2 +0.2
D19K	Kuna River	35.26	30	P	P	10 07 58.8 +1.2
D19K	Kuna River	35.26	30	P	P	10 07 57.7 +0.2
H19K	Roundabout Mou	35.30	36	P	P	10 07 58.1 +0.2
E19K	Redstone River	35.34	32	P	P	10 07 59.5 +1.2
E19K	comp=Z,9.1nm,1.1s	I	Amb	I	Amb	10 08 00.5
E19K	Redstone River	35.34	32	P	P	10 07 58.4 +0.1
J19K	Poorman	35.46	38	P	P	10 08 00.7 +1.4
J19K	comp=Z,4.4nm,1.0s	I	Amb	I	Amb	10 08 01.3
J19K	Poorman	35.46	38	P	P	10 07 59.2 -0.1
P18K	Big Mountain,	35.47	46	P	P	10 07 59.1 -0.3
O18K	Kokui Hills	35.47	45	P	P	10 07 59.4 0.0
CHIR	Chirikof Islan	35.47	52	P	P	10 07 58.7 -0.8
Q18K	Katmai Hardscr	35.60	48	P	P	10 08 00.1 -0.6
L19K	White Mountain	35.68	41	P	P	10 08 01.0 -0.2
N19K	Bonanza Creek	35.83	44	P	P	10 08 01.8 -0.7
F20K	Avaraat Lake	35.84	33	P	P	10 08 02.6 +0.2
D20K	Etiwuk River	35.85	30	P	P	10 08 03.6 +1.0
D20K	Etiwuk River	35.85	30	P	P	10 08 02.2 -0.4
E20K	Nigu River	35.90	31	P	P	10 08 02.5 -0.6
H20K	Anoteneega Mo	35.95	36	P	P	10 08 03.2 -0.2
R18K	Karluk	35.96	49	P	P	10 08 04.1 +0.5
B20K	Meade River	35.98	28	P	P	10 08 03.6 0.0
I20K	Naaghdeneel	36.04	37	P	P	10 08 04.4 +0.2
K20K	Telida	36.10	39	P	P	10 08 05.0 +0.2
J20K	Nowinta River	36.12	38	P	P	10 08 06.8 +1.8
J20K	comp=Z,3.1nm,0.8s	I	Amb	I	Amb	10 08 07.4
J20K	Nowinta River	36.12	38	P	P	10 08 05.0 +0.1
L20K	Farewell, AK	36.15	41	P	P	10 08 05.5 +0.3
SII	Sitkinak Islan	36.20	51	P	P	10 08 06.4 +0.7
IMAR	Indian Mountai	36.47	35	P	P	10 08 08.7 +0.9
M20K	Styx River	36.49	42	P	P	10 08 08.4 +0.2
C21K	Knifeblade Rid	36.59	30	P	P	10 08 08.6 -0.3
G21K	Allakaket	36.63	34	P	P	10 08 10.7 +1.5
G21K	comp=Z,5.0nm,0.8s	I	Amb	I	Amb	10 08 13.5
G21K	Allakaket	36.63	34	P	P	10 08 09.2 0.0
F21K	Alatna River	36.73	33	P	P	10 08 12.1 +2.0
F21K	comp=Z,3.2nm,0.7s	I	Amb	I	Amb	10 08 13.8
F21K	Alatna River	36.73	33	P	P	10 08 10.5 +0.4
E21K	Killik River	36.74	31	P	P	10 08 10.0 -0.2
B21K	Ikpikpuk River	36.75	29	P	P	10 08 11.7 +1.6
B21K	Ikpikpuk River	36.75	29	P	P	10 08 10.3 +0.2
O20K	Slope Mountain	36.76	45	P	P	10 08 10.4 -0.1
H21K	Melozitna Rive	36.82	36	P	P	10 08 12.3 +1.5
H21K	comp=Z,8.4nm,1.4s	I	Amb	I	Amb	10 08 13.3
H21K	Melozitna Rive	36.82	36	P	P	10 08 11.0 +0.1
CHUM	Lake Minchumin	36.91	39	P	P	10 08 11.7 +0.0
PLA	Purkeypile	36.94	40	P	P	10 08 12.0 -0.1
KDAK	Kodiak Island	36.94	49	P	P	10 08 12.2 +0.3
A22K	Sinclair Lake	36.95	27	P	P	10 08 11.8 -0.1
GTA	Gaotai	36.96	279	eP	pmax	10 08 14.3 +1.8
GTA	comp=Z,5.0nm,0.5s	I	Amb	I	Amb	10 08 15.2
CAST	Castle Rocks	37.00	39	P	P	10 08 14.7 +2.3
CAST	comp=Z,3.6nm,0.8s	I	Amb	I	Amb	10 08 15.2
CAST	Castle Rocks	37.00	39	P	P	10 08 12.4 0.0
SKT	Skwentna	37.24	42	P	P	10 08 14.6 +0.1
F22K	John River	37.27	33	P	P	10 08 14.5 -0.2
D22K	Aiyikyak River	37.28	30	I	Amb	10 08 17.9
D22K	Aiyikyak River	37.28	30	P	P	10 08 14.9 +0.1
B22K	Teshkepuk Lake	37.30	28	P	P	10 08 14.7 -0.1
H22K	Ishlatitna Cre	37.43	35	P	P	10 08 16.1 +0.1
G22K	Bettles	37.47	34	P	P	10 08 16.5 +0.2
E22K	Anaktuvuk Pass	37.49	32	I	Amb	10 08 18.7
E22K	Anaktuvuk Pass	37.49	32	P	P	10 08 16.5 0.0
BPAW	Bear Paw Mtn.	37.50	38	P	P	10 08 18.5 +1.8
BPAW	Bear Paw Mtn.	37.50	38	P	P	10 08 16.7 0.0
KTH	Kamtishna Hill	37.52	39	I	Amb	10 08 19.7
SUA	Susitna One	37.63	43	P	P	10 08 18.3 +0.4
MLY	Manley	37.64	37	P	P	10 08 19.8 +1.9
MLY	comp=Z,2.4nm,0.7s	I	Amb	I	Amb	10 08 20.0
MLY	Manley	37.64	37	P	P	10 08 18.1 +0.3
TRF	Thorfare Moun	37.81	39	P	P	10 08 20.0 +0.6
COLD	Coldfoot	38.00	33	P	P	10 08 22.2 +1.4
COLD	comp=Z,3.4nm,0.6s	I	Amb	I	Amb	10 08 24.4
COLD	Coldfoot	38.00	33	P	P	10 08 20.7 -0.1
D23K	Nanushuk River	38.01	30	P	P	10 08 21.0 +0.1
G23K	Bananza Creek	38.03	34	I	Amb	10 08 24.3
G23K	Bananza Creek	38.03	34	P	P	10 08 21.1 0.0
RC01	Rabbit Creek A	38.14	43	P	P	10 08 22.3 +0.3
C23K	Ikkilik River	38.16	29	P	P	10 08 22.2 +0.1
H23K	Yukon River	38.18	36	I	Amb	10 08 25.1
H23K	Yukon River	38.18	36	P	P	10 08 21.8 -0.6
O22K	Cooper Landing	38.18	44	P	P	10 08 22.6 +0.3
I23K	Minto, Yukon-K	38.23	37	P	P	10 08 23.1 +0.4
E23K	Chandalar	38.30	32	I	Amb	10 08 25.9
E23K	Chandalar	38.30	32	P	P	10 08 23.8 +0.4
NEA2	Nenana	38.35	38	I	Amb	10 08 25.9
NEA2	Nenana	38.35	38	P	P	10 08 23.8 +0.1

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SEW	Seward	38.35	45	P	P	10 08 24.4 +0.6
TOLK	Toolik Lake Re	38.37	31	I	Amb	10 08 26.5
TOLK	Toolik Lake Re	38.37	31	P	P	10 08 24.1 +0.2
PMR	Palmer	38.40	42	P	P	10 08 23.9 -0.2
MCK	McKinley	38.41	39	P	P	10 08 24.2 0.0
GHO	Glory Hole Cre	38.48	42	P	P	10 08 26.3 +1.3
GHO	comp=Z,4.8nm,0.8s	I	Amb	I	Amb	10 08 33.4
WAT1	Susitna Watana	38.61	40	P	P	10 08 26.4 +0.4
D24K	Happy Valley	38.70	30	P	P	10 08 28.1 +1.5
D24K	Happy Valley	38.70	30	P	P	10 08 27.4 +0.8
E24K	Your Creek	38.72	32	P	P	10 08 27.5 +0.6
KNK	Knik Glacier	38.73	43	P	P	10 08 27.1 +0.1
C24K	Franklin Bluff	38.80	29	P	P	10 08 27.3 -0.1
PWL	Port Wells	38.84	43	P	P	10 08 27.9 +0.1
H24K	Novor Dome	38.86	36	P	P	10 08 28.2 +0.1
COLA	College	38.87	37	P	P	10 08 29.8 +1.7
COLA	College	38.87	37	P	P	10 08 29.8 +1.7
COLA	comp=Z,9.0nm,0.8s	I	Amb	I	Amb	10 08 28.4 +0.3
F24K	Squaw Lake	38.92	33	P	P	10 08 28.6 +0.1
WAT6	Susitna Watana	38.99	41	P	P	10 08 29.4 0.0
G24K	Hadweenzic Riv	39.05	34	P	P	10 08 30.1 +0.6
DHY	Denali Highway	39.13	40	P	P	10 08 31.1 +0.6
DHY	Denali Highway	39.13	40	I	Amb	10 08 32.2
DHY	Denali Highway	39.13	40	P	P	10 08 30.5 0.0
SCM	Sheep Creek Mo	39.24	42	P	P	10 08 30.9 -0.4
HDA	Harding Lake	39.27	38	I	Amb	10 08 33.0
HDA	comp=Z,4.8nm,0.6s	I	Amb	I	Amb	10 08 31.4 0.0
ILAR	Eielson Array	39.28	37	P	P	10 08 32.2 +0.7
P23K	Montague Islan	39.38	45	P	P	10 08 32.2 -0.1
GLI	Glacier Island	39.44	43	P	P	10 08 32.4 -0.4
D25K	Kavik River	39.58	30	P	P	10 08 33.9 -0.1
G25K	Bearman Lake	39.59	34	P	P	10 08 34.2 +0.2
H25L	Birch Creek	39.70	35	P	P	10 08 34.9 -0.1
M24K	Tolsona, Glenn	39.76	41	P	P	10 08 36.2 +0.6
F25K	Christian River	39.78	33	P	P	10 08 36.2 +0.5
K24K	Donnelly Dome	39.81	39	I	Amb	10 08 37.8
K24K	Donnelly Dome	39.81	39	P	P	10 08 35.7 -0.2
E25K	Arctic Village	39.82	32	I	Amb	10 08 42.0
E25K	Arctic Village	39.82	32	P	P	10 08 36.6 +0.6
PRP	Porcupine Dome	39.84	36	I	Amb	10 08 39.1
PRP	Porcupine Dome	39.84	36	P	P	10 08 36.0 -0.3
KLU	Klutina	39.94	42	P	P	10 08 37.5 +0.4
J25K	Salcha River,	39.94	37	P	P	10 08 37.2 +0.1
PAX	Paxson	40.01	40	P	P	10 08 37.8 +0.1
EYAK	Cordova Ski Ar	40.13	44	P	P	10 08 39.1 +0.5
BMAR	Burnt Mountain	40.19	33	P	P	10 08 41.2 +2.2
HARP	HARP	40.20	41	P	P	10 08 39.4 +0.2
RIDG	Independent Ri	40.23	39	P	P	10 08 39.5 +0.1
F26K	Sheenjek River	40.35	33	P	P	10 08 41.2 +0.8
G26K	Porcupine Rive	40.51	34	I	Amb	10 08 45.4
G26K	Porcupine Rive	40.51	34	P	P	10 08 42.0 +0.5
C27K	Jago River	40.53	30	I	Amb	10 08 46.4
C27K	Jago River	40.53	30	P	P	10 08 41.8 0.0
N25K	Chitna, Valde	40.55	42	P	P	10 08 42.6 +0.5
DOT	Dot Lake	40.58	39	P	P	10 08 42.8 +0.4
SCRK	Sand Creek	40.59	38	I	Amb	10 08 43.5
SCRK	Sand Creek	40.59	38	P	P	10 08 42.7 +0.2
BMRM	Bremner River	40.63	43	P	P	10 08 43.1 +0.3
J26L	Joseph Creek	40.73	38	P	P	10 08 44.5 +0.9
J26L	Joseph Creek	40.73	38	P	P	10 08 44.0 +0.4
I26K	Coal Creek Min	40.84	36	P	P	10 08 44.7 +0.4
KAIM	Kayak Island	40.88	45	P	P	10 08 46.0 +1.2
L26K	Log Cabin Wild	40.97	40	I	Amb	10 08 48.4
L26K	Log Cabin Wild	40.97	40	P	P	10 08 46.2 +0.7
M26K	Nabesna, AK	41.20	41	I	Amb	10 08 50.7
M26K	Nabesna, AK	41.20	41	P	P	10 08 48.3 +0.8
E27K	Coleen River	41.31	32	P	P	10 08 49.4 +1.2
MCARA	McCarthy VSAT	41.33	42	P	P	10 08 49.5 +1.0
G27K	Doyon Strip	41.35	34	P	P	10 08 49.8 +1.2
CRQE	Cirque	41.40	43	P	P	10 08 50.2 +1.1

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like Karatay Array, Simigan, Pearl Lake, FINESS Array B, etc.

ADC 29 10:06:58.0±0.8, 2.57S, 138.50E, h0km, mb4.17, mbmp4.1, 1.0, ML3.6/3, MS3.6/6, Error ellipse: s-maj=23.1km s-min=19.8km az=92.0

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like Sarmi, Genyem, Jayapura, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like PETK, MKAR, KURBB, VNSA, BVAR, MAW, ILAR, GSPA, LPAZ.

ROM 29 10:11:01.9±0.1, 4.23°10'N, 100°04'13.066E±0.005, n9km, ML1.4/12.5C-2D, Error ellipse: s-maj=0.4km s-min=0.3km az=28.0, Central Italy

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like FEM, NRC, MC2, FDMO, CESI, MMT, GAVE, MTR, MF5.

ADC 29 10:17:14.7±1.4, 5.83S, 151.85E, h0km, mb3.9/6, mbmp3.9/6, Error ellipse: s-maj=5.0km s-min=25.9km az=124.0

ISC 29 10:17:20.2±1.3, 5.9S±0.2, 151.9E±0.3, h36km, n6, t1903/6, mb3.8/6, New Britain region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like WRA, ASAR, FITZ, MKAR, ILAR, GSPA.

GCG 29 10:18:09.7±1.1, 1.3:95N:90.05W, h103km, 16km, MD3.6, ML3.5, MW3.1

SNET 29 10:18:10.6±0.8, 13:72N:90.26W, h78km, 5km, ML2.7

ISC 29 10:18:11.0±0.2, 13.72N:90.17W, 0.1, h100km, n7, t1932/12, Near coast of Guatemala

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like NUBE, CEVE, JAYA, FGR16, ESQI, COEG.

ISC 29 10:22:09.3±2.1, 5.38S, 151.40E, h0km, mb3.5/3, mbmp3.5/3, MS3.6/1, Error ellipse: s-maj=143.1km s-min=30.5km az=126.0, New Britain region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like PMG, WRA, ASAR, ILAR.

SOME 29 10:32:37.6±4.4, 58N-82.00E, h20km, NNC 29 10:32:40.0±0.8, 44:73N-81.96E, h0km, mb3.5, mpv3.0, Error ellipse: s-maj=12.6km s-min=2.8km az=118.0, Suspected Mining explosion.

ISC 29 10:32:37.3±3.0, 44.6N±0.2, 82.1E±0.2, h0km, n4, t0938/8, 2C-4D, Northern Xinjiang

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like DJR.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like DJR, PDGK, PDGK, MK31, MK31, MAKZ, MAKZ.

ATH 29 10:37:00.9, 40.22N±2.10E, h11km, 1km, ML1.4/4, Manual Solution by N.Liadopoulos First location: 2019/06/29 10:38:38, This location: 2019/06/29 10:51:51 ML Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like PENT, NEST, KPRO, MUSA, KZN, FNA, IGT, KEK.

TIR 29 10:37:16.9, 40.46N±20.77E, h14km, 1km, M2.5/4, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like KBN, NEST, NEST, FNA, SRN, IGT, PUK.

CATAC 29 10:40:41.5±0.5, 11°N±2.8°W, h10km, 3km, M3.2/11, MLv3.2/1, Error ellipse: s-maj=5.4km s-min=3.9km az=77.9, confirmed Costa Rica

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like TRT2, BRU2, BRU2, ACON, ACON.

UCR 29 11:00:40.1±0.2, 7.33N-81.96W, h35km, MW3.9

UPA 29 11:00:57.7±0.9, 8.40N-82.88W, h28km, 2km, MW4.3

ISC 29 11:00:50.6±1.4, 8.08N±0.05, 83.03W±0.04, h16km, 9km, n49, t1926/7, 1C, Costa Rica

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Rows include stations like LESP3, DVD, PEDE3, Loco3, MLIR3, CHIR3, BRU2, PTAR3, BC3P, PSOM3, DRKO, GMAL, MESA3, ABE2, RESJ, ACOS, CVTV, VTLA, VTR0, PURI, HEME, BELN, PILE, CACAO, VBV1, ATEO, CRIS3, PALD, CBL1, ITAL, AZU, AZU, SOCE, CASO, YACR, ARE1, VAREZ, NICO, CUI, BCIP, MESS, VRLE.

Table with 4 columns: Station Name, Frequency, Power, and other parameters. Includes stations like EL11 Hacienda Flor, LAPUC Finca la Perla, BLN Bluefields.

HEL 29 11:08:46.4+0.2, 67.54N:30.30E, h0km, ML1.9, Suspected explosion

KOLA 29 11:08:47.4, 67.54N:30.62E, h0km, ML2.2, Error ellipse: s-maj=4.6km s-min=2.5km az=40.0, Murmansk region, Kовдор district

ISC 29 11:08:44.5-0.8, 67.58N:0.02-30.47E:0.02, h0km, n27, o097/39, Baltic States-Belarus-Northwestern Russia

Main station list table for the first section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.

TRN 29 11:12:52.9, 11.11N:62.20W, h88km, MD3.0, North of Paria peninsula

FUNIV 29 11:12:53.1, 10.91N:62.35W, h5km, MW2.9

ISC 29 11:12:51.7, 1.3, 11.11N:0.07-32.13W:0.06, h89km, n7, o090/11, Windward Islands

Main station list table for the second section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.

PRU 29 11:27:44.5, 41.07N:20.61E, h1km

RHSSO 29 11:27:51.1, 0.6, 41.48N:20.18E, h6km, 3km, ML3.5/10

SKO 29 11:27:51.7, 1.24N, 19.74E, h0km, ML3.2

PDG 29 11:27:51.4, 0.1, 41.51N:20.09E, h9km, MD3.5/7, ML3.5/11, Error ellipse: s-maj=0.2km s-min=0.3km az=0.0

BEO 29 11:27:53.6, 0.4, 41.63N:20.16E, h12km, 3km, ML2.9/23

THE 29 11:27:53.1, 42.1N:11.2E:1.4, h2km, 20km, M2.9/21, MLh2.9/21

Main station list table for the third section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.

Table with 4 columns: Station Name, Frequency, Power, and other parameters. Includes stations like KZN Kozani, SELS Selova, PLE Plijevija.

Main station list table for the fourth section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.

ISC 29 11:28:51.0, 1.1, 3.44S:0.1-129.6W:0.1, h12km, n88, o123/71, mb3.5/4, MS3.4/11, Off coast of Oregon

Main station list table for the fifth section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.

Main station list table for the sixth section, columns: Code, Station Name, Azimuth, Azimuth Error, Phase ID, Time, Residual, and other parameters.









29d 13h

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like MTSU, VSU, YSU, etc.

2019 JUN

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like KLMR, IDGL, INCH, etc.

1884

Table with columns for station call letters, frequency, power, and other technical details. Includes stations like BILL, BOSB, BOSA, etc.



Table with columns for station ID, name, coordinates, and various data points. Includes stations like AK06, AK12, ELL, LUBAR, MNK, etc.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like MBAR, EKA, C16K, GAMB, A19K, etc.

Table with columns for station ID, name, coordinates, and various data points. Includes stations like M14K, I20K, E25K, K17K, J18K, etc.



INX	baz=323 Inuvik	74.85	13	P	P	13 32 00.6	-0.5
P16K	Nushagak River baz=31	74.92	28	P	P	13 32 01.0	-0.6
F30M	Barrier River comp=Z,6.0nm,1.1s	75.00	14	Iamb	Iamb	13 32 06.4	
F30M	Barrier River baz=328	75.00	14	P	P	13 32 01.8	-0.2
N19K	Bonanza Creek baz=314	75.02	25	P	P	13 32 01.8	-0.6
ASAR	Alice Springs comp=Z,3.1nm,0.7s,baz=315,slow=5.9,SNR=48	75.02	132	P	P	13 32 02.2	-0.5
ASAR	LR comp=Z,6.8nm,18.1s,baz=308,slow=40					14 10 03.5	
G29M	Pine Creek baz=326	75.11	15	P	P	13 32 02.3	-0.4
J25K	Salcha River, baz=320	75.12	19	P	P	13 32 01.6	-1.2
I26K	Coal Creek Min baz=322	75.17	18	P	P	13 32 02.4	-0.7
SKT	Skwentna baz=316,SNR=13	75.21	23	P	P	13 32 02.4	-0.9
I27K	Kandik River baz=323	75.33	17	P	P	13 32 03.0	-1.0
P17K	Kvichak River baz=312	75.41	27	P	P	13 32 04.0	-0.4
O18K	Koktuh Hills baz=313	75.42	26	P	P	13 32 04.1	-0.5
G30M	toah Zraii Nji baz=327	75.44	15	P	P	13 32 03.8	-0.9
O19K	Port Alsworth baz=314	75.51	26	P	P	13 32 04.4	-0.6
WAT1	Susitna Watana baz=318	75.54	22	P	P	13 32 04.9	-0.4
F31M	Tsiigehtna baz=329	75.56	14	P	P	13 32 04.6	-0.5
H29M	Whitestone comp=Z,12nm,1.4s	75.60	16	Iamb	Iamb	13 32 13.1	
H29M	Whitestone baz=326,SNR=5.3	75.60	16	P	P	13 32 04.2	-1.3
K24K	Donnelly Dome baz=320,SNR=13	75.63	20	P	P	13 32 04.7	-1.1
Q16K	King Salmon baz=312	75.67	28	P	P	13 32 05.2	-0.7
J26L	Joseph Creek baz=322,SNR=16	75.70	19	P	P	13 32 05.3	-0.9
DHY	Denali Highway comp=Z,3.5nm,0.7s	75.71	21	Iamb	Iamb	13 32 09.1	
DHY	Denali Highway baz=319	75.71	21	P	P	13 32 05.3	-1.1
P18K	Big Mountain, baz=313	75.73	27	P	P	13 32 05.5	-0.8
M22K	Willow baz=317	75.84	23	P	P	13 32 06.1	-0.7
SUA	Susitna One baz=316	75.84	23	P	P	13 32 06.4	-0.7
EPYK	Eagle Plains baz=327	75.85	15	P	P	13 32 06.4	-0.5
I28M	Miner Creek baz=324,SNR=6.9	75.87	17	P	P	13 32 06.5	-0.7
G31M	Satah River comp=Z,8.2nm,1.2s	75.90	14	Iamb	Iamb	13 32 11.3	
G31M	Satah River baz=329	75.90	14	P	P	13 32 06.5	-0.6
RIDG	Independent Ri baz=321,SNR=10	75.94	20	P	P	13 32 07.2	-0.3
WAT6	Susitna Watana baz=319	75.98	22	P	P	13 32 07.6	-0.3
SCRK	Sand Creek comp=Z,5.1nm,0.9s	76.00	19	Iamb	Iamb	13 32 09.1	
SCRK	Sand Creek baz=321,SNR=9.6	76.00	19	P	P	13 32 07.4	-0.5
O20K	Slope Mountain baz=315	76.19	25	P	P	13 32 08.5	-0.5
DOT	Dot Lake baz=313	76.23	20	P	P	13 32 06.4	-2.8
DOT	Iamb					13 32 13.4	
Q17K	Contact Creek baz=311	76.25	28	P	P	13 32 08.9	-0.6
PMR	Palmer comp=Z,5.6nm,0.8s	76.28	23	Iamb	Iamb	13 32 13.8	
PMR	Palmer baz=318,SNR=7.1	76.28	23	P	P	13 32 08.6	-0.8
P19K	Oil Pt baz=315	76.28	26	P	P	13 32 09.0	-0.5
Q18K	Katmai Hardscr baz=314	76.32	27	P	P	13 32 10.2	+0.3
PAX	Paxson comp=Z,3.6nm,0.8s	76.36	20	Iamb	Iamb	13 32 15.8	
PAX	Paxson baz=320	76.36	20	P	P	13 32 09.5	-0.5
RC01	Rabbit Creek A baz=317	76.45	23	P	P	13 32 09.7	-0.7
K27K	Chicken comp=Z,5.3nm,0.9s	76.47	19	Iamb	Iamb	13 32 12.3	
K27K	Chicken baz=323	76.47	19	P	P	13 32 10.4	-0.1
R17L	Mt. Peulik Vol baz=313	76.50	28	P	P	13 32 10.5	-0.3
M23K	Glacier View baz=325	76.57	22	P	P	13 32 11.1	0.0
Q19K	Cape Douglas, baz=315	76.64	26	P	P	13 32 11.4	-0.2
SCM	Sheep Creek Mo baz=319	76.67	22	P	P	13 32 11.6	-0.1
M24K	Tolsona, Glenn baz=320	76.81	21	P	P	13 32 12.7	+0.1
H31M	Peel River comp=Z,3.0nm,0.6s	76.84	15	Iamb	Iamb	13 32 12.9	
H31M	Peel River baz=329	76.84	15	P	P	13 32 12.5	-0.1
HARP	HAARP baz=321	76.89	21	P	P	13 32 12.6	-0.3
I30M	Mount Dempster comp=Z,5.5nm,0.6s	76.89	16	Iamb	Iamb	13 32 17.3	
I30M	Mount Dempster baz=328	76.89	16	P	P	13 32 13.3	+0.3
O22K	Cooper Landing baz=317	76.90	24	P	P	13 32 12.7	-0.2
L26K	Log Cabin Wild baz=322	76.92	20	P	P	13 32 13.4	+0.3
CHNA	Chernabura Isl baz=311	77.02	32	P	P	13 32 12.9	-0.8
PWL	Port Wells baz=318	77.08	23	P	P	13 32 13.6	-0.4
DAWY	Dawson baz=325	77.14	18	P	P	13 32 13.3	-1.0
SEW	Seward baz=318	77.27	24	P	P	13 32 14.2	-0.8
R18K	Karluk baz=314	77.29	28	P	P	13 32 14.9	-0.2
L27K	Beaver Creek baz=325,SNR=7.7	77.31	19	P	P	13 32 14.5	-0.8
BCAR	Beaver Creek A Q20K	77.32	19	P	P	13 32 14.3	-1.0
Q20K	Shuyak Island baz=316	77.32	26	P	P	13 32 14.6	-0.8
KLU	Klutina baz=320	77.36	22	P	P	13 32 15.4	-0.2
J30M	Hart River baz=328,SNR=6.1	77.45	16	P	P	13 32 16.3	+0.1
GL1	Glacier Island baz=319	77.47	22	P	P	13 32 15.8	-0.4
M26K	Nabesna, AK baz=322	77.52	20	P	P	13 32 16.0	-0.5
N25K	Chitina, Valde comp=Z,9.8nm,1.1s	77.68	21	Iamb	Iamb	13 32 19.2	
N25K	Chitina, Valde baz=321,SNR=6.7	77.68	21	P	P	13 32 16.8	-0.6
K29M	Barlow Dome comp=Z,2.9nm,0.7s	77.78	17	Iamb	Iamb	13 32 18.9	
K29M	Barlow Dome baz=327	77.78	17	P	P	13 32 17.8	-0.2
KDAK	Kodiak Island baz=316	77.85	27	P	P	13 32 17.7	-0.6
M27K	Edge Creek, AK comp=Z,5.5nm,0.6s	77.87	20	Iamb	Iamb	13 32 28.1	
M27K	Edge Creek, AK baz=323	77.87	20	P	P	13 32 17.7	-0.8
OHAK	Old Harbor baz=315	77.98	27	P	P	13 32 19.5	+0.5
CHIR	Chirikof Islan baz=314	78.03	29	P	P	13 32 19.2	-0.1
P23K	Montague Islan baz=319	78.03	23	P	P	13 32 19.1	-0.2
SII	Sitkinak Islan baz=315	78.10	28	P	P	13 32 19.5	-0.3

BVCY	Beaver Creek baz=324	78.10	19	P	P	13 32 19.6	-0.1
EYAK	Cordova Ski Ar baz=320	78.14	22	P	P	13 32 20.2	+0.3
BMRM	Brenner River baz=321	78.17	21	P	P	13 32 20.3	+0.1
L29M	L29M baz=326	78.25	18	P	P	13 32 20.6	+0.1
VRDI	Verde Repeater comp=Z,4.1nm,0.8s	78.32	21	Iamb	Iamb	13 32 26.1	
MCARA	McCarthy VSAT baz=323	78.32	21	P	P	13 32 21.1	+0.2
MAYO	Mayo, Yukon baz=325	78.39	17	P	P	13 32 21.0	-0.2
M29M	Somme Creek baz=326	78.72	18	P	P	13 32 22.9	-0.3
YUK3	Moose Creek baz=325	78.73	19	P	P	13 32 23.3	-0.1
CROE	Cirque baz=323	78.80	21	P	P	13 32 22.8	-0.9
Q23K	Middleton Isla baz=320	78.81	23	P	P	13 32 23.3	-0.3
M30M	Minto Dukon baz=327	79.03	17	P	P	13 32 23.7	-1.2
KAIM	Kayak Island baz=322	79.05	22	P	P	13 32 24.9	0.0
CTG	China Glacier baz=324	79.14	20	P	P	13 32 25.8	+0.2
BGLC	Bering Glacier baz=322	79.25	21	P	P	13 32 25.2	-0.7
YUK8	Steele Glacier baz=325	79.33	19	P	P	13 32 26.5	-0.3
YUK4	Talbot Arm baz=326	79.58	19	P	P	13 32 27.1	-0.9
MESA	MESA baz=324	79.60	21	P	P	13 32 27.5	-0.7
O28M	Mount Upton baz=325	79.63	20	P	P	13 32 27.3	-1.1
N30M	Aishik Lake baz=323	79.90	18	P	P	13 32 29.0	-0.6
M31M	Dru Creek, Y baz=329	79.94	17	P	P	13 32 29.3	-0.5
YUK6	Outpost Mounta baz=326	79.99	19	P	P	13 32 29.4	-1.0
FARO	Faro, Yukon baz=330	80.16	16	P	P	13 32 30.6	-0.4
PINM	Pinnacle baz=325	80.17	20	P	P	13 32 30.0	-1.1
N31M	Braeburn, Yuko baz=328	80.21	18	P	P	13 32 31.0	-0.2
MMPY	Sheldon Lake, baz=332	80.29	15	P	P	13 32 30.8	-0.9
HYT	Haines Junction HYT	80.32	19	Iamb	Iamb	13 32 32.7	+0.7
HYT	Haines Junction baz=327	80.32	19	P	P	13 32 31.7	-0.3
O29M	Mount Kennedy baz=328	80.47	19	P	P	13 32 31.7	-1.1
O30N	Mendenhall baz=328	80.74	18	P	P	13 32 33.7	-0.4
PNL	Peninsula baz=326	80.76	20	P	P	13 32 33.7	-0.6
P30M	Million Dollar baz=328	81.06	19	P	P	13 32 35.5	-0.4
WHY	Whitehorse baz=329	81.15	18	P	P	13 32 35.1	-1.3
N32M	Quit Lake baz=331	81.16	17	P	P	13 32 35.9	-0.5
WRGLY	Wrigley baz=338	81.24	12	P	P	13 32 36.0	-0.7
P29M	Windy Craggy baz=328	81.27	19	P	P	13 32 36.4	-0.5
PLBC	Pleasant Camp baz=328	81.79	19	P	P	13 32 38.8	-0.8
TGTM	Hyland Airport baz=328	81.90	14	P	P	13 32 39.2	-1.1
P33M	Teslin, Yukon comp=Z,6.5nm,1.2s	82.05	17	Iamb	Iamb	13 32 45.6	
P33M	Teslin, Yukon baz=331	82.05	17	P	P	13 32 40.4	-0.7
SKAG	Skagway comp=Z,6.7nm,0.9s	82.06	18	Iamb	Iamb	13 32 43.1	
SKAG	Skagway baz=329	82.06	18	P	P	13 32 41.1	0.0
BOSA	Bushof comp=Z,8.4nm,0.8s,baz=329,slow=1.9,SNR=19	82.36	228	P	P	13 32 41.6	-1.6
P32M	Atlin baz=330	82.37	18	P	P	13 32 42.4	-0.3
WTLY	Watson Lake, Y comp=Z,3.0nm,1.0s	83.07	15	Iamb	Iamb	13 32 46.6	
WTLY	Watson Lake, Y baz=331	83.07	15	P	P	13 32 45.8	-0.6
S31K	Pelican baz=334	83.10	20	P	P	13 32 45.1	-1.3
YKAW3	Yellowknife Wh comp=Z,4.7nm,0.9s	83.14	8	Iamb	Iamb	13 32 50.4	
YKA	Yellowknife Ar comp=Z,5.0nm,0.8s,baz=343,slow=5.4,SNR=16	83.20	8	P	P	13 32 45.8	-1.2
R33M	Jennings River baz=332	83.22	17	P	P	13 32 46.7	-0.5
YKAW	Yellowknife Wh comp=Z,5.8nm,1.0s	83.28	17	Iamb	Iamb	13 32 47.5	
Q32M	Nakina River baz=331	83.30	19	P	P	13 32 47.1	-0.6
R32K	Eastcrest baz=330	83.30	19	P	P	13 32 47.4	-0.2
DLBC	Dease Lake baz=333	84.29	17	P	P	13 32 52.1	-0.6
S34M	Telegraph Cree baz=337	84.49	17	P	P	13 32 54.0	+0.4
TOAD	Toad River Com baz=337	84.98	14	P	P	13 32 56.1	0.0
WRAK	Wrangell Islan baz=331	85.50	19	P	P	13 32 58.5	-0.1
T35M	Bob Quinn baz=333	85.54	17	P	P	13 32 58.8	-0.1
U33K	Whale Pass baz=331	85.56	19	P	P	13 32 58.1	-0.8
STKA	Stevens Creek comp=Z,64nm,18.1s,baz=354,slow=39	86.46	133	LR	LR	14 16 38.1	
CRA8	Craig baz=331	86.12	19	P	P	13 33 01.4	-0.4
V35K	Ketchikan baz=332	86.66	19	P	P	13 33 03.7	-0.7
SCHO	Schefferville comp=Z,3.0nm,0.7s,baz=39,slow=5.0,SNR=5.0	88.05	343	P	P	13 33 10.3	-0.9
SCHO	LR comp=Z,3.1nm,18.1s,baz=280,slow=39					14 17 12.2	
GSPA	South Pole Q1 123.42 180 PKP			PKP	PKP	13 39 15.0	-2.4
CPUP	Comp Florida 144.72 271 PKP			PKP	PKP	13 39 54.0	-2.9
PLCA	Paso Flores 157.54 244 PKP			PKP	PKP	13 40 17.6	+0.3
PLCA	comp=Z,1.2nm,1.0s,baz=153,slow=4.5,SNR=1.7						

SJA	SJA						eS	Sn	13 21 21.7	+1.1



Table with columns: FITZ, FITZ, ASAR, MKAR. Includes station names, coordinates, and time/res data.

ISU 29 14:52:05.40:06N.67:90E, h6km
ISC 29 14:52:05.0-1.5, 40.02N-0.06:67E:0.1, h10km, n4,
@156/7, 1C-2D, Southeastern Uzbekistan

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like DZI, BXML, BXML, KK31, KK31, AB31.

UCR 29 14:56:56.0:1.1, 8:35N-82:81W, h20km, 4km, MW3.5
UPA 29 14:56:56.2:0.9, 8:39N-82:82W, h20km, 8km, ML3.3, MW3.3

ISC 29 14:56:56.0:1.1, 8:37N-0:04:82:81W:0.03, h32km, 7km, n36, @099/48, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like LESP3, LESP3, LPPC, LPPC, LIM03, LIM03, LMNES, LMNES, DVD, DVD, CSTBL, CSTBL, PEDE3, PEDE3, LCO3, LCO3, CLLR4, CLLR4, MLIR3, MLIR3, FITO, FITO, BRU2, BRU2, EDAD, EDAD, PTAR3, PTAR3, TBS2, TBS2, SCLRA, SCLRA, VITO, VITO, BC3P, BC3P.

NEIC 29 15:02:39.8:2.3, 14:7S:0:1:77:1W:0.3, h15km, 7km, mb4.3/5, Error ellipse: s-maj=38.3km s-min=11.0km az=66.0

IDC 29 15:02:50.6:5.8, 12:76S:75:46W, h0km, mb4.0/2, mbmp4.0/3, ML4.2/1, MS3.3/11, Error ellipse: s-maj=264.2km s-min=28.1km az=35.0

ISC 29 15:02:40.2:1.2, 14:74S:0:10:76:9W:0.1, h10km, n39, @234/19, MS3.3/9, Near coast of Peru

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like NNA, ANA, ATAH, ATAH, PB18, PB18, PB16, PB16, CZSB, CZSB, PB11, PB11, LPAZ, LPAZ, LPAZ, LPAZ, TA01, TA01, GA01, GA01, PB08, PB08, PB01, PB01, H03N1, H03N1, H03N2, H03N2, H03N3, H03N3, BO02, BO02, RUSC, RUSC, BOAV, BOAV, SDV, SDV, PCRV, PCRV, BDFB, BDFB, MDP, MDP, RCBR, RCBR, TXAR, TXAR, SADO, SADO, HAL, HAL, SCHG, SCHG, DBIC, DBIC, TORD, TORD.

Table with columns: DAVOX, H1N1, H1N2, H1N1, H1S2, H1S1, H1S3, SONM. Includes station names, coordinates, and time/res data.

TIR 29 15:03:23.3, 40:44N-20:77E, h20km, 1km, Md2.7/5, ML3.0/5
ATH 29 15:03:23.4, 40:56N-20:95E, h22km, 2km, ML2.4/3
Manual Solution by A.Moschou First location: 2019/06/29
15:04:43, This location: 2019/06/29 15:44:37 ML
Amplitudes are expressed in micrometers. All distances are expressed in degrees Latitude uncertainty: 3 km; Longitude uncertainty: 4 km

SKO 29 15:03:25.3, 40:46N-20:84E, h22km, ML2.4
BEO 29 15:03:25.7, 40:42N-21:00E, h22km, 5km, ML2.1/5
THE 29 15:03:26.8, 40:16N-2:1E, h0km, 4km, ML2.3/13, MLh2.3/13

ISC @03:25.1:0.9, 40:45N:0:02:20:81E:0:03, h8km, 8km, n36, @131/55, Greece-Albania border region

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like KBN, KBN, NEST, NEST, NEST, NEST, PENT, PENT, PENT, PENT, FNA, FNA, FNA, FNA, FNA, FNA, KPRO, KPRO, KPRO, KPRO, OHR, OHR, OHR, OHR.

ISC @E:1.94nm,0.5s
KZN Kozani 0.74 101 P Pg 15 03 39.9 +0.4
SRN Sarande 0.84 228 P Pg 15 03 39.9 +2.3

ISC @E:0.6nm,0.4s
SRN Sarande 0.99 202 Amd P Pg 15 03 33.2 -0.6

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like SRN, SRN, IGT, IGT, IGT, IGT, IGT, IGT, IGT, IGT, KERK, KERK, TIR, TIR, TYHL, TYHL, AMPL, AMPL, VAY, VAY, VAY, VAY.

ISC @N:40nm,0.6s
LKD2 Lefkada island 1.66 184 P Pb 15 03 56.1 +0.1
NYDR Nydri-Lefkada 1.73 183 P Pb 15 03 57.3 0.0

ISC @N:0.5nm,0.8s
SCTE Santa Cesarea 1.83 259 Pn Pn 15 04 21.1 +1.1

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like AGG, AGG, VLS, VLS, BARS, BARS, BARS, BARS, DRO, DRO, SELS, SELS.

IDC 29 15:08:20.6:1.8, 31:00S-177.69W, h0km, mb3.7/3, mbmp3.8/4, ML3.4/1, Error ellipse: s-maj=42.4km s-min=31.8km az=20.0, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like URZ, URZ, ASAR, ASAR, WRA, WRA, GSPA, GSPA, FINES, FINES.

SKHL 29 15:45:22.5:0.1, 45:30N-151:50E, h111km, 8km, mb4.7/4, msh5.3/4

IDC 29 15:45:23.1:3.7, 46:34N-150:74E, h146km, 4km, mb3.1/3, mbmp3.6/7, Error ellipse: s-maj=85.2km s-min=18.7km az=138.0

JMA 29 15:45:27.1:0.9, 46:15S:15:0E:1, h148km, MV3.5/12, KURILE ISLANDS REGION

ISC 29 15:45:20.3:1.3, 45:55N:02:15:14E:0.1, h100km, n23, @254/33, mb3.3/4, Kuril Islands

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like KUR, KUR, KUR, KUR, SHO, SHO, SHO, SHO.

Table with columns: SHO, SHO, YUK, YUK, YUK, YUK, YUK, YUK, GLVR, GLVR, GLVR, GLVR.

NEM2 Nemuro 2 4.55 245 P Pn 15 46 29.1 +2.2

NMR NMR 4.56 245 P Pn 15 46 29.3 +2.3

JNK Nakash 5.12 251 eP Pn 15 46 35.8 +1.8

JAK Akkeshi 5.40 245 eP Pn 15 46 39.8 +1.3

JTKR Ashorobuto 5.87 251 eP Pn 15 46 47.0 +1.9

JOB Onbets 6.36 248 eP Pn 15 46 48.1 +1.5

KAK Katakawa 2 6.00 259 eP Pn 15 47 50.7 -3.1

ASAJ Asahikawa 6.40 261 P Pn 15 46 51.3 -0.2

JCH Churui 6.44 247 eP Pn 15 46 53.3 +0.7

JNBK Urakawa-nobuka 7.00 246 eP Pn 15 47 18.2 -5.0

PETK Petropavlovsk- 8.70 26 P Pn 15 47 18.2 -5.0

JANG Nango 8.84 238 eP Pn 15 48 54.2 -8.9

MIJAR Matsushiro Arr 13.34 233 P Pn 15 49 30.1 +4.4

KSRS Korea Array 19.27 254 P Pn 15 49 35.0 -1.9

NVAR Min Array Bea 64.11 61 P Pn 15 55 41.6 -2.4

WRA Warramunga Arr 66.90 197 P Pn 15 56 03.2 +1.4

ASAR Alice Springs 70.61 197 P Pn 15 56 27.2 +2.5

IDC 29 15:54:10.3:3.0, 43:31N-81:72E, h0km, mbmp3.4/6, ML3.0/5, Error ellipse: s-maj=30.1km s-min=27.8km az=139.0

SOME 29 15:54:11.9, 43:33N-81:75E, h15km

NINC 29 15:54:20.0:1.4, 43:97N-81:78E, h0km, mb4.1, mpv3.8, Error ellipse: s-maj=17.8km s-min=5.4km az=137.0

ISC 29 15:54:18.6:2.0, 43:38N:0:1:81:38E:0.09, h10km, n32, @180/35, 11C-1D, Northern Xinjiang

Table with columns: Code, Station Name, Az, Az, Phase ID, Time, Res, ISC. Includes stations like PDGK, PDGK, KNOS, KNOS, UZB, UZB, KPKS, KPKS, KPKS, KPKS, BLB, BLB, BLB, BLB, ARXS, ARXS, MAKZ, MAKZ, MAKZ, MAKZ.

ISC @E:42nm,0.8s
MK31 Makanchi Array 3.03 12 Pn 15 55 07.9 +1.3

ISC @E:1.94nm,0.5s
MKAR Makanchi Array 3.03 12 Pn 15 55 08.0 +1.4

ISC @N:40nm,0.6s
MKAR Makanchi Array 3.03 12 Pn 15 55 08.0 +1.4

ISC @N:0.5nm,0.8s
KOTS Kotrybulak 3.16 261 eP Pn 15 55 14.6 -0.3

ISC @N:0.5nm,0.8s
CHHK Chushlyak 3.18 272 Pn Pn 15 55 17.6 +0.6

ISC @N:0.5nm,0.8s
CHHK Chushlyak 3.18 272 eP Pn 15 55 17.6 +0.6

ISC @N:0.5nm,0.8s
KNDK Almaty 3.27 261 eP Pn 15 55 18.5 +1.9

ISC @N:0.5nm,0.8s
KTBS Karatobe 3.41 270 Pn Pn 15 55 18.9 -0.1

ISC @N:0.5nm,0.8s
MTBS Matube 3.67 261 Pn Pn 15 55 23.2 -0.4

ISC @N:0.5nm,0.8s
KST Kastek 4.02 261 eP Pn 15 55 29.6 0.0

ISC @N:0.5nm,0.8s
KST Kastek 4.02 261 eP Pn 15 55 29.6 0.0

ISC @N:0.5nm,0.8s
KRBS Karabastau 4.13 270 Pn Pn 15 55 32.7 +1.3

ISC @N:0.5nm,0.8s
TKM2 Tokmak 2 4.31 260 eP Pn 15 55 37.0 +2.4

ISC @N:0.5nm,0.8s
ZSN Zaisan 4.37 33 eP Pn 15 55 37.3 +1.9

ISC @N:0.5nm,0.8s
WMQ Urumqi 4.57 88 ePn Pn 15 55 24.0 -3.8

ISC @N:2.7nm,0.7s
WMQ Urumqi 4.57 88 ePn Pn 15 55 24.0 -3.8

ISC @E:3.1nm,0.5s
CHMS Chumysh 4.90 262 eP Pn 15 56 53.9

ISC @E:2.9nm,0.1s
SGDS Sogdiny 4.91 268 Pn Pn 15 56 54.3

ISC @E:5.7nm,0.6s
MRKS Merke 6.05 262 Pn Pn 15 56 08.4 +4.3

29d 16h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KURBB Kurchatov Arra, KARATAY Karatay Array, KK31 Karatay Array, ZALV Zalesovo Beam, etc.

IDC 29 15:54:55.9.0.9, 19.02N, 121.20E, h0km, mb3.6/7, mbmp3.6/8, ML3.8/11, MS3.1/6, Error ellipse: s-maj=46.3km s-min=19.0km az=73.0

JMA 29 15:55:01.6.0.5.2.0 N2.2\*12.1E.1, h0km, MV4.2/13, FAR FIELD

ISC 29 15:55:01.2.0.9.19.03N.0.09.121.3E.0.2, h35km, m28, e1512/23, mb3.5/7, MS3.1/6, Philippine Islands region

Main table of station data for the 29d 16h period, listing station names, coordinates, and observation times.

KRSC 29 16:06:42.3.1.2.56.20N.164.29E, h46km, 18km, MI3.7, Komandorsky Islands region

Table of station data for the Komandorsky Islands region, including stations like KBTR Krutoberegovo, KIRRR Kirishiev, etc.

ATH 29 16:07:30.5.40.49N.20.80E, h17km, Md2.6/5, MI3.4/4

TIR 29 16:07:31.6.40.51N.20.74E, h6km, 1km, ML2.8/7, Manual Solution by A.Moschou First location: 2019/06/29 16:08:36, This location: 2020/10/13 06:30:06 ML

Amplitudes are expressed in micrometers, All distances are expressed in degrees Latitude uncertainty: 1 km; Longitude uncertainty: 2 km

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THE 29 16:07:31.1.40.N.1.2.1E.1, h0km, 1km, M2.8/19, MLh2.8/19

BEO 29 16:07:32.7.0.3.40.47N.21.00E, h19km, 3km, ML2.6/9

SKO 29 16:07:33.0.40.47N.20.86E, h11km, ML2.7

ISC 29 16:07:31.9.1.40.47N.0.02.20.78E.0.02, h6km, 6km, n82, e1504/121, Greece-Albania border region

Main table of station data for the 2019 JUN period, listing station names, coordinates, and observation times.

NOCI comp=N, 0.2nm, 0.5s

NOCI comp=N, 0.2nm, 0.5s

NOCI comp=N, 0.2nm, 0.5s

1890

Table of station data for the 1890 period, including stations like TEKS Tekeris, SOKA Soboth, OBKA Obr, etc.

BUI 29 16:20:01.8.24.81N.122.42E, h151km, mB4.6/9, mB4.4/41

NEIC 29 16:20:05.7.2.2.25.04N.109.122.20E:0.07, h156km, 7km, mb4.3/33, Error ellipse: s-maj=12.4km s-min=9.1km az=181.0

ASIES 29 16:20:06.1.25.07N.122.18E, h152km, ML5.1, Mw4.2, Moment Tensor Solution. Moment tensor: Scale 10^22Nm, Mm=2.02, Mss=0.19, Mss=2.21, Mss=0.93, Mss=0.57, Mss=1.16;

Fault plane solution: Mo2.64113x10^22 NP1; o1=175.15000, o31.53000, lambda=118.25000, NP2: o2=27.98000, o62.57000, lambda=73.81000, Principal axes: T P1=16.08000, Azm105.53400, N P1=14.33100, Azm199.75700, P P1=68.19400, Azm329.44000;

JMA 29 16:20:06.4.0.2.25.N.1.122.2E.0.5, h148km, 1km, MD4.1/18, MV4.4/18, TAIWAN REGION

TAP 29 16:20:06.1.25.07N.122.18E, h152km, ML5.1, B

IDC 29 16:20:06.5.1.8.25.13N.122.25E, h162km, 15km, mb3.9/19, mbmp4.3/21, Error ellipse: s-maj=18.0km s-min=11.2km az=62.0

NIED 29 16:20:06.4.24.94N.122.15E, h148km, MW4.6, Moment Tensor Solution. s1 Moment tensor: Scale 10^19Nm, Mm=2.16, Mss=5.93, Mss=8.09, Mss=3.91, Mss=3.84, Mss=3.24;

Fault plane solution: Mo9.51000x10^19 NP1; o2=210.00000, o36.00000, lambda=8.00000, NP2: o304.00000, o84.00000, lambda=145.00000

ISC 29 16:20:05.9.0.5.25.05N.0.03.122.19E.0.02, h158km, 4km, n299, e1911/464, mb4.2/39, 13C-8D, Taiwan region

Main table of station data for the 1890 period, listing station names, coordinates, and observation times.

NOCI comp=N, 0.5nm, 3.7s, comp=E, 5.0nm, 1.1s

NOCI comp=N, 0.5nm, 3.7s, comp=E, 5.0nm, 1.1s

NOCI comp=N, 0.5nm, 3.7s, comp=E, 5.0nm, 1.1s

Table with columns for station name, frequency, and other details. Includes stations like Ninganchiao, Xiwu Township, Zhudong, etc.

Table with columns for station name, frequency, and other details. Includes stations like Fanlu, Donghe, Chiayi, Ta-yu, etc.

Table with columns for station name, frequency, and other details. Includes stations like HHC, PZH, BTO, BTO, etc.





Table with columns: NOA, LR, LR, 17 52 17.6, comp=Z, 4.1nm, 18.2s, baz=55, slow=38, comp=Z, 0.6nm, 0.5s

NOU 29 17:07:41.8, 23:15S, 170:42E, h0km, mb4.5/10, Southeast of Loyalty Islands, Southeast of Loyalty Islands

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Op, ISC, h, m, s, ISC, Time, Res

JMA 29 17:10:23.4-0.2, 30:00N, 0:5, 131:3E, 0.6, h26km, 1km, MD3.9/24, MV3.5/24, E OFF TANEGASHIMA ISLAND

NED 29 17:10:23.4, 30:02N, 131:26E, h26km, MV4.2, Moment Tensor Solution, s3 Moment tensor: Scale 10^15Nm; Mn:1.60; Mw:0.43; Mw:1.17; Mo:0.70; Mw:0.97; Mw:1.35;

Fault plane solution: M2, 300000x1015 NP1: 0.221, 0.0000, 0.25, 0.0000, 0.100, 0.0000, NP2: 0.29, 0.0000, 0.18, 0.0000, 0.18, 0.0000

ISC 29 17:10:25.2, 6.3, 3.077N, 130:03E, h28km, 46km, mb3.7/9, mbmp3.8/13, ML3.0/4 Error ellipse: s-maj=34.9km s-min=18.7km az=95.0

ISC 29 17:10:24.3, 1.7, 30:04N, 0:05, 131:14E, 0:0, h26km, 11km, n27, 0:868/32, mb3.6/6, 6D, Kyushu

Main table with columns: Code, Station Name, A°, AZ°, Phase ID, Op, ISC, h, m, s, ISC, Time, Res

ISC 29 17:14:27.0-0.6, 8:96S, 158:71E, h0km, mb4.0/13, mbmp4.1/14, ML3.7/1, MS4.0/11, Error ellipse: s-maj=17.2km s-min=15.0km az=54.0

NEIC 29 17:14:28.8-1.1, 9:05S, 1:158, 73E, 0:07, h10km, 1km, mb4.6/60, Error ellipse: s-maj=19.9km s-min=9.0km az=208.0

ISC 29 17:14:31.2-0.4, 9:01S, 0:06, 158:73E, 0:05, h29km, n120, 0:1502/101, mb4.5/45, MS4.0/11, Bougainville-Solomon Islands region

Table with columns: Code, Station Name, A°, AZ°, Phase ID, Op, ISC, h, m, s, ISC, Time, Res

Table with columns: ARMA Armidale, 22.31 196 P P, 17 19 27.8 +1.2, CWSA Cobar Meteorol, 25.48 207 P P, 17 19 57.8 +0.8

Table with columns: KDU MTN, 26.04 260 P P, 17 20 02.6 +0.4, MTN MTN, 27.35 260 P P, 17 20 13.3 -0.8

Table with columns: BKZ Black Stump Fm, 33.98 155 P P, 17 21 12.4 0.0, BKZ Black Stump Fm, 33.88 155 P P, 17 21 13.0 +0.5

Table with columns: MAJO Matushiro, 49.25 338 P P, 17 23 16.9 -0.4, MAJO Matushiro, 49.25 338 P P, 17 23 33.8

Table with columns: KSM Kuching, 49.35 280 P P, 17 23 18.3 -0.2, KSM Kuching, 49.35 280 P P, 17 23 40.6

Table with columns: KSR5 Korea Array, 54.48 330 P P, 17 23 56.1 -0.2, KSR5 Korea Array, 54.48 330 P P, 17 23 56.1 -0.2

Table with columns: VYDA Vanda, 68.50 179 P P, 17 25 31.4 +1.0, VYDA Vanda, 68.50 179 P P, 17 25 32.3

Table with columns: YAK Yakutsk, 74.34 346 P P, 17 26 05.8 0.0, YAK Yakutsk, 74.34 346 P P, 17 26 05.8 0.0

Table with columns: YAK K13K, 76.24 17 P P, 17 26 17.4 +0.7, YAK K13K, 76.24 17 P P, 17 26 40.6

Table with columns: YAK K13K, 76.24 17 P P, 17 26 17.4 +0.7, YAK K13K, 76.24 17 P P, 17 26 40.6

Table with columns: YAK K13K, 76.24 17 P P, 17 26 17.4 +0.7, YAK K13K, 76.24 17 P P, 17 26 40.6

Table with columns: YAK K13K, 76.24 17 P P, 17 26 17.4 +0.7, YAK K13K, 76.24 17 P P, 17 26 40.6

Table with columns: G23K Bananza Creek, 84.08 18 Iamb Iamb, 17 27 00.7, J25K Salcha River, 84.36 21 Iamb Iamb, 17 27 15.0

Table with columns: J25K Salcha River, 84.36 21 Iamb Iamb, 17 27 15.0, M27K Mink Creek, 84.44 24 Iamb Iamb, 17 27 12.5

Table with columns: AAK Ala-Archa, 91.82 313 LR LR, 18 08 40.6, BVAR Borovoye Array, 96.13 323 LR LR, 18 15 07.4

Table with columns: AML Almayashu, 4.65 13 P P, 17 18 29.9 +0.3, IUG Iuzhnyy, 4.86 340 Pg Pn, 17 18 32.2 +0.3

Table with columns: UCH 227nm, 0.5s, 4.93 20 P Sn, 17 19 30.3 -1.1, EKS2 Erkin-Say, 5.18 12 P P, 17 19 36.7 +0.6

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9, AAK Ala-Archa, 5.31 18 P Pn, 17 18 38.6 +0.9

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like URZ, URZ, URZ, MWZ, MWZ, TKGZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR, ASAR, ASAR, ASAR, ASAR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SOEI, MORW, MORW, CASY, CASY, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KSP, KSP, CHVC, CHVC, OSTC, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like VRAC, VRAC, VRAC, KRUC, KRUC, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MOA, MOA, MOA, MOA, MOA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PSMG, PSMG, TRN, TRN, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KAPAI, KAPAI, FITZ, FITZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like PUZ, PUZ, RUGZ, RUGZ, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR, ASAR, ASAR, ASAR, ASAR, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ATH, ATH, ATH, ATH, ATH, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like NEST, NEST, NEST, NEST, NEST, etc.

Table with columns: BOSS, MMB, KOMS, SELS, SLES, BBLs, Station Name, Az, El, Azimuth, Elevation, Time, Res.

IDC 29 18:35:55.2-4.2, 2.37N; 128.62E, h222km, 42km, mb3.3/12, mbtmp3.9/12, Error ellipse: s-maj=33.5km s-min=10.8km az=74.0

DJA 29 18:35:57.8-0.6, 2.2N; 6.12E, h216km, 5km, M3/8.10, MLV3.8/10

ISC 29 18:35:57.8-0.7, 2.28N; 0.09-128.29E; 0.09, h250km, n17, s157/19, mb3.6/11, Halmahera

Main table for IDC 29, listing station names, coordinates, and times.

IDC 29 18:41:39.6-7.9, 30.41S; 177.92W, h0km, mb3.3/2, mbtmp3.3/2, Error ellipse: s-maj=328.8km s-min=60.8km az=155.0, Kermadec Islands

Main table for IDC 29, listing station names, coordinates, and times.

UCR 29 18:42:54.6-0.9, 8.34N; 82.82W, h28km, 5km, MW4.0, Fault plane solution: NP1; 324.69000; 874.24000; 37.25000

UPA 29 18:42:55.6-1.2, 8.43N; 82.80W, h19km, 2km, MW3.9, Fault plane solution: NP1; 324.69000; 872.00000; 35.60000

CATAC 29 18:42:55.2-0.7, 8.4N; 8.3W, h6km, 3km, M4.2/12, MLV4.2/12, Error ellipse: s-maj=9.0km s-min=8.0km az=229.9, confirmed

ISC 29 18:42:55.1-0.9, 8.40N; 0.02-82.82W; 0.02, h19km, 2km, n100, s195/140, 24C-18D, Panama-Costa Rica border region

Main table for IDC 29, listing station names, coordinates, and times.

Main table for IDC 29, listing station names, coordinates, and times.

NOU 29 18:45:14.4, 16.00S; 177.58W, h141km, mb4.5/14, Fiji Islands Region

IDC 29 18:45:59.2-7.7, 17.17S; 178.70W, h518km, 29km, mb3.4/15, mbtmp4.2/16, Error ellipse: s-maj=18.8km s-min=13.7km az=86.0

NEIC 29 18:46:00.5-1.5, 17.75S; 0.09-178.6W; 0.1, h541km, 6km, mb4.2/35, Error ellipse: s-maj=19.1km s-min=12.1km az=72.0

ISC 29 18:46:01.7-0.5, 17.75S; 0.09-178.6W; 0.1, h547km, n86, s92/85, mb4.1/30, Fiji Islands region

Main table for IDC 29, listing station names, coordinates, and times.

Main table for IDC 29, listing station names, coordinates, and times.

NEIC 29 18:55:31.4-1.3, 21.64N; 101.143E; 0.2, h293km, 7km, mb3.9/15, Error ellipse: s-maj=24.6km s-min=12.3km az=109.0

IDC 29 18:55:31.2-4.2, 21.69N; 143.12E, h300km, 23km, mb3.2/8, mbtmp3.8/10, Error ellipse: s-maj=34.1km s-min=13.3km az=82.0

ISC 29 18:55:32.5-0.9, 21.74N; 0.09-143.0E; 0.2, h311km, n28, s120/30, mb3.8/15, Mariana Islands region

Main table for IDC 29, listing station names, coordinates, and times.





29d 19h

Table with columns: IUG, luzhnay, 57.83 314, eP, P, 19 09 54.2 +0.4. Includes rows for IUG, CHM, BRKS, BRV, etc.

2019 JUN

Table with columns: G16K, Koyuk River, 74.04 25, P, 19 11 38.4 +0.9. Includes rows for AKT, O15K, D17K, etc.

1898

Table with columns: I20K, Naagheadeneel, 77.25 26, P, 19 11 57.3 +1.4. Includes rows for Q19K, K20K, J20K, etc.



1899

Table with columns for station name, frequency, power, and other technical details. Includes stations like VORR Voronezh, KNK Knik Glacier, VSR Storzhevoje, RAR Rarotonga, etc.

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Table with columns for station name, frequency, power, and other technical details. Includes stations like MENT Mentasta, L26K Log Cabin Wild, E27K Coleen River, M26K Nabesna, etc.

29d 19h

Table with columns for station name, frequency, power, and other technical details. Includes stations like FIA1 FINESS Array S, FIA2 FINESS Array B, FIA3 FINESS Array C, etc.



IDC 29 19:18:30.9,2.6,31.05S:-177.97W, h0km, mb3.9/2, mbtmp3.9/3, MS3.5/1, Error ellipse: s-maj=69.2km s-min=44.0km az=128.0, Kermadec Islands region

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
URZ	Urewera	8.25	208	Op Pn	19 20 31.7	-0.1
URZ	4.7mm,0.8s,baz=60,slow=14,SNR=1.8			Sn	19 21 58.6	-7.2
DZM	0.5mm,0.3s,baz=40,slow=20,SNR=8.2			LR	19 27 18.5	
ASAR	16.55 299 LR comp=Z,162mm,19.8s,baz=250,slow=32			P	19 26 33.0	-0.1
WRA	Alice Springs 43.19 260 PK 1.0mm,0.5s,baz=107,slow=7.5,SNR=36			P	19 26 41.5	-0.1
KBZ	Warramunga Arr 44.15 273 P 1.0mm,0.4s,baz=111,slow=8.1,SNR=14			PKPpdf	19 38 09.9	-0.9
FINES	Khabaz 145.49 303 PKPbc 2.1mm,0.8s,baz=149,slow=5.9,SNR=3.8			PKPpdf	19 38 10.5	-0.2
	FINES Array B 145.77 340 PKPbc 1.5mm,0.8s,baz=52,slow=5.4,SNR=5.6					

IDC 29 19:23:53.7,0.7,56.20N:164.53E, h0km, mb3.9/21, mbtmp3.9/23, ML3.4/4, MS3.6/4, Error ellipse: s-maj=18.5km s-min=12.1km az=165.0

KRSC 29 19:23:54.1, 1.4, 56.09N:164.72E, h42km, mb18, ML4.2

NEIC 29 19:23:55.6, 1.6, 56.20N:164.6E, 0.1, h10km, f1km, mb4.2/30, Error ellipse: s-maj=14.9km s-min=12.8km az=182.0

MOS 29 19:23:57.0, 0.9, 56.09N:164.61E, h45km, mb4.6/4, Error ellipse: s-maj=7.9km s-min=5.4km az=53.7

ISC 29 19:23:54.7, 0.4, 56.14N:164.60E, 0.03, h10km, n362, c121/353, mb4.1/33, MS3.7/5, Komandorsky Islands region

Code	Station Name	Δ°	AZ°	Phase ID	Time	Res
KBTR	Krutoberegovo	1.00	275	Op Pn	19 24 12.5	-1.4
KBTR	1.00 275 Pn			Sg	19 24 25.9	-0.9
KBTR	1.00 275 eP			Pg	19 24 12.5	-1.4
KBTR	1.00 275 eS			Sg	19 24 26.0	-0.9
KBG	Krutoberegovo	1.06	277	PN	19 24 14.0	-1.2
KBG	1.06 277 Pn			Pb	19 24 28.3	-0.6
KBG	1.06 277 eS			Sg	19 24 14.0	-1.2
KBG	1.06 277 eS			Sg	19 24 28.4	-0.6
BKI	Bering	1.22	140	PN	19 24 15.4	-2.3
BKI	1.22 140 Pn			Sb	19 24 30.6	-2.9
BKI	1.22 140 eS			Sb	19 24 15.4	-2.3
BKI	1.22 140 eS			Sb	19 24 30.6	-2.9
ZLN	Zelenaya	2.13	268	PN	19 24 31.5	-2.0
ZLN	2.13 268 Pn			Pb	19 24 31.5	-2.0
CIRR	Tsirik	2.16	271	PN	19 24 32.7	-1.2
CIRR	2.16 271 Pn			Pb	19 24 32.7	-1.2
BZGR	Bezymyanni-Gr	2.20	266	PN	19 24 32.2	-2.4
BZGR	2.20 266 Pn			Sb	19 24 32.2	-2.4
BZGR	2.20 266 eS			Sb	19 24 58.6	0.0
BZGR	2.20 266 eS			Sb	19 24 30.1	-1.3
KLY	Klyuchi	2.21	276	PN	19 24 57.5	-1.2
KLY	2.21 276 Pn			Sb	19 24 30.2	-1.3
KLY	2.21 276 eS			Sb	19 24 58.6	0.0
MKZ	Mys Kozlova	2.28	227	PN	19 24 31.3	-1.0
MKZ	2.28 227 Pn			Sn	19 24 57.6	-2.8
MKZ	2.28 227 eS			Sn	19 24 31.4	-1.0
MKZ	2.28 227 eS			Sn	19 24 57.6	-2.8
BZWR	Bezymyanni-We	2.31	267	PN	19 24 33.8	-2.6
BZWR	2.31 267 Pn			Pb	19 24 33.9	-2.6
BZWR	2.31 267 eP			Pb	19 24 33.7	-2.8
BZWR	2.31 267 eP			Pb	19 24 33.8	-2.8
KIRR	Kirishev	2.40	267	PN	19 24 34.9	+0.8
KIRR	2.40 267 Pn			Sb	19 25 05.0	-2.6
KIRR	2.40 267 eS			Sb	19 24 35.0	+0.8
KIRR	2.40 267 eS			Sb	19 25 05.0	-2.6
KPT	Kopyto	2.46	268	PN	19 24 36.1	-2.9
KPT	2.46 268 Pn			Pb	19 24 36.2	-2.9
KPT	2.46 268 eP			Pb	19 24 37.3	-2.1
KPT	2.46 268 eP			Pb	19 24 37.3	-2.1
KMINR	Kamenistaya	2.48	263	PN	19 24 36.6	+0.4
KMINR	2.48 263 Pn			Pb	19 24 36.7	+0.4
KMINR	2.48 263 eP			Pb	19 24 39.7	+2.0
KMINR	2.48 263 eP			Pb	19 24 37.3	-2.1
TUMD	Tumrok D	2.56	250	PN	19 24 39.7	+2.0
TUMD	2.56 250 Pn			Pb	19 24 39.7	+2.0
TUMD	2.56 250 eP			Pb	19 24 39.7	+2.0
TUMD	2.56 250 eP			Pb	19 24 39.7	+2.0
KOZ	Kozyrevsk	2.65	270	PN	19 24 39.8	-2.5
KOZ	2.65 270 Pn			Pb	19 24 39.8	-2.5
KOZ	2.65 270 eP			Pb	19 24 39.8	-2.5
KOZ	2.65 270 eP			Pb	19 24 39.8	-2.5
SRDR	Sredinnyy	2.73	276	PN	19 24 40.8	-2.2
SRDR	2.73 276 Pn			Pb	19 24 40.8	-2.2
SRDR	2.73 276 eP			Pb	19 24 40.8	-2.2
SRDR	2.73 276 eP			Pb	19 24 40.8	-2.2
OSSR	Ossora	3.23	346	PN	19 24 44.6	+0.7
OSSR	3.23 346 Pn			Pb	19 24 44.6	+0.7
OSSR	3.23 346 eP			Pb	19 24 49.6	-4.0
OSSR	3.23 346 eP			Pb	19 24 49.6	-4.0
ESO	Esso	3.32	269	PN	19 24 56.5	-0.1
ESO	3.32 269 Pn			Pb	19 24 56.5	-0.1
ESO	3.32 269 eP			Pb	19 24 56.5	-0.1
ESO	3.32 269 eP			Pb	19 24 56.5	-0.1
SPN	Mys Shipunski	4.04	223	PN	19 25 02.0	+0.7
SPN	4.04 223 Pn			Pb	19 25 02.0	+0.7
SPN	4.04 223 eP			Pb	19 25 02.1	+0.7
SPN	4.04 223 eP			Pb	19 25 02.1	+0.7
SDLR	Sedlovina	4.38	232	PN	19 25 04.1	+2.1
SDLR	4.38 232 Pn			Pb	19 25 04.1	+2.1
SDLR	4.38 232 eP			Pb	19 25 04.1	+2.1
SDLR	4.38 232 eP			Pb	19 25 04.1	+2.1
KRAR	Koryakskii	4.42	232	PN	19 25 03.9	+1.9
KRAR	4.42 232 Pn			Pb	19 25 03.9	+1.9
KRAR	4.42 232 eP			Pb	19 25 03.9	+1.9
KRAR	4.42 232 eP			Pb	19 25 03.9	+1.9
SMR	Somma	4.43	234	PN	19 25 04.0	+1.9
SMR	4.43 234 Pn			Pb	19 25 04.0	+1.9
SMR	4.43 234 eP			Pb	19 25 04.0	+1.9
SMR	4.43 234 eP			Pb	19 25 04.0	+1.9
KRX	Arik	4.43	234	PN	19 25 03.9	+1.9
KRX	4.43 234 Pn			Pb	19 25 03.9	+1.9
KRX	4.43 234 eP			Pb	19 25 03.9	+1.9
KRX	4.43 234 eP			Pb	19 25 03.9	+1.9
AVH	Avacha	4.45	232	PN	19 25 03.3	+1.1
AVH	4.45 232 Pn			Pb	19 25 03.3	+1.1
AVH	4.45 232 eP			Pb	19 25 03.3	+1.1
AVH	4.45 232 eP			Pb	19 25 03.3	+1.1
UGLR	Uglovaya	4.46	231	PN	19 25 03.4	+1.0
UGLR	4.46 231 Pn			Pb	19 25 03.4	+1.0
UGLR	4.46 231 eP			Pb	19 25 03.4	+1.0
UGLR	4.46 231 eP			Pb	19 25 03.4	+1.0
KOK	Koryaka	4.48	233	PN	19 25 03.2	+1.2
KOK	4.48 233 Pn			Pb	19 25 03.2	+1.2
KOK	4.48 233 eP			Pb	19 25 03.2	+1.2
KOK	4.48 233 eP			Pb	19 25 03.2	+1.2
GNL	Ganally	4.55	240	PN	19 25 05.2	+1.5
GNL	4.55 240 Pn			Pb	19 25 05.2	+1.5
GNL	4.55 240 eP			Pb	19 25 05.2	+1.5
GNL	4.55 240 eP			Pb	19 25 05.2	+1.5
PET	Petropavlovsk	4.66	230	PN	19 25 04.3	+0.3
PET	4.66 230 Pn			Pb	19 25 04.3	+0.3
PET	4.66 230 eS			Sb	19 25 58.8	-0.2
PET	4.66 230 eS			Sb	19 25 58.8	-0.2
PET	comp=Z,21nm,0.4s			pmax		
PET	comp=E,42nm,0.6s			smax		
PET	comp=N,37nm,0.6s			smax		
PEA0B	Petropavlovsk-	5.03	236	PN	19 25 11.7	+1.6
PEA0B	5.03 236 Pn			Pb	19 25 11.7	+1.6
PETK	Petropavlovsk-	5.03	236	PN	19 25 11.7	+1.6
PETK	5.03 236 Pn			Pb	19 25 11.7	+1.6
PETK	5.03 236 eP			Pb	19 25 10.8	+0.7
PETK	5.03 236 eP			Pb	19 25 10.8	+0.7
PETK	comp=N,1.0nm,0.3s,baz=64,slow=17,SNR=8.9			Sn	19 26 09.4	+1.1
RUS	Russkaya	5.15	226	PN	19 25 12.2	+0.5
RUS	5.15 226 Pn			Pb	19 25 12.2	+0.5
RUS	5.15 226 eP			Pb	19 25 12.2	+0.5
RUS	5.15 226 eP			Pb	19 25 12.2	+0.5
GRL	Gorelyy	5.24	229	PN	19 25 15.0	+1.9
GRL	5.24 229 Pn			Pb	19 25 15.0	+1.9
GRL	5.24 229 eP			Pb	19 25 14.9	+1.5
GRL	5.24 229 eP			Pb	19 25 14.9	+1.5
MTRV	Mutnovka	5.25	228	PN	19 25 17.7	+1.9
MTRV	5.25 228 Pn			Pb	19 25 17.7	+1.9
MTRV	5.25 228 eP			Pb	19 25 17.7	+1.9
MTRV	5.25 228 eP			Pb	19 25 17.7	+1.9
ASAK	Asacha	5.44	229	PN	19 25 31.6	+1.3
ASAK	5.44 229 Pn			Pb	19 25 31.6	+1.3
ASAK	5.44 229 eP			Pb	19 25 31.7	+1.3
ASAK	5.44 229 eP			Pb	19 25 31.7	+1.3
SMY	Shemya	6.51	118	PN	19 25 53.4	+0.7
SMY	6.51 118 Pn			Pb	19 25 53.4	+0.7
SMY	6.51 118 eP			Pb	19 25 53.4	+0.7
SMY	6.51 118 eP			Pb	19 25 53.4	+0.7
MA2	Magadan	8.14	301	PN	19 26 07.3	0.0
MA2	8.14 301 Pn			Pb	19 26 07.3	0.0
MA2	comp=N,0.1nm,0.3s,baz=174,slow=21,SNR=0.9			Sn	19 27 11.7	+0.9
SEY	Seymchan	9.20	323	PN	19 27 13.7	+0.3
SEY	9.20 323 Pn			Pb	19 27 13.7	+0.3
SEY	9.20 323 eP			Pb	19 27 13.7	+0.3
SEY	9.20 323 eP			Pb	19 27 13.7	+0.3
SPIA	Saint Paul Is	13.85	75	P	19 27 51.4	-1.9
GAMB	Gambell	14.05	47	P	19 27 58.9	-1.3
M11K	Mekoryuk	15.87	62	P	19 27 59.7	-1.0
YSS	Yuzhno-Sakhali	16.34	245	eP	19 27 59.7	-1.0
YSS	16.34 245 Pn			pmax		
UNV	Unalaska Valle	16.68	86	P	19 27 59.7	-1.0
K13K	Kusilvak Mount	16.73	57	P	19 27 59.	











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F22K	John River	84.12	17	P	P	19 49 14.4 +0.8
CTG	China Glacier	84.18	25	P	P	19 49 15.0 +0.8
PINM	Pinnae	84.22	26	P	P	19 49 15.0 +0.7
E21K	Killik River	84.24	16	P	P	19 49 14.9 +0.7
M26K	Nabesna, AK	84.25	24	P	P	19 49 15.1 +0.7
G23K	Bananza Creek	84.26	18	P	P	19 49 15.1 +0.7
RIDG	Independent Ri	84.27	22	P	P	19 49 14.3 -0.1
RIDG	Independent Ri	84.27	22	P	P	19 49 14.7 +0.3
PNL	Peninsula	84.39	27	P	P	19 49 15.7 +0.6
H24K	Noodor Dome	84.41	20	P	P	19 49 15.4 +0.3
L26K	Log Cabin Wild	84.44	23	P	P	19 49 16.0 +0.7
DOT	Dot Lake	84.51	22	P	P	19 49 15.7 +0.1
C21K	Knifblade Rid	84.52	15	P	P	19 49 16.3 +0.8
B20K	Meade River	84.52	14	P	P	19 49 16.2 +0.7
COLD	Calfoot	84.53	18	P	P	19 49 16.6 +1.0
J25K	Salcha River,	84.56	21	P	P	19 49 16.2 +0.2
O28M	Mount Upton	84.58	26	P	P	19 49 17.5 +1.1
E22K	Anaktuvuk Pass	84.64	17	P	P	19 49 16.9 +0.7
M27K	Edge Creek, AK	84.67	24	P	P	19 49 17.8 +1.2
SCRK	Sand Creek	84.72	22	P	Iamb	19 49 17.4 +0.7
SCRK	Sand Creek	84.72	22	P	Iamb	19 49 18.4
SCRK	Sand Creek	84.72	22	P	P	19 49 17.5 +0.7
B21K	Ikpiqpuik River	84.88	15	P	P	19 49 18.5 +1.2
D22K	Aiyikay River	84.89	16	P	P	19 49 18.8 +1.3
YUK3	Moose Creek	84.96	25	P	P	19 49 19.1 +0.9
YUK8	Steele Glacier	85.01	25	P	P	19 49 19.6 +1.1
L27K	Beaver Creek,	85.05	23	P	P	19 49 19.5 +1.1
O29M	Mount Kennedy	85.06	27	P	P	19 49 19.5 +0.9
G24K	Hadweenzic Riv	85.06	19	P	P	19 49 19.1 +0.8
BCAR	Beaver Creek A	85.07	23	P	P	19 49 19.8 +1.3
S31K	Pelican	85.09	29	P	P	19 49 19.8 +1.2
BVCY	Beaver Creek	85.11	24	P	P	19 49 20.0 +1.3
P29M	Windy Craggy	85.12	27	P	P	19 49 19.6 +0.8
SIT	Sitka	85.15	30	P	P	19 49 19.4 +0.5
J26L	Joseph Creek	85.15	22	P	P	19 49 19.6 +0.6
E23K	Chandalar	85.23	17	P	P	19 49 20.2 +1.0
H25L	Birch Creek	85.35	20	P	P	19 49 20.7 +0.9
M0BC	Moresby Island	85.39	35	P	Iamb	19 49 21.4 +1.1
M0BC	Moresby Island	85.39	35	P	Iamb	19 49 22.8
F24K	Squaw Lake	85.42	18	P	P	19 49 21.2 +1.1
F24K	Squaw Lake	85.42	18	P	P	19 49 21.4 +1.3
YUK6	Outpost Mounta	85.44	26	P	P	19 49 21.9 +1.2
K27K	Chicken	85.46	22	P	P	19 49 21.8 +1.5
ZSN	Zaisan	85.47	319	eP	pmax	19 49 20.5 -0.3
ZSN	Zaisan	85.47	319	eP	pmax	19 49 20.5 -0.3
ZSN	Zaisan	85.47	319	eP	pmax	19 49 20.5 -0.3
D23K	Nanushuk River	85.50	16	P	P	19 49 22.0 +1.5
YUK4	Talbot Arm	85.51	26	P	P	19 49 22.8 +1.9
G25K	Bearman Lake	85.54	19	P	P	19 49 21.7 +1.0
E24K	Your Creek	85.57	18	P	P	19 49 21.5 +0.5
TOLK	Toolik Lake Re	85.60	17	P	P	19 49 21.7 +0.6
CRAG	Craig	85.64	32	P	P	19 49 22.5 +1.1
PLBC	Pleasant Camp	85.67	28	P	P	19 49 22.4 +0.9
B22K	Teshkepuk Lake	85.67	15	P	P	19 49 21.9 +0.6
S32K	Killino	85.69	30	P	P	19 49 22.5 +1.0
P30M	Million Dollar	85.69	27	P	P	19 49 22.8 +1.1
I26K	Coal Creek Min	85.73	21	P	P	19 49 22.3 +0.6
A22K	Sinclair Lake	85.75	14	P	P	19 49 22.2 +0.5
HYT	Haines Junctio	85.77	26	P	Iamb	19 49 23.4 +1.3
HYT	Haines Junctio	85.77	26	P	Iamb	19 49 24.5
HYT	Haines Junctio	85.77	26	P	P	19 49 23.5 +1.3
U33K	Whale Pass	85.89	32	P	P	19 49 23.7 +1.1
R32K	Eaglecrest	86.05	29	P	P	19 49 24.5 +1.1
C23K	Ikliik River	86.07	16	P	P	19 49 24.1 +0.9
M29M	Somme Creek	86.10	25	P	P	19 49 24.6 +0.8
D24K	Happy Valley	86.14	17	P	P	19 49 24.8 +1.2
SKAG	Skagway	86.15	28	P	P	19 49 25.1 +1.3
F25K	Christian River	86.16	19	P	P	19 49 25.1 +1.2
N30M	Aishikik Lake	86.23	26	P	P	19 49 25.3 +1.0
O30N	Mendenhall	86.36	27	P	P	19 49 26.0 +1.0
V35K	Ketchikan	86.38	33	P	P	19 49 26.2 +1.1
WRAK	Wrangell Islan	86.40	31	P	P	19 49 26.1 +1.0
G26K	Porcupine River	86.40	20	P	P	19 49 26.4 +1.4
BMAR	Burnt Mountain	86.41	19	P	P	19 49 26.3 +1.2
I27K	Kandik River	86.44	21	P	P	19 49 26.3 +1.0
E25K	Arctic Village	86.49	18	P	P	19 49 26.4 +1.0
DAWY	Dawson	86.50	23	P	Iamb	19 49 26.4 +0.8
DAWY	Dawson	86.50	23	P	Iamb	19 49 27.9
DAWY	Dawson	86.50	23	P	P	19 49 26.8 +1.3
C24K	Franklin Bluff	86.52	16	P	P	19 49 26.7 +1.2
L29M	L29M	86.55	24	P	P	19 49 27.2 +1.4
F26K	Sheeniek River	86.69	19	P	P	19 49 27.7 +1.2
H27K	Steamboat Moun	86.79	21	P	P	19 49 28.2 +1.2
N31M	Braeburn, Yuko	86.81	26	P	P	19 49 28.5 +1.4
M30M	Minto, Yukon	86.85	25	P	P	19 49 28.2 +0.9
WHY	Whitehorse	86.86	27	P	Iamb	19 49 28.1 +0.7
WHY	Whitehorse	86.86	27	P	Iamb	19 49 29.3
WHY	Whitehorse	86.86	27	P	P	19 49 28.2 +0.7
D25K	Kavik River	86.94	17	P	P	19 49 28.2 +0.6
MK31	Makanchi Array	86.95	318	P	P	19 49 27.6 -0.5

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MK31	Makanchi Array	86.95	318	dP	P	19 49 27.8 -0.4
MKAR	Makanchi Array	86.95	318	P	P	19 49 27.9 -0.3
MKAR	Makanchi Array	86.95	318	P	P	19 49 28.0 -0.2
P32M	Atlin	86.95	28	P	P	19 49 29.0 +1.1
I28M	Miner Creek	86.97	22	P	P	19 49 28.8 +0.9
G27K	Doyon Strip	87.04	20	P	P	19 49 29.6 +1.4
K29M	Barlow Dome	87.13	24	P	P	19 49 30.1 +1.4
J29N	Klonike Camp	87.14	23	P	P	19 49 30.2 +1.5
MAK2	Makanchi	87.16	318	P	P	19 49 28.9 -0.3
MAK2	Makanchi	87.16	318	P	pmax	19 49 28.9 -0.3
MAK2	Makanchi	87.16	318	P	pmax	19 49 28.9 -0.3
Q32M	Nakina River	87.40	29	P	P	19 49 31.3 +1.0
I29M	Ogilvie Camp,	87.52	22	P	P	19 49 31.4 +0.9
S34M	Delegating Cree	87.57	30	P	P	19 49 31.3 +0.5
ZAAO	Zalesovo Array	87.57	325	P	P	19 49 29.8 -1.2
ZALV	Zalesovo Beam	87.57	325	P	P	19 49 29.6 -1.3
ZALV	Zalesovo Beam	87.57	325	P	P	19 49 29.9 -1.1
ZALV	Zalesovo Beam	87.57	325	P	P	19 49 29.6 -1.3
P33M	Teslin, Yukon	87.61	28	P	P	19 49 31.9 +0.7
T35M	Bob Quinn	87.69	31	P	P	19 49 32.6 +1.2
C26K	Camden Bay	87.70	17	P	P	19 49 32.8 +1.6
M31M	Drury Creek, Y	87.71	26	P	P	19 49 32.0 +0.5
E27K	Coleen River	87.77	19	P	P	19 49 33.2 +1.6
N32M	Qul Lake	87.86	27	P	P	19 49 33.3 +1.0
C27K	Jago River	87.89	17	P	P	19 49 33.2 +1.1
H29M	Whitestone	87.90	21	P	P	19 49 33.2 +0.9
J30M	Hart River	87.92	23	P	P	19 49 33.7 +1.1
F28M	Old Crow	88.05	20	P	P	19 49 34.4 +1.2
R33M	Jennings River	88.18	29	P	P	19 49 35.5 +1.5
I30M	Mount Dempster	88.19	23	P	P	19 49 34.5 +0.7
UZB	Uzynbulak	88.24	314	eP	pmax	19 49 34.0 -0.6
UZB	Uzynbulak	88.24	314	eP	pmax	19 49 34.1 -0.6
CBB	Campbell River	88.29	39	P	Iamb	19 49 34.4 0.0
CBB	Campbell River	88.29	39	P	Iamb	19 49 36.8
DLBC	Dease Lake	88.30	30	P	P	19 49 35.6 +1.2
G29M	Pine Creek	88.35	21	P	P	19 49 35.5 +1.1
D27M	Malcolm River	88.51	18	P	P	19 49 36.5 +1.4
PRZ	Przheval'sk	88.53	313	P	P	19 49 36.4 +0.6
PRZ	Przheval'sk	88.53	313	P	pmax	19 49 36.6 +0.6
PRZ	Przheval'sk	88.53	313	P	pmax	19 49 36.6 +0.6
KPKS	Kokpek	88.55	314	eP	P	19 49 35.7 -0.3
KPKS	Kokpek	88.55	314	eP	P	19 49 35.8 -0.3
EPYK	Eagle Plains	88.56	21	P	P	19 49 36.5 +1.0
E28M	Babbage River	88.64	19	P	P	19 49 37.2 +1.4
TARG	Taragay, Kyrgy	88.78	312	P	Iamb	19 49 37.7 +0.2
TARG	Taragay, Kyrgy	88.78	312	P	Iamb	19 52 05.1
TARG	Taragay, Kyrgy	88.78	312	P	pmax	19 49 37.7 +0.2
TARG	Taragay, Kyrgy	88.78	312	P	pmax	19 49 37.7 +0.2
CMB	Columbia Colle	88.85	51	P	P	19 49 37.9 +0.4
CMB	Columbia Colle	88.85	51	P	pmax	19 49 37.9 +0.4
CMB	Columbia Colle	88.85	51	P	pmax	19 49 37.9 +0.4
G30M	tAoh Zraii Njii	89.01	21	P	P	19 49 38.1 +0.5
E29M	Blow River	89.08	19	P	P	19 49 38.4 +0.7
TDK	Taldyqorghan	89.11	316	eP	pmax	19 49 38.2 -0.2
TDK	Taldyqorghan	89.11	316	eP	pmax	19 49 38.2 -0.2
H31M	Peel River	89.20	22	P	P	19 49 39.0 +0.5
MMPY	Sheldon Lake,	89.21	26	P	P	19 49 39.4 +0.8
D28M	Stokes Point	89.25	18	P	P	19 49 39.6 +1.1
GNW	Green Mountain	89.27	42	P	P	19 49 39.5 +0.5
KDJ	Kajisay	89.33	313	P	P	19 49 39.8 0.0
KDJ	Kajisay	89.33	313	P	pmax	19 49 39.8 0.0
KDJ	Kajisay	89.33	313	P	pmax	19 49 39.8 0.0
F30M	Barrier River	89.44	21	P	P	19 49 40.1 +0.6
KSH	Kashi	89.67	310	P	sP	19 49 43.0 +1.6
KSH	Kashi	89.67	310	P	sP	19 49 51.0 -0.3
KSH	Kashi	89.67	310	P	pmax	19 49 51.0 -0.3
G31M	Satah River	89.69	21	P	P	19 49 41.2 +0.7
AAA	Alma-Ata	89.75	314	eP	pmax	19 49 41.5 -0.1
AAA	Alma-Ata	89.75	314	eP	pmax	19 49 41.5 -0.1
AAA	Alma-Ata	89.75	314	eP	pmax	19 49 41.5 -0.1
PAHR	Pal Rah Range	89.96	50	P	P	



29 Jun 1919

Table with columns for station code, name, frequency, and other technical details. Includes stations like NSTT Nanjuang, LIOB Emei, NMLH Miaoli, etc.

2019 JUN

Table with columns for station code, name, frequency, and other technical details. Includes stations like NJ2 comp=E,2um,12.3s, CNSH ChangSha, WHN Wuhan, etc.

1908

Table with columns for station code, name, frequency, and other technical details. Includes stations like SGSI Sangihe, CD2 Chengdu, CD2 comp=Z,90nm,0.9s, etc.



29d 19h

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like MTSU Mount Surprise, QIS Mount Isa, DRK Karamyk, etc.

2019 JUN

Table with columns: ANM, Name, Frequency, Power, Modulation, and other technical details. Includes stations like K13K Kusilvak Mount, CAN Canberra, CNB North Star Dil, etc.

1910

Table with columns: Station Name, Frequency, Power, Modulation, and other technical details. Includes stations like C21K Knifeblade Rid, GNI Garni, B21K Ikpikpuk River, etc.



1911 2019 JUN 29d 19h

MOS	Moscow	69.01	323	eP	P	19 55 13.8	-1.9	SCRK	Sand Creek	71.78	28	P	P	19 55 31.1	-1.6	KIEV	comp=Z,10.0nm,1.2s		pmax	pmax	
MOS	Moscow					19 55 23.7		I26K	Coal Creek Min	71.82	26	P	P	19 55 31.5	-1.1	AK22	Malin Array Si	75.14	319	P	P
HOM	comp=Z,25nm,0.9s Homer	69.02	33	P	P	19 55 14.0	-1.7	J26L	Joseph Creek	71.84	27	P	P	19 55 32.0	-0.9	YUK6	Peelout Mounta	75.14	30	P	P
CAPN	comp=Z,25nm,0.9s Captain Cook N	69.10	32	P	P	19 55 13.6	-2.5	G27K	Doyon Strip	72.05	24	P	P	19 55 33.8	-0.3	H31M	Peel River	75.17	25	P	P
H23K	Yukon River	69.11	26	P	P	19 55 14.0	-2.2	N25K	Chitina, Valde	72.06	30	P	P	19 55 33.9	-0.4	NACGM	Naroch	75.23	324	eP	P
TRF	comp=Z,27.9nm,0.9s Thorofore Moun	69.12	29	P	P	19 55 17.1	+0.7	MENT	Mentasta	72.14	29	P	P	19 55 37.5	+2.8	BR131	Keosauqua Array S	75.23	307	eP	P
TRF	comp=Z,9.1nm,0.8s Thorofore Moun	69.12	29	P	P	19 55 14.1	-2.4	BMRM	Bremner River	72.21	31	P	P	19 55 33.6	-1.5	BRTR	Keosauqua Array B	75.23	307	P	P
SUA	Susitna One	69.19	31	P	P	19 55 15.0	-1.9	H27K	Steenboat Moun	72.25	25	P	P	19 55 35.3	+0.1	BRTR	Keosauqua Array B	75.23	307	P	P
GURO	Guroymak-BITLI	69.21	304	P	P	19 55 17.3	-0.2	E28M	Babbage River	72.36	22	P	P	19 55 35.6	-0.3	O29M	Mount Kennedy	75.25	31	P	P
GURO	Guroymak-BITLI					19 55 35.1		I27K	Kandik River	72.37	26	P	P	19 55 34.8	-1.2	M30M	Minto, Yukon	75.25	28	P	P
E24K	Your Creek	69.22	24	P	P	19 55 15.1	-1.7	D28M	Stokes Point	72.44	22	P	P	19 55 35.7	-0.6	N30M	Aishikkik Lake	75.55	29	P	P
CNPM	China Poot	69.24	33	P	P	19 55 17.6	+0.4	GLB	Gilahina Butte	72.47	30	P	P	19 55 37.7	+1.0	HYT	Haines Junction	75.57	30	P	P
APA	Apatity	69.27	336	iP	P	19 55 26.2	+9.1	GLB	Gilahina Butte					19 55 43.2		HYT	Haines Junction	75.57	30	P	P
APA	comp=Z,11nm,1.1s							F28M	Old Crow	72.51	23	P	P	19 55 35.8	-1.0	A36M	Sachs Harbour	75.60	17	P	P
CUT	comp=Z,600nm,19.0s Chulitna	69.28	30	P	P	19 55 15.5	-1.7	KAIM	Kayak Island	72.55	32	P	P	19 55 36.0	-1.1	ANTO	Ankara	75.81	307	P	P
I23K	Minto, Yukon-K	69.28	27	P	P	19 55 16.2	-1.0	K27K	Chicken	72.59	27	P	P	19 55 36.3	-1.0	ANTO	Ankara	75.81	307	P	P
M22K	Willow	69.45	31	P	P	19 55 17.2	-1.0	M26K	Nabesna, AK	72.60	29	P	P	19 55 35.6	-1.9	ANTO	Ankara	75.81	307	P	P
NEA2	Nenana	69.49	27	P	P	19 55 16.9	-1.6	VRDI	Verde Repeater	72.69	30	P	P	19 55 38.7	+0.5	P29M	Windy Craggy	75.87	31	P	P
F24K	Squaw Lake	69.52	24	P	P	19 55 17.0	-1.7	VRDI	Verde Repeater					19 55 43.9		M30M	Million Dollar	76.07	30	P	P
MCK	McKinley	69.68	28	P	P	19 55 20.1	+0.4	MCAR	McCarthy VSAT	72.85	30	P	P	19 55 37.3	-1.6	N31M	Braeburn, Yuko	76.13	29	P	P
MCK	McKinley					19 55 25.8		L27K	Beaver Creek	72.95	28	P	P	19 55 38.0	-1.5	LUBAR	Ukrainian	76.19	318	P	P
MCK	McKinley					19 55 20.1	+0.4	BCAR	Beaver Creek A	72.97	28	P	P	19 55 41.2	+1.6	O30N	Mendenhall	76.24	30	P	P
MCK	McKinley					19 55 20.1	+0.4	CRQE	Circle	72.98	31	P	P	19 55 38.7	-1.2	SORM	Soroca	76.37	317	P	P
MCK	McKinley					19 55 20.1	+0.4	E29M	Blow River	73.00	22	P	P	19 55 39.3	-0.4	SORM	Soroca	76.37	317	P	P
MCK	McKinley					19 55 18.4	-1.3	BGLC	Bering Glacier	73.05	31	P	P	19 55 39.3	-0.7	M31M	Dru Creek, Y	76.48	28	P	P
MCK	McKinley					19 55 19.1	-0.8	I28M	Miner Creek	73.09	26	P	P	19 55 39.5	-0.8	PLBC	Pleasant Camp	76.58	31	P	P
MCK	McKinley					19 55 19.6	-0.4	M27K	Edge Creek, AK	73.11	29	P	P	19 55 39.9	-0.7	WHY	Whitehorse	76.84	30	P	P
RC01	Rabbit Creek A	69.73	31	P	P	19 55 18.5	-1.6	GAZ	Gaziantep	73.24	304	P	P	19 55 41.7	-0.1	NDNU	Novodinstrovsk	76.85	317	P	P
RND	Reindeer	69.77	29	P	P	19 55 20.7	+0.3	GAZ	Gaziantep					19 55 43.8		CSS	Mathiatis	76.89	303	P	P
RND	Reindeer					19 55 20.7	+0.3	G29M	Pine Creek	73.40	24	P	P	19 55 40.8	-1.3	CSS	Mathiatis	76.89	303	P	P
RND	Reindeer					19 55 20.7	+0.3	SIM	Simferopol'	73.46	312	eP	P	19 55 43.8	+1.0	RNPPS	Staryi Chorot	76.90	320	P	P
H24K	Noodor Dome	69.79	26	P	P	19 55 18.4	-2.0	SIM	Simferopol'					19 55 43.8	+1.0	FARO	Faro, Yukon	76.92	28	P	P
D25K	Kavik River	69.80	22	P	P	19 55 18.5	-1.9	H29M	Whitestone	73.48	25	P	P	19 55 41.2	-1.4	TLCR	TLCR	76.99	314	P	P
G24K	Hadweenzic Riv	69.81	25	P	P	19 55 18.4	-2.0	BVCY	Beaver Creek	73.55	29	P	P	19 55 41.7	-1.4	TLCR	TLCR	76.99	314	P	P
O22K	Cooper Landing	69.84	32	P	P	19 55 19.2	-1.5	FIA1	FINESS Array S	73.67	330	P	P	19 55 43.4	-0.3	SKAG	Skagway	77.07	31	P	P
PMR	Palmer	69.94	31	P	P	19 55 24.2	+2.9	FIA1	FINESS Array S					19 55 05.7		SKAG	Skagway	77.07	31	P	P
PMR	Palmer					19 55 19.9	-1.4	MESA	MESA	73.68	31	P	P	19 55 43.6	-0.1	SKAG	Skagway	77.07	31	P	P
COLA	College	69.96	27	P	P	19 55 23.8	+2.5	FINES	FINESS Array B	73.67	330	P	P	19 55 43.6	-0.1	SKAG	Skagway	77.07	31	P	P
COLA	College					19 55 19.9	-1.5	FINES	FINESS Array B					19 55 43.7		SKAG	Skagway	77.07	31	P	P
WAT1	Susitna Watana	70.00	29	P	P	19 55 20.1	-1.6	MESA	MESA	73.68	31	P	P	19 55 42.8	-1.3	S31K	Pelican	77.19	32	P	P
RAYN	Ar Rayn	70.01	288	P	P	19 55 22.1	-0.4	DAWY	Dawson	73.71	27	P	P	19 55 42.5	-1.5	HORU	Horodok	77.24	318	P	P
RAYN	Ar Rayn					19 55 23.2	+0.7	CTG	China Glacier	73.75	30	P	P	19 55 42.5	-1.5	TPGR	Toplog	77.36	313	P	P
SEW	Seward	70.04	32	P	P	19 55 20.3	-1.6	CTG	China Glacier					19 55 42.7	-1.7	VABL	Vabl	77.41	315	P	P
C26K	Camden Bay	70.20	22	P	P	19 55 21.5	-1.2	OGIV	Ogilvie Camp,	73.76	26	P	P	19 55 42.8	-1.4	CFR	Carcallu	77.45	314	P	P
KNK	Knik Glacier	70.29	31	P	P	19 55 22.3	-1.2	BNN	Bunyan	73.83	306	P	P	19 55 45.5	+0.2	CFR	Carcallu	77.45	314	P	P
E25K	Arctic Village	70.29	23	P	P	19 55 22.2	-1.2	BNN	Bunyan					19 55 46.9		BORA	Esiksehir	77.53	308	P	P
G25K	Bearmat Lake	70.34	25	P	P	19 55 22.6	-1.1	YUK3	Moose Creek	73.92	29	P	P	19 55 43.4	-2.1	BORA	Esiksehir				
F25K	Christian River	70.36	24	P	P	19 55 23.2	-0.7	F30M	Barrier River	74.00	23	P	P	19 55 44.5	-1.1	P32M	Atlin	77.78	30	P	P
ILAR	Eielson Array	70.38	27	P	P	19 55 23.8	-0.2	G30M	tAoh Zraii Nji	74.05	24	P	P	19 55 44.1	-1.9	PANC	Pancu	77.88	315	P	P
ILAR	Eielson Array					20 28 38.0		EPYK	Eagle Plains	74.06	24	P	P	19 55 44.7	-1.3	R32K	Eaglecrest	77.91	32	P	P
WAT6	Susitna Watana	70.41	29	P	P	19 55 22.9	-1.5	J29N	Klondike Camp	74.08	26	P	P	19 55 44.7	-1.5	P33M	Teslin, Yukon	77.95	30	P	P
HDA	Harding Lake	70.42	27	P	P	19 55 24.2	-0.1	O28M	Mount Upton	74.34	30	P	P	19 55 46.5	-1.5	ODBI	Odobesti	77.98	315	P	P
HDA	Harding Lake					19 55 29.4		YUK8	Steele Glacier	74.38	30	P	P	19 55 46.5	-1.5	SIT	Sitka	77.98	33	P	P
HDA	Harding Lake					19 55 23.1	-1.2	PINM	Pinnacle	74.52	31	P	P	19 55 46.9	-1.9	TESR	Tescan	77.99	315	P	P
PWL	Port Wells	70.45	31	P	P	19 55 23.8	-0.7	L29M	L29M	74.54	28	P	P	19 55 47.1	-1.7	QRZ	Quartz Range	78.14	143	P	P
DHY	Donnell Highway	70.48	29	P	P	19 55 24.1	-0.7	INK	Inuvik	74.56	22	P	P	19 55 47.1	-1.7	QRZ	Quartz Range				
H25L	Birch Creek	70.54	25	P	P	19 55 25.4	+0.5	INK	Inuvik					19 55 49.9	+1.1	S32K	Killisnoe	78.20	33	P	P
M23K	Glacier View	70.56	30	P	P	19 55 25.2	0.0	INK	Inuvik					19 55 49.9	+1.1	PLOR	Plostina	78.22	315	P	P
C27K	Jago River	70.66	22	P	P	19 55 25.8	+0.2	K29M	Barlow Dome	74.56	27	P	P	19 55 46.9	-2.2	PLOR	Plostina				
SCM	Sheep Creek Mo	70.74	30	P	P	19 55 26.3	0.0	I30M	Mount Dempster	74.58	25	P	P	19 55 47.2	-1.9	ONER	Baraj Valea Uz	78.22	315	P	P
SCM	Sheep Creek Mo					19 55 26.3	0.0	M29M	Somme Creek	74.61	28	P	P	19 55 47.2	-1.9	BURAR	Bucovina Array	78.54	317	P	P
SCM	Sheep Creek Mo					19 55 26.2	-0.2	MNK	Minsk	74.74	323	iP	P	19 55 47.8	-1.6	BURAR	Bucovina Array	78.54	317	P	P
BMAR	Burnt Mountain	70.79	24	P	P	19 55 27.3	+0.8	MNK	Minsk												





29d 19h

Table with columns: ID, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like F30M Barrier River, YUK3 Moose Creek, MESA NESA, etc.

2019 JUN

Table with columns: ID, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like RC01 Rabbit Creek A, COLA College, COLA College, etc.

1914

Table with columns: ID, Name, RA, Dec, Mag, Type, and other parameters. Includes entries like P16K Nushagak River, L18K Granite Mount, SDPT Sand Point, etc.

Bul 29 19:51:18.0, 1.29Sx17:55'W, h6km, mb4.9/4, Ms5.3/8, M67 5.0/9
IDC 29 19:51:19.6, 0.5, 1.71S, 12:81'W, h0km, mb4.4/26, mbmp4.4/28, ML4.2/2, MS4.8/65, Error ellipse:
s-maj=22.9km s-min=12.2km az=115.0
NEIC 29 19:51:20.8, 1.71Sx13:01'W, h18km
NEIC 29 19:51:20.8, 1.71Sx13:01'W, h18km, Moment Tensor
Solution. Duration: 287 Moment tensor: Scale 10^17Nm;
Mn:-1.49; Mo:0.00; Ms:1.49; Mw:0.79; Mv:0.25; Mz:2.01;
Fault plane solution: Mo:2.63000x10^17 NPT:0.32000°,
delta 130.0000°, lambda-71.38000°. NP2:160.78000°, delta 72.69000°,
lambda-96.03000°. Principal axes: T 2.6301, P1627.0000°,
Azim256.0000°; N 0.0025, P166.0000°, Azim163.0000°; P
2.9236, P162.0000°. Azim2.0000°
NEIC 29 19:51:20.8, 1.71Sx13:01'W, h10km, 1km,
mb5.0/11.2 Ms. 2.0/354, Mw5.5/29, Error ellipse:
s-maj=17.0km s-min=12.6km az=123.0
GCMT 29 19:51:22.8, 0.1, 1.66S, 0:10x12:95'W, h12km,
MW5.4/163, Moment Tensor Solution. s107.c167;
s163.c333; Duration: 1s3 Moment tensor: Scale 10^17







1917

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SDCO Great Sand Dun, ANMO Albuquerque, PALK Palikele, MKAR Makanchi Array, etc.

CNRM 29 19:59:01.5, 37.35N:2.59W, h0km, ML2.3
MDD 29 19:59:04.2, 0.2, 37.38N:2.56W, h4km, 1km, mb\_Lg2.4/31,
Error ellipse: s-maj=2.0km s-min=1.3km az=162.0
SFS 29 19:59:05.5, 37.19N:2.55W, h29km, ML2.5/8, ML2.4/8,
MLV2.4/8
INMG 29 19:59:05.0, 1.5, 37.37N:2.52W, h12km, 3km, ML2.3, Error
ellipse: s-maj=2.1km s-min=1.9km az=162.0
#DIST\_RANGE: REGIONAL #FMA\_REGION: S Almeria
(ESP)

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ENIJ Nijar, ENIJ Nijar, ENIJ Nijar, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like E0803 Ubeda,Jaen, E0802 Ubeda,Jaen, E0802 Ubeda,Jaen, etc.

IDC 29 19:59:20.1, 0.6, 1.64S: 12.96W, h0km, mb4.3/22,
mbmp4.3/24, ML4.0/2, Error ellipse: s-maj=2.3, 1.3km
NEIC 29 19:59:22.0, 1.3, 1.64S: 0.09:12.74W:0.10, h10km, 1km,
mb4.9/60, Error ellipse: s-maj=16.7km s-min=14.1km
az=296.0
GCMT 29 19:59:23.5, 0.4, 1.52S: 0.04:12.99W:0.03, h23km, 1km,
MW5.0/74, Moment Tensor Solution. s14,c14; s74,c92;
Duration: 0 Moment tensor: Scale 10^10Nm; Mir-4.31e5;
Mw0.77z:22; Mw0.35z:27; Mw1.47z:28; Mw0.17z:11;
Mw1.03z:27; Best double couple: Mw0.253000x1016
NP1.3044.000000, 640.000000, -1.13.000000. NP2:
ep1.93.000000, 654.000000, -1.72.000000. Principal axes:
T 3.6730, P1g7.0000, Azm2.0000, P -1.1630;
P1g15.0000, Azm2.0000, P -4.8340, P1g7.0000;
Azm154.0000, Azm2.0000, P -4.8340, P1g7.0000;
Azm154.0000, Azm2.0000, P -4.8340, P1g7.0000;
ns1a2 refers to surface waves, cutoff=40s.
ns1a2 refers to surface waves, cutoff=50s. Triangular
moment-rate function
BGR 29 19:59:27.9, 0.66S:12.77W, h10km, mb4.7
ISC 29 19:59:22.1, 0.4, 1.62S:0.07:12.82W:0.08, h14km, 1m65,
e1509/163, mb4.8/40, 4C-6D, North of Ascension Island

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like H10N2 ASCENSION HYDR, H10N1 ASCENSION HYDR, etc.

29d 19h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like ACRC Accra, SHEL Horse Pasture, MBO MBO, etc.

29d 20h

Table with columns: Call Sign, Frequency, Mode, Power, and other technical details. Includes stations like GERES, RONA, KHC, etc.

2019 JUN

Table with columns: Code, Station Name, Frequency, Mode, Power, and other technical details. Includes stations like mbmp4.2/18, MLL4.0/2, MS3.5/2, etc.

1918

Table with columns: Call Sign, Frequency, Mode, Power, and other technical details. Includes stations like ZIIG, ZIIG, ZIIG, etc.

1919

PLID	comp=Z,5.7nm,0.7s,baz=182,slow=9.8,SNR=8.5	PEARL Lake	35.69 333	I	Amb	P	20 12 04.8 +0.5	20 12 07.5
BPMT	comp=Z,8.3nm,0.9s	Black Pine Rid	35.74 337	P	P	P	20 12 05.5 +0.8	20 12 30.4 +1.8
HOOD		Mount Hood Mea	38.56 328	P	P	P	20 13 01.5 +0.8	20 13 13.6 -0.5
LLL		Lillooet	42.47 334	P	P	P	20 13 14.6	
FCC		Fort Churchill	44.15 360	I	Amb	P	20 13 17.8 +0.4	
SIV	comp=Z,7.6nm,0.8s	San Ignacio	44.49 132	P	P	P	20 14 00.7 +1.2	20 14 01.6 +1.9
TOAD	comp=Z,1.4nm,0.7s,baz=316,slow=6.5,SNR=4.9	Toad River Com	49.94 339	P	P	P	20 14 00.5 +0.4	20 14 02.1
V35K		Ketchikan	49.98 333	P	P	P	20 14 01.1 +0.7	20 14 01.3 +1.0
YKAW1		Yellowknife Wh	50.04 348	I	Amb	I	20 15 01.1 +0.1	
YKAW1	comp=Z,1.6nm,0.8s	Yellowknife Ar	50.07 348	P	P	P	20 15 01.1 +0.1	
YKA	comp=Z,1.4nm,0.7s,baz=145,slow=6.9,SNR=5.1	Yellowknife Ar	50.07 348	P	P	P	20 15 01.1 +0.1	
YKA	comp=Z,7.2nm,0.8s,baz=145,slow=6.9,SNR=5.1	Yellowknife Ar	50.07 348	P	P	P	20 15 01.1 +0.1	
T35M	comp=Z,0.9nm,0.8s,baz=142,slow=3.1,SNR=3.5	Bob Quinn	50.48 335	P	P	P	20 14 04.2 +0.6	20 14 06.0 +2.1
KOTAN		Kotanelee Air	50.54 341	P	P	P	20 14 06.0 +2.1	20 14 06.8 +1.9
LIRD		Liard River Hi	50.66 339	P	P	P	20 14 06.7 +1.2	20 14 09.8 +1.4
CRAG		Craig	50.74 332	P	P	P	20 14 11.8 +1.4	20 14 12.3 +1.4
U33K		Whale Pass	51.13 333	P	P	P	20 14 17.0 +0.8	20 14 18.4 +0.4
DLBC		Dease Lake	51.38 337	P	P	P	20 14 21.3 +1.9	20 14 23.9
S34M		Telegraph Cree	51.46 336	P	P	P	20 14 21.1 +1.5	20 14 21.5 +1.6
CFA	comp=Z,1.4nm,0.7s,baz=0.4,slow=8.3,SNR=4.1	Coronel Fontan	52.12 152	P	P	P	20 14 23.2 +2.3	20 14 23.7 +1.7
R33M		Jennings River	52.39 337	P	P	P	20 14 24.2 +1.3	20 14 28.0 +1.4
R33M		Jennings River	52.39 337	P	P	P	20 14 29.0 +2.3	20 14 29.0 +1.9
S32K		Killisnoo	52.60 334	P	P	P	20 14 29.5 +2.2	20 14 36.4 +1.4
Q32M		Nakina River	52.60 336	I	Amb	I	20 14 36.5 +1.5	20 14 40.3 +1.8
Q32M	comp=Z,4.8nm,0.9s	Nakina River	52.60 336	P	P	P	20 14 41.1 +2.5	20 14 40.0 +1.3
SIT		Sitka	52.68 333	P	P	P	20 14 42.4 +1.3	20 14 44.8 +1.7
WRGLY		Wrigley	52.82 344	P	P	P	20 14 45.4 +1.7	20 14 48.8 +0.8
TGTN		Hyland Airport	52.95 340	P	P	P	20 14 49.6 +1.6	20 14 49.7 +1.1
R32K		Eaglecrest	53.07 335	P	P	P	20 14 50.4 +1.8	20 14 52.2 +1.4
P31M		Atlin	53.58 336	P	P	P	20 14 52.7 +1.2	20 14 53.2 +0.7
S31K		Pelican	53.61 334	P	P	P	20 14 53.6 +1.1	20 14 54.8 +1.2
P33M		Teslin, Yukon	53.64 337	P	P	P	20 14 55.8 +1.1	20 14 56.1 +1.0
R31K		City Hall, Gus	53.67 334	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
BDFB		Brasilia	54.45 122	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
BDFB	comp=Z,6.3nm,0.9s	Brasilia	54.45 122	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
BDFB	comp=Z,3.8nm,0.7s,baz=236,slow=6.3,SNR=6.0	Brasilia	54.45 122	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
PLBC	comp=Z,3.8nm,0.7s	Pleasant Creek	54.55 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
WHY		Whitehorse	54.71 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
MMPY		Sheldon Lake,	54.72 340	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
MMPY	comp=Z,6.4nm,0.9s	Sheldon Lake,	54.72 340	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
P30M		Million Dollar	55.20 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
P29M		Windy Craggy	55.22 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
Q30N		Mendenhall	55.24 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
ILON		Ilgoolik, Nuna	55.34 5	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M31M		Drury Creek, Y	55.52 338	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
N31M		Braeburn, Yuko	55.57 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
HYT		Haines Junctio	55.83 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
P29L		Peninsula	55.94 334	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
Q30M		Mount Kennedy	55.95 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
N30M		Aishikik Lake	56.05 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
YUK6		Outpost Mounta	56.24 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
PINM		Pinnacle	56.53 334	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
YUK4		Talbot Arm	56.59 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M30M		Minto, Yukon	56.62 338	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
M30M	comp=Z,4.7nm,1.2s	Minto, Yukon	56.62 338	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
O28M		Mount Upton	56.88 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
YUK8		Steele Glacier	56.99 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M29M		Somme Creek	57.16 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M29M		Somme Creek	57.16 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
MESA		MESA	57.30 334	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
L29M		L29M	57.44 338	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
CTG		Chitna Glacier	57.46 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
GRNC		Granite Creek	57.51 334	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
GRNC	comp=Z,7.7nm,1.0s	Granite Creek	57.51 334	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
YUK3		Moose Creek	57.55 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
K29M		Barlow Dome	57.66 339	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
J30M		Hart River	57.72 340	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
H31M		Peel River	57.89 342	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
BVCY		Beaver Creek	58.06 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
I30M		Mount Dempster	58.15 340	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
KAIM		Kayak Island	58.24 333	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
MCARA		McCarthy VSAT	58.37 335	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M27K		Edge Creek, AK	58.42 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
DAWY		Dawson	58.46 338	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
G31M		Satah River	58.63 343	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
G31M	comp=Z,6.8nm,0.9s	Satah River	58.63 343	I	Amb	I	20 14 57.0 +1.0	20 14 57.0 +1.0
BCAR		Beaver Creek A	58.77 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
L27K		Beaver Creek,	58.79 337	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
BMRM		Bremner River	58.83 334	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
I29M		Ogilvie Camp,	58.87 340	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
Q23K		Middleton Isla	58.88 332	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
M26K		Nabesna, AK	58.89 336	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0
POIN		Pond Inlet	58.91 6	P	P	P	20 14 57.0 +1.0	20 14 57.0 +1.0

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POIN	comp=Z,5.1nm,0.9s	Eagle Plains	59.00 341	P	P	P	20 15 05.6	20 15 06.9 +1.7
EPYK		Eagle Plains	59.00 341	P	P	P	20 15 06.9 +1.7	20 15 07.6 +1.5
EYAK		Cordova Ski Ar	59.12 333	P	P	P	20 15 07.6 +1.5	20 15 07.6 +1.3
N25K		Chitna, Valde	59.14 335	P	P	P	20 15 07.8 +1.2	20 15 08.6 +1.7
PLCA	comp=Z,1.7nm,1.0s,baz=282,slow=6.3,SNR=2.9	Paso Flores	59.14 159	P	P	P	20 15 08.6 +1.7	20 15 09.8 +2.0
G30M		Aoah Zraii Nji	59.24 342	P	P	P	20 15 09.8 +2.0	20 15 09.8 +2.0
L26K		Log Cabin Wild	59.35 336	P	P	P	20 15 09.8 +2.0	20 15 09.8 +2.0
INK		Inuvik	59.38 344	P	P	P	20 15 09.8 +2.0	20 15 09.4 +1.6
INK		Inuvik	59.38 344	P	P	P	20 15 09.4 +1.6	20 15 10.1 +2.0
K27K		Chicken	59.41 338	P	P	P	20 15 10.1 +2.0	20 15 10.5
H29M		Whitestone	59.42 341	I	Amb	I	20 15 10.5	20 15 09.7 +1.5
H29M	comp=Z,6.0nm,0.9s	Whitestone	59.42 341	I	Amb	I	20 15 09.7 +1.5	20 15 09.7 +1.2
I28M	comp=Z,28.8nm,5.2	Miner Creek	59.47 340	P	P	P	20 15 09.7 +1.2	20 15 09.8 +0.9
F30M		Barter River	59.53 343	P	P	P	20 15 10.6 +1.1	20 15 11.0 +1.2
P23K		Montague Islan	59.61 332	P	P	P	20 15 11.0 +1.2	20 15 11.4 +1.0
KLU		Klutina	59.64 334	P	P	P	20 15 11.4 +1.0	20 15 11.7 +1.1
G29M		Pine Creek	59.74 342	P	P	P	20 15 12.7 +1.4	20 15 13.6 +1.1
HARP		HAARP	59.76 335	P	P	P	20 15 13.6 +1.1	20 15 13.5 +0.5
GLI		Glacier Island	59.87 333	P	P	P	20 15 14.6 +1.6	20 15 12.8 -0.2
M24K		Tolsona, Glenn	60.04 335	P	P	P	20 15 14.0	20 15 13.7 +0.4
SCRK		Sand Creek	60.09 337	P	P	P	20 15 15.4	20 15 14.3 +0.9
I27K		Kandik River	60.13 339	P	P	P	20 15 15.3 +1.6	20 15 14.8 +0.5
RES		Resolute Bay	60.15 360	I	Amb	I	20 15 14.8 +0.5	20 15 15.0 +0.6
RES	comp=Z,4.4nm,0.9s	Resolute Bay	60.15 360	I	Amb	I	20 15 15.0 +0.6	20 15 15.5 +1.5
PAX		Paxson	60.16 336	P	P	P	20 15 15.5 +1.5	20 15 15.6 +0.3
PAX	comp=Z,3.8nm,0.8s	Paxson	60.16 336	P	P	P	20 15 15.6 +0.3	20 15 18.0
J26L		Joseph Creek	60.21 338	P	P	P	20 15 17.7 +1.5	20 15 17.3 +0.9
RIDG		Independent Ri	60.30 337	P	P	P	20 15 18.1 +1.7	20 15 18.0 +1.1
RIDG		Independent Ri	60.30 337	P	P	P	20 15 18.0 +1.1	20 15 18.4 +1.5
A36M		Sachs Harbour	60.35 349	P	P	P	20 15 17.4 +1.5	20 15 17.7 +1.5
SCM		Sheep Creek Mo	60.39 334	P	P	P	20 15 17.7 +1.5	20 15 17.3 +0.9
PWL		Port Wells	60.40 333	P	P	P	20 15 17.3 +0.9	20 15 18.1 +1.7
H27K		Steamboat Moun	60.45 340	P	P	P	20 15 18.1 +1.7	20 15

29d 20h

Table with columns: Name, RA, Dec, Az, El, P, S, T, R, etc. Includes stations like NEEM, F19K, E19K, G18K, J16K, L15K, M14K, D20K, H17K, K15K, I17K, A22K, L14K, F18K, D19K, G17K, M13K, B20K, H16K, A21K, F17K, E18K, J14K, C19K, G16K, UNV, E17K, K13K, C18K, G15K, M11K, A19K, B18K, D17K, RDOG, C17K, ANM, NIKH, F14K, C16K, P08K, TNA, SPIA, GAMB, NOR, EKA, ESDC, NC204, DOU, NB2, NOA, NOA, BGES, BCLA, MEM, WLF, WFS, ARCES, ECH, FUORN, BRG, GERES, KRUC, VRAC, TORD, MURB, KURAR, WRA, PZB, CMAH, VAO, SJA, NEIC, IDC, GUC, ISC, Code Station, Name, Az, Phase ID, Time Res, etc.

2019 JUN

Table with columns: Name, RA, Dec, Az, El, P, S, T, R, etc. Includes stations like PB18, AP01, GO01, PB11, PB08, PB08, PB08, PB08, LPAZ, LPAZ, LPB01, PB01, PB01, PB01, PB01, AF01, PB10, PB10, PB10, PB10, PB14, GO02, AC02, SIV, BBS0, NNA, NNA, NNA, PTLB, PTLB, PTLB, PTLB, CZSB, CZSB, CZSB, MURT, BDQN, AGDS, AGDS, CFA, CFA, SALV, CPUP, CPUP, CPUP, SJPY, PDRB, TBGT, ATAH, RPRD, CLDB, TEFE, ITQB, TRCB, TRCB, H03N, H03N, H03N, PTGB, PCMB, MACA, MACA, MACA, NPGB, ITRB, ITRB, ITAB, ITAB, SNDB, CP5B, COHC, COHC, FRTB, ITTB, PLTB.

1920

Table with columns: Name, RA, Dec, Az, El, P, S, T, R, etc. Includes stations like PLTB, PIAT, CNLB, IPMB, TRQA, TRQA, BONI, BDFB, BDFB, MAJ01, OTAV, OTAV, OTAV, FLOC, FLOC, MACB, SPC, SFB, PET01, CRUC, VAO, VAO, PMNB, BBAC, MAL2, POPC, PLCA, PLCA, PLCA, BOAV, PARE, SMTB, BSCB, ROSC, MAN01, JANB, SDBA, DIAM, VAS01, RUSC, RUSC, DUB01, CAM01, SDV, SDV, GUA01, GUA01, NBPS, SOCE, SOCE, RCBR, RCBR, CELP, CELP, GPCR, GPCR, TEIG, TEIG, CAMR, CAMR, 656A, ZAIG, ZAIG, 154A, GOGA, GOGA, HODGE, HODGE, LRAL, LRAL, PAULI, BG3, BG3, V58A, 833A, X46A, CPCT, NATX, TKL, SWET, OXF, PLAL, CLTN, CLTN, WLRN, WLRN, WWT, HPIG, HPIG, MIAR, MIAR, TXAR, TXAR, TXAR, WCVI, WCVI, X34A, X34A, SSSA, SSSA, ACOS, ACOS, DEOK, WMOK, KSPA, KSPA, BINY, BINY, ERPA.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like HDIL Hopedale, WBO Williamsburg, ANMO Albuquerque, SDCO Great Sand Dun, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like PDGK Podgornoye, MRKS Merke, MAK31 Makanchi Array, etc.

Table with columns: Code, Station Name, Az, Phase ID, Time, Res, ISC. Includes stations like ASAR, EIDS, HEH, HHC, DZM, BTO, etc.

DJA 29:20:31.04.9.4.0.15'N.43.14.5'E. h50km, 25km, M5.3/5, mb5.2/5, mb5.3/2, MLV5.4/1, Mw(MB)4.7/2

ISC 29:20:31.11.3.0.4.13.15N.0.05.145.08E.0.08, h35km, n135, r1940/135, mb4.6/61, MS3.9/14, 2D, Mariana Islands

GUMO Guam 0.48 335 Op Pn Sn 20 31 22.8 +1.1

JCJ South Pole Qui 71.65 180 P P 20 25 53.4 +2.2

SWI Davao City (W) 20.11 254 LR P 20 42 01.4

FAKI Fak Fak 20.42 219 P Pn 20 35 47.0 +1.3

JOW Kunigami 20.81 313 P Iamb Iamb 20 35 53.7

JOW Kunigami 20.81 313 P Iamb Iamb 20 35 50.2 +0.4

H11S3 WAKE ISLAND Hy 21.45 73 T T 20 58 39.5

H11S2 WAKE ISLAND Hy 21.47 73 T T 20 58 37.2

H11N1 WAKE ISLAND Hy 21.91 70 T T 20 58 49.8

H11N2 WAKE ISLAND Hy 21.92 70 T T 20 58 51.2

JNU Nakatsue 23.73 329 P P 20 36 19.9 +0.5

MJAR Matsushiro Arr 24.10 346 P P 20 36 22.7 -1.0

MAJO Matushiro 24.10 346 P P 20 36 23.2 -0.5

SSLB Suanglung 25.17 298 P Iamb Iamb 20 36 31.4 -2.2

TPUB Ta-pu 25.28 297 P P 20 36 32.2 -2.4

MRSI Marisa 26.15 243 P P 20 36 42.9 +0.3

MTN Manton Dam 29.29 209 P Iamb Iamb 20 37 09.9 +0.7

SOEI Sokawa 30.74 223 P P 20 37 21.2 -2.3

WBO Warramunga Arr 34.36 198 P Iamb Iamb 20 37 54.8 -0.3

WRA Warramunga Arr 34.54 198 P P 20 37 55.8 -0.9

BNX BinXian 35.77 339 IJ pmx P 20 38 09.8 +2.8

HNS HongShan 36.29 317 IJ pP pP 20 38 11.0 -0.5

FITZ Fitzroy Crossing 36.49 212 P P 20 38 13.5 +0.1

MBWA Marble Bar 42.22 216 P P 20 39 01.1 -0.1

PSA00 Pilbara Seismi 42.48 216 P Iamb P 20 39 03.2 0.0

LZH Lanzhou 43.45 309 eP pP 20 39 11.5 +0.2

ARMa Armadale 43.77 172 P Iamb Iamb 20 39 14.7 +0.9

KULM Kulim 44.48 264 P Iamb Iamb 20 39 18.8 -0.9

CM31 Chiang Mai Arr 44.61 283 P Iamb Iamb 20 39 19.9 -0.7

CMAR Chiang Mai Arr 44.61 283 P Iamb Iamb 20 39 19.9 -0.7

STKA Stephens Creek 44.89 184 P P 20 39 22.6 -0.4

BBOO Buckleboob 45.41 190 P P 20 39 35.3 -0.1

SONM Songino Array 47.20 325 P P 20 39 40.2 -0.7

SONM Songino Array 47.20 325 P P 20 39 40.1 -0.7

GTA Gaotai 47.61 132 eP sP 20 39 41.3 -2.9

ADK Adak 49.34 30 P P 20 39 57.2 +0.2

MAR Makanchi Array 61.94 316 P P 20 41 26.4 -1.3

ZALV Zalesovo Beam 62.10 324 P P 20 41 26.8 -1.7

MAKZ Makanchi 62.16 316 P Iamb Iamb 20 41 27.9 -1.3

K17K Kurchatov 63.41 25 P P 20 41 37.8 +0.6

KURB Kurchatov Arr 65.09 320 P P 20 41 46.6 -1.8

K20K Telida 65.44 26 P Iamb Iamb 20 41 50.3 -0.1

BEAR Bear Paw Mtn. 66.98 25 P P 20 42 01.4 -0.2

ILAR Eielson Array 68.88 25 P P 20 42 09.9 -2.3

J25K Salcha River 69.47 26 P P 20 42 14.9 -1.0

GRNC Granite Creek 70.40 30 P Iamb Iamb 20 42 21.3 -0.6

BCAR Beaver Creek 70.74 27 P P 20 42 23.6 -0.1

R33M Jennings River 75.72 32 P P 20 42 52.6 -0.7

AB31 Akbulak array 77.00 318 P P 20 42 58.9 -1.7





1923

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like TRO Tromso, MORB Mola Rana, LOF Lofoten, etc.

NNC 29:20:47:05.5, 0.4, 43.37N:77.65E, h0km, mb1.9, mpv2.6, Error ellipse: s-maj=4.4km s-min=2.2km az=172.0

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KOTS Kotrybulak, CHKK Chushkaly, etc.

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IDC 29:20:59:26.7-4.7, 2.40S:139.34E, h0km, mb3.4/2, mbtmp3.5/3, ML3.4/1, Error ellipse: s-maj=186.0km s-min=29.7km az=88.0, Near north coast of Irian Jaya

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, ASAR Alice Springs, MKAR Makanchi Array, etc.

TIR 29:21:15:47.0, 40.48N:20.79E, h11km, 1km, Md2.5/4, ML2.2/4, ATH 29:21:15:47.0, 40.47N:20.83E, h9km, 2km, ML2.0/7, Manual Solution by A.Agalas First location: 2019/06/29 21:17:02

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KBN Korca, NEST Nestorio, etc.

IDC 29:21:16:18.1±2.0, 1.60S:12.89W, h0km, mb3.9/5, mbtmp3.9/5, MS3.5/6, Error ellipse: s-maj=121.6km s-min=34.8km az=112.0, North of Ascension Island

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like H10N2 ASCENSION HYDR, DBIC Dibokro, etc.

29d 22h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

KOLA 29:22:02:07.4, 67.66N:34.22E, h0km, ML1.4, Error ellipse: s-maj=4.4km s-min=1.8km az=130.0, Murmansk region, Kiryovsk district

HEL 29:22:02:07.2±0.3, 67.68N:34.18E, h0km, ML1.2, Suspected explosion, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like LVZ Lovozero, APA Apatity Array, etc.

HEL 29:22:03:02.3±0.3, 67.18N:20.58E, h0km, ML1.2, Suspected explosion

UPP 29:22:03:02.1±0.0, 67.19N:20.64E, h0km, ML2.1, Unknown, Sweden

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like DUNU Dundret, MASU Masugnshbyn, etc.

TAP 29:22:11:59.8, 24.81N:121.93E, h10km, 1km, ML1.6, 2C-1D, Bai Tawan

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like EGS Egs, TIPB Shuangxi, etc.



Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like OZJUR, HARR, ROTZ, etc.

TIR 22:28:10.4, 40.41N:20.82E, h5km, 2km, ML2.8/7
SKO 22:28:12.0, 40.47N:20.86E, h16km, ML2.5
BEO 22:28:11.5, 40.40N:20.97E, h3km, 3km, ML2.3/4

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like KBN, NEST, NESTORIO, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like DRME, SRS, SRR, etc.

NEIC 29 22:32:15.4: 1.2, 43.60N:0.03:105.20W:0.04, h0km, 1km, ML3.1/45, Error ellipse: s-maj=6.7km s-min=2.7km

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like RSSD, K2ZA, LAO, etc.

DCMT Dagmar 4.91 8
BOZ Bozeman (W) 5.02 296
BOZ comp=E,12nm,3.6s

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like HWUT, BSUT, TCUT, etc.

CATAC 29 22:42:53.0: 0.3, 12.1N:2.8W:1.1, h35km, M3.0/25, MLV3.0/25, Error ellipse: s-maj=5.2km s-min=2.2km

SNET 29 22:42:54.6: 0.8, 12.35N:88.15W, h25km, 6km, ML3.0
ISC 29 22:42:52.9: 2.5, 12.16N:0.06:88.07W:0.04, h35km, 17km, n59, o:68/71, 7C-7D, Off coast of central America

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like POTN, CRIN, CRIN, etc.

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like PQSS, TECO, CHOH, etc.

IDC 29 23:02:55.8: 1.1, 31.71N:93.67E, h0km, mb3.6/10, mbmp3.6/13, ML3.4/3, Error ellipse: s-maj=41.6km s-min=19.5km az=57.0

ISC 29 23:03:00.4: 0.8, 31.71N:0.1:93.7E:0.2, h35km, n13, o:19/13, mb3.6/10, Xizang

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like CMAR, MKAR, SOMN, etc.

IDC 29 23:03:02.0: 2.0, 6.171S: 13.02W, h0km, mb4.4/22, mbmp4.4/24, ML3.7/2, MS4.0/57, Error ellipse: s-maj=23.4km s-min=12.9km az=121.0

NEIC 29 23:03:04.1: 6.1, 8.88S:0.08:13.00W:0.10, h10km, 1km, mb4.9/103, Error ellipse: s-maj=17.1km s-min=12.7km az=114.0

GCMT 29 23:03:06.4: 0.3, 1.79S:0.03:12.94W:0.02, h12km, 1km, ML4.8/108, Moment Tensor Solution s19:62, e1108:0.46, Duration: 0, Moment tensor: Scale 10^16Nm; Mn=2.21; M1=0.06; M2=0.42; M3=0.36; M4=0.34; M5=0.42; M6=0.42; M7=0.42; M8=0.42; M9=0.42; M10=0.42; M11=0.42; M12=0.42; M13=0.42; M14=0.42; M15=0.42; M16=0.42; M17=0.42; M18=0.42; M19=0.42; M20=0.42; M21=0.42; M22=0.42; M23=0.42; M24=0.42; M25=0.42; M26=0.42; M27=0.42; M28=0.42; M29=0.42; M30=0.42; M31=0.42; M32=0.42; M33=0.42; M34=0.42; M35=0.42; M36=0.42; M37=0.42; M38=0.42; M39=0.42; M40=0.42; M41=0.42; M42=0.42; M43=0.42; M44=0.42; M45=0.42; M46=0.42; M47=0.42; M48=0.42; M49=0.42; M50=0.42; M51=0.42; M52=0.42; M53=0.42; M54=0.42; M55=0.42; M56=0.42; M57=0.42; M58=0.42; M59=0.42; M60=0.42; M61=0.42; M62=0.42; M63=0.42; M64=0.42; M65=0.42; M66=0.42; M67=0.42; M68=0.42; M69=0.42; M70=0.42; M71=0.42; M72=0.42; M73=0.42; M74=0.42; M75=0.42; M76=0.42; M77=0.42; M78=0.42; M79=0.42; M80=0.42; M81=0.42; M82=0.42; M83=0.42; M84=0.42; M85=0.42; 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30d 1h

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like ASAF Jabal al Asfar, AKASG Malin Array Be, GERES GERESS Array B, etc.

IDC 30 00:56:53.3±1.6, 2.51S, 121.40E, h0km, mb3.5/4, mbtmp3.6/5, ML3.5/1, MS3.5/1, Error ellipse: s-maj=37.0km s-min=26.7km az=71.0

DJA 30 00:56:54.7±0.4, 3.34S, 121.12E, h10km, M3.7/9, MLV3/17, ICA 30 00:56:54.5±0.9, 2.57S, 120.05E, h10km, n1.4, r=132/17, mb3.4/4, Sulawesi

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like TTSI Tana Toraja, APPI Ampapa, SPSI Sidrap Palu, etc.

IDC 30 01:01:14.6±8.3, 0.84S, 133.00W, h0km, mb3.8/3, mbtmp3.9/4, ML3.1/1, MS3.2/3, Error ellipse: s-maj=221.9km s-min=85.0km az=162.0, North of Ascension Island

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like H10N2 ASCENSION HYDR 7.10 192, H10N1 ASCENSION HYDR 7.12 192, etc.

IDC 30 01:10:31.4±0.7, 6.85N, 123.77E, h0km, mb4.1/9, mbtmp4.2/10, ML3.7/1, MS3.2/5, Error ellipse: s-maj=18.0km s-min=14.3km az=30.0

DJA 30 01:10:34.1±1.2, 7.1N, 102.12E, h10km, M5.1/7, mb5.0/6, mb5.5/5, MLV5.1/7, MW(mb)5.0/5, MWmp4.5/1, Mwp4.9/1

NEIC 30 01:10:38.9±1.1, 6.92N, 0.08E, 123.88E, 0.07, h5km, gkm, mb4.9/13, Error ellipse: s-maj=13.2km s-min=7.7km az=138.0

ISC 30 01:10:37.9±0.6, 6.86N, 0.06E, 123.89E, 0.07, h46km, n46, r=131/43, mb4.4/15, MS3.1/4, 1C, Mindanao

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like DAV Davao City (W), DAV Davao City (E), DAV Davao City (W), etc.

2019 JUN

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like ASAR Alice Springs, ASAR Alice Springs, ASAR Alice Springs, etc.

IDC 30 01:13:32.0±0.6, 35.96N, 141.18E, h0km, mb4.1/16, mbtmp4.1/19, ML3.6/2, MS3.4/9, Error ellipse: s-maj=16.8km s-min=15.4km az=57.0

NEIC 30 01:13:37.1, 36.06N, 141.10E, h42km, MW4.3, Moment Tensor Solution, s3 Moment tensor: Scale 1015Nm; Mn2.71, Mw-2.32, Mw-0.39, Mw-0.79, Mw-0.09, Mw-0.49;

Fault plane solution: M=2.68000x10^15 NPI, r=79.00000, 8.3700000, 1.76.00000, NP2=277.00000, 854.00000, 1.101.00000

JMA 30 01:13:37.1±0.2, 36.1N, 0.4E, 141.1E, 0.9, h42km, 1km, MD4.3/37, MV4.0/37, E OFF IBARAKI PREF

JMA Felt II J1 at E OFF IBARAKI PREF

NEIC 30 01:13:40.6±1.7, 36.32N, 0.07E, 141.06E, 0.10, h35km, 2km, mb4.5/12, Error ellipse: s-maj=18.2km s-min=3.0km az=133.0

ISC 30 01:13:36.5±1.3, 36.05N, 0.04E, 141.20E, 0.05, h27km, 9gkm, n105, r=157/82, mb4.4/29, MS3.5/11, 5D, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like JIHU Itakohorinouch, JIHU Itakohorinouch, JIHU Itakohorinouch, etc.

1928

Table with columns: Code, Station Name, Az, El, Phase ID, Time, Res. Includes stations like USRK comp=E, 160nm, 20.0s, baz=165, slow=36, NJ2 Nanjing, etc.



LPAZ La Paz 147.33 61 PKPbc 01 33 18.3 -0.5

IDC 30 01:18:38.4 0.9, 39.69N, 54.31E, h0km, mb3.9/18, mbmp4.1/28, M4.1/10, MS3.1/14, Error ellipse: s-maj=18.0km s-min=8.5km az=166.0

NEIC 30 01:18:42.1 2.1, 39.77N, 0.09, 54.52E, 0.04, h26km, 5km, mb4.4/26, Error ellipse: s-maj=12.4km s-min=8.5km az=178.0

MOS 30 01:18:42.4 1.0, 40.05N, 54.39E, h33km, mb4.8/5, Error ellipse: s-maj=7.7km s-min=4.4km az=44.2

NNC 30 01:18:47.5 4.0, 40.04N, 54.94E, h57km, 80km, mb4.0, Error ellipse: s-maj=37.3km s-min=20.9km az=57.0

ISC 30 01:18:43.8 0.5, 40.00N, 0.06, 54.45E, 0.10, h42km, n203, +r199/222, mb4.1/42, MS3.0/7, 20C-21D, Turkmenistan

Table with columns: Code, Station Name, Az, Phase ID, Op, Time, Res, ISC, h, m, s, ISC. Lists various stations like AKHTY, VSHL, DGRG, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, Time, Res, ISC, h, m, s, ISC. Lists various stations like NARN, LPSR, KSH, ARTI, etc.

Table with columns: Code, Station Name, Az, Phase ID, Op, Time, Res, ISC, h, m, s, ISC. Lists various stations like ITM, VYHS, SRO, etc.

NEIC 30 01:40:59.6:1.9, 13.05N, 0.10, 124.6E, 0.1, h85km, 10km, mb4.6/14, Error ellipse: s-maj=18.8km s-min=13.8km az=91.0

IDC 30 01:41:04.2 8.7, 12.88N, 124.00E, h135km, 73km, mb3.9/3, mbmp4.3/4, Error ellipse: s-maj=17.8km s-min=22.1km az=63.0

ISC 30 01:40:60.0 0.6, 13.06N, 0.07, 124.5E, 0.1, h100km, n28, +r1916/26, mb4.4/10, Luzon

Table with columns: Code, Station Name, Az, Phase ID, Op, Time, Res, ISC, h, m, s, ISC. Lists various stations like TGy, YULB, etc.

30d 1h

ASAR Alice Springs 37.65 166 P P 01 48 05.7 +0.2
ASAR Alice Springs 37.65 166 P P 01 48 06.0 +0.5
ASAR comp=Z,2.8nm,0.5s,baz=345,slow=7.6,SNR=55
ASAR comp=Z,2.8nm,0.5s
H11S3 WAKE ISLAND Hy 40.92 77 T T 02 32 12.5
H11S1 WAKE ISLAND Hy 40.93 77 T T 02 32 27.3
H11S2 WAKE ISLAND Hy 40.93 77 T T 02 32 13.5
MORW Morawa 42.66 191 P P 01 48 45.9 -0.9
MORW comp=Z,3.2nm,1.4s
BBOO Buckleboo 46.93 167 P P 01 49 21.4 +0.8
STKA Stephens Creek 47.60 160 P P 01 49 26.8 +0.9
STKA comp=Z,2.4nm,0.9s
STKA Stephens Creek 47.60 160 P P 01 49 26.9 +1.1
KURB Kurchatov Ara 52.79 325 P P 01 50 04.1 -0.7
LVA Lava Point 67.52 37 P P 01 51 44.7 -0.6
H19K Roundabout Mou 73.68 25 P P 01 52 23.3 +0.8
H19K comp=Z,6.8nm,1.4s
IMAR Indian Mountain 74.82 25 P P 01 52 30.7 +1.6
BPAW Bear Paw Mtn. 75.97 27 P P 01 52 37.1 +1.3
BPAW comp=Z,3.3nm,1.0s

IDC 30.1:42:22.2,0.6,50.08N:176:92W,h0km,mb4,1/31,
mbmp4,1/31,MS3,3/12,Error ellipse: s-maj=19.27km
s-min=10.8km az=4.0
NEIC 30.1:42:25.3,1.3,50.27N:176:83W,0.10,h10km,1km,
mb4,3/134,ML3,9/8,ML3,7(AEIC),Error ellipse:
s-maj=8.0km s-min=5.6km az=115.0
AEIC 30.1:42:26.7,2.2,50.10N:176:75W,0.09,h2km,5km,
Error ellipse: s-maj=12.5km s-min=8.2km az=175.0
ISC 30.1:42:26.4,3.0,50.17N:176:81W,0.04,
h2km,20km,n440,r16/389,mb4,2/89,MS3,3/14,

Andreanof Islands

Code Station Name A' AZ' Phase ID Time Res
KIMD Kanaga Island 1.62 351 Pn 01 42 52.2 -1.1
KIMD Kanaga Island 1.70 353 Pn 01 43 12.5 -0.8
KIWB Kanaga Island 1.70 353 Pn 01 42 53.4 -1.0
KIWB Kanaga Island 1.70 353 IAML 01 43 15.1 -0.3
ADK Adak 1.72 2 Pn 01 42 53.3 -1.3
ADK Adak 1.72 2 S Pn 01 43 14.5 -1.3
ADK comp=N,1.1um,0.2s
ADK Adak 1.72 2 P Pn 01 42 52.9 -1.7
ADK Adak 1.72 2 S Pn 01 43 14.4 -1.3
KIKV Kanaga Island 1.73 352 Pn 01 42 54.0 -0.8
KIKV Kanaga Island 1.73 352 Pn 01 43 15.6 -0.4
TAPA Tanaga Point A 1.77 339 Pn 01 42 54.9 -0.4
ADAG Mount Adagadag 1.82 4 Pn 01 42 55.4 -0.6
ADAG Pn 01 43 18.4 +0.1
TASE Tanaga Southea 1.84 335 Pn 01 42 55.8 -0.6
GSCK Great Sitkin C 1.89 12 Pn 01 42 56.1 -0.9
GSCK Great Sitkin C 1.89 12 Pn 01 43 19.9 -0.1
GSIG Igitkin Island 1.91 17 Pn 01 42 56.0 -1.2
GSIG Great Sitkin T 1.94 12 Pn 01 43 19.0 -1.3
GSTR Great Sitkin T 1.99 13 IAML 01 43 20.4 -0.8
GSTR 01 43 29.6
GALA Gareloi Lava P 2.02 323 Pn 01 42 58.3 -0.5
GANO Gareloi North 2.08 323 Pn 01 42 58.8 -0.8
ATKA Atka Island 2.62 38 Pn 01 43 05.8 -1.2
ATKA comp=N,4.56nm,0.7s
ATKA Atka Island 2.62 38 Pn 01 43 06.0 -1.8
ATKA Atka Island 2.62 38 Pn 01 43 05.4 -1.5
ATKA Atka Island 2.62 38 S Pn 01 43 35.4 -2.4
AMKA Amchitka 2.75 298 Pn 01 43 06.7 -2.1
CEPE Semis' Perret 2.87 310 Pn 01 43 10.2 -0.3
CEPE Semis' Perret 2.87 310 Pn 01 43 11.1 -1.1
CEAP Semis' Anvil P 2.93 310 Pn 01 43 11.0 -0.2
CETU Semis' Tuman 2.95 309 Pn 01 43 11.2 -0.3
LSSE Little Sitkin 3.41 303 Pn 01 43 17.4 -0.5
NIKH Nikolski High 5.70 57 Pn 01 43 48.9 -0.3
NIKH Nikolski High 5.70 57 Pn 01 43 48.9 -0.3
NIKH Nikolski High 5.70 57 S Pn 01 44 00.3 -0.7
NIKH Nikolski High 5.70 57 Pn 01 43 48.7 -0.5
OKSP Okmok Steeple 6.13 56 Pn 01 43 54.1 -1.0
SMY Shemya 6.24 298 Pn 01 43 57.6 +1.0
UNV Unalaska Valle 7.35 56 Pn 01 44 12.6 +0.8
UNV Unalaska Valle 7.35 56 Pn 01 44 11.5 -0.3
LVA Lava Point 7.74 55 Pn 01 44 18.3 +1.1
P08K Saint George I 7.77 31 Pn 01 44 16.6 -1.0
AKUT Akutan 7.86 55 Pn 01 44 20.0 +1.1
SPIA Saint Paul Isl 8.03 26 Pn 01 44 20.1 -1.1
FALS False Pass 9.41 55 Pn 01 44 39.8 -0.3
S12K Black Hills 10.48 52 Pn 01 44 53.9 -0.9
S12K Black Hills 10.48 52 Pn 01 44 53.4 -1.4
SDPT Sand Point 11.16 56 Pn 01 45 03.4 -0.7
SDPT Sand Point 11.16 56 Pn 01 45 03.4 -0.7
SDPT Sand Point 11.16 56 Pn 01 45 03.0 -1.1
CHNA Chernabura Isl 11.48 59 Pn 01 45 07.0 -1.3
CHNA Chernabura Isl 11.48 59 Pn 01 45 06.7 -1.7
CHNA Chernabura Isl 11.48 59 Pn 01 45 07.4 -1.0
M11K Mekoryuk 11.87 26 Pn 01 45 12.0 -1.7
CHGN Chignik 12.59 54 Pn 01 45 22.2 -1.4
O14K Tiguykaiuiv M 12.76 39 Pn 01 45 27.1 +1.2
O14K Tiguykaiuiv M 12.76 39 Pn 01 45 23.5 -2.4
M13K Dall Lake 12.78 31 Pn 01 45 23.9 -2.2
N14K Kuskokwak Cree 13.03 36 Pn 01 45 32.2 +2.6
N14K Kuskokwak Cree 13.03 36 Pn 01 45 27.4 -2.2
O15K Ungalikthiuk R 13.30 41 Pn 01 45 33.5 +0.2
O15K Ungalikthiuk R 13.30 41 Pn 01 45 31.3 -2.0
M14K Bethel 13.50 33 Pn 01 45 33.9 -2.1
K13K Kusilvak Mount 13.57 25 Pn 01 45 34.0 -3.0
L14K Kukla Creek 13.69 30 Pn 01 45 35.8 -2.8
N15K Kwethluk River 13.80 37 Pn 01 45 41.3 +1.3
N15K Kwethluk River 13.80 37 Pn 01 45 37.5 -2.6
M15K Kasigluk River 13.92 35 Pn 01 45 39.4 -2.3
GAMB Gambell 13.92 9 Pn 01 45 38.8 -2.9
CHIR Chirikof Islan 13.93 58 Pn 01 45 39.1 -2.8
CHIR Chirikof Islan 13.93 58 Pn 01 45 38.7 -3.2
CHIR Chirikof Islan 13.93 58 Pn 01 45 40.2 -1.6
P16K Nushagak River 14.02 44 Pn 01 45 41.1 -1.9
R17L Mt. Peulik Vol 14.14 50 Pn 01 45 43.1 -1.7
PLK4 Peulik 4 14.14 50 Pn 01 45 43.4 -1.5
O16K Kokwok River B 14.27 41 Pn 01 45 46.3 -0.2
O16K Kokwok River B 14.27 41 Pn 01 45 44.7 -1.8
L15K Ungalak Mounta 14.33 31 Pn 01 45 44.8 -2.5
N16K Nishlik Lake 14.50 38 Pn 01 45 47.8 -1.9
J14K Navaranak Lak 14.54 25 Pn 01 45 47.8 -2.3
Q17K Contact Creek 14.63 48 Pn 01 45 50.2 -1.3

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K15K Wolf Creek Mou 14.77 29 Pn 01 45 55.1 +1.8
K15K Wolf Creek Mou 14.77 29 Pn 01 45 51.8 -1.5
M16K Timber Creek 14.77 36 Pn 01 45 51.9 -1.4
P17K Kvichak River 14.79 45 Pn 01 45 52.4 -1.2
O17K Koliganek Bris 14.79 42 Pn 01 45 52.7 -0.9
S11 Sitkinak Islan 14.90 56 Pn 01 45 52.1 -3.0
S11 Sitkinak Islan 14.90 56 Pn 01 45 54.0 -1.1
L16K Owhat River 15.04 33 Pn 01 45 55.5 -1.4
R18K Karluk 15.07 52 Pn 01 45 55.9 -1.5
N17K Nushagak Hills 15.17 39 Pn 01 45 56.6 -2.0
Q18K Katmai Hardser 15.21 48 Pn 01 45 57.4 -1.9
P18K Big Mountain, 15.43 45 IAMB IAMB 01 46 02.3
P18K Big Mountain, 15.43 45 Pn 01 46 00.1 -2.0
OHAK Old Harbor 15.56 54 Pn 01 46 02.7 -1.1
M17K Holitna River 15.59 36 IAMB IAMB 01 46 13.4
M17K Holitna River 15.59 36 Pn 01 46 02.2 -1.9
ANM Nome 15.65 18 Pn 01 46 03.1 -1.8
O18K Koktuh Hills 15.66 43 Pn 01 46 03.4 -1.6
L17K Donlin 15.73 33 Pn 01 46 05.1 -0.9
N18K Kilae Peak 15.79 40 Pn 01 46 05.7 -1.0
J16K Anvik River 15.80 28 IAMB IAMB 01 46 15.8
J16K Anvik River 15.80 28 Pn 01 46 05.5 -1.3
Q19K Cape Douglas, 15.97 48 Pn 01 46 08.1 -1.0
PETK Petropavlovsk- 16.07 290 Pn 01 46 11.8 +1.4
KDKA Kodiak Island 16.09 52 Pn 01 46 07.2 -3.3
KDKA Kodiak Island 16.09 52 Pn 01 46 05.9 -4.7
KDKA comp=Z,0.4nm,0.3s,baz=214,slow=1.5,SNR=36
KDKA Kodiak Island 16.09 52 Pn 01 49 10.9 +2.9
KDKA Kodiak Island 16.09 52 Pn 01 46 09.9 -0.6
TNA Tin City 16.11 13 Pn 01 46 08.5 -2.3
K17K Iditarod 16.12 32 IAMB IAMB 01 46 19.3
K17K Iditarod 16.12 32 Pn 01 46 09.3 -1.7
O19K Port Alsworth 16.21 43 Pn 01 46 11.2 -0.9
I17K Unalakleet 16.26 23 Pn 01 46 10.3 -2.0
M18K Stoney River 16.26 38 Pn 01 46 12.2 -0.5
F14K Arctic Creek 16.29 16 Pn 01 46 11.9 -1.2
G15K Niutuk 16.31 20 Pn 01 46 12.2 -1.1
J17K VABM Dome 16.35 29 Pn 01 46 13.4 -0.4
L18K Granite Mounta 16.37 35 Pn 01 46 13.8 -0.3
H16K Elim 16.43 23 Pn 01 46 14.2 -0.5
N19K Bonanza Creek 16.45 41 IAMB IAMB 01 46 17.3
N19K Bonanza Creek 16.45 41 Pn 01 46 14.8 -0.4
Q20K Shuyak Island 16.46 50 Pn 01 46 14.0 -1.2
P19K Oil Pt 16.46 46 Pn 01 46 15.3 0.0
F15K North Star Dit 16.81 18 Pn 01 46 19.2 -0.5
O20K Slope Mountain 16.92 45 Pn 01 46 21.1 0.0
G16K Koyuk River 17.03 21 Pn 01 46 22.1 -0.2
L19K White Mountain 17.04 37 IAMB IAMB 01 46 30.6
L19K White Mountain 17.04 37 Pn 01 46 22.8 +0.2
M19K Big River Lodg 17.06 38 Pn 01 46 23.0 +0.1
J18K Innoko River 17.16 32 IAMB IAMB 01 46 32.5
J18K Innoko River 17.16 32 Pn 01 46 24.1 0.0
H17K Granite Mounta 17.26 25 IAMB IAMB 01 46 30.2
H17K Granite Mounta 17.26 25 Pn 01 46 25.5 +0.2
G17K Kwiakik Mounta 17.52 23 Pn 01 46 28.6 +0.1
M20K Styx River 17.56 39 Pn 01 46 29.7 +0.6
L20K Farewell, AK 17.58 37 Pn 01 46 30.4 +1.0
N20K Mount Spurr 17.60 42 Pn 01 46 30.1 +0.5
SPCR Spurr Chakacha 17.60 42 Pn 01 46 29.8 +0.1
H18K Honhosa River 17.85 26 IAMB IAMB 01 46 39.6
H18K Honhosa River 17.85 26 Pn 01 46 32.5 -0.1
J19K Poorman 17.88 31 IAMB IAMB 01 46 41.1
J19K Poorman 17.88 31 Pn 01 46 33.1 +0.2
GCSA Galena City Sc 17.99 28 Pn 01 46 34.3 +0.1
K20K Telida 18.02 34 Pn 01 46 34.6 -0.1
F17K Baldwin Pennin 18.15 20 Pn 01 46 36.0 -0.3
SLKM Skilak Lake 18.19 45 IAMB IAMB 01 46 38.5
SKT Skwentna 18.26 40 Pn 01 46 38.8 +0.4
G18K Tagagawik 18.34 24 Pn 01 46 38.0 +0.3
SUA Sunitna One 18.35 42 Pn 01 46 39.5 +0.7
SEW 18.39 47 Pn 01 46 40.2 +1.0
O22K Cooper Landing 18.41 46 Pn 01 46 39.9 +0.7
PPLA Purkeypile 18.46 37 Pn 01 46 40.6 +0.6
G19K Nunivita River 18.50 32 Pn 01 46 40.3 +0.1
E17K Hotham Inlet 18.57 19 Pn 01 46 41.0 -0.1
RC01 Rabbit Creek A 18.64 44 Pn 01 46 42.5 +0.7
F18K Selawik 18.65 22 Pn 01 46 42.2 +0.4
H19K Roundabout Mou 18.68 27 Pn 01 46 42.3 +0.2
I20K Naaghedeneel 18.78 30 Pn 01 46 44.1 +0.8
CAST Castle Rocks 18.79 36 Pn 01 46 44.4 +0.9
D17K Noatak River 18.87 16 Pn 01 46 44.9 +0.6
G19K Purcey Moun 18.95 25 Pn 01 46 46.3 +1.1
CHUM Lake Minchum 18.96 34 Pn 01 46 46.5 +1.2
CUT Chulitna 18.98 40 Pn 01 46 46.6 +1.0
C16K Lisburne Hills 19.02 13 Pn 01 46 46.5 +0.6
E18K Tukpahleark C 19.12 19 IAMB IAMB 01 46 51.3
E18K Tukpahleark C 19.12 19 Pn 01 46 47.9 +1.0

1930

H20K Anotleneega Mo 19.12 28 P P 01 46 47.7 +0.6
PWL Port Wells 19.18 45 P P 01 46 48.4 +0.8
RDOG Red Dog Mine 19.22 16 P P 01 46 48.4 +0.3
F19K Shaleruckik Mo 19.30 23 IAMB IAMB 01 46 52.8
F19K Shaleruckik Mo 19.30 23 P P 01 46 50.0 +1.0
TRF Thorofore Moun 19.49 37 IAMB IAMB 01 46 59.9
TRF Thorofore Moun 19.49 37 P P 01 46 52.3 +1.0
C17K DeLong Mountai 19.55 15 P P 01 46 52.2 +0.5
BPAW Bear Paw Mtn. 19.57 35 IAMB IAMB 01 46 55.5
BPAW Bear Paw Mtn. 19.57 35 P P 01 46 53.5 +1.4
Q23K Middleton Isla 19.69 50 P P 01 46 54.4 +1.2
GLI Glacier Island 19.76 46 P Pn 01 46 55.7 +0.1
IMAR Indian Mountai 19.80 28 P P 01 46 54.6 +0.1
M23K Glacier View 19.80 43 P P 01 46 55.9 +1.3
H21K Melozitna River 19.88 30 IAMB IAMB 01 46 59.4
H21K Melozitna River 19.88 30 P P 01 46 56.5 +1.2
WAT1 Sunitna Watana 19.89 40 P P 01 46 57.1 +1.6
E19K Redstone River 19.91 22 IAMB IAMB 01 47 01.5
E19K Redstone River 19.91 22 P P 01 46 57.1 +1.4
F20K Avarar Lake 19.99 24 IAMB IAMB 01 47 03.5
F20K Avarar Lake 19.99 24 P P 01 46 57.5 +1.0
SCM Sheep Creek Mo 19.99 43 P P 01 46 58.4 +1.7
RND Reindeer 20.03 38 IAMB IAMB 01 47 01.6
C18K Utukok River 20.05 17 P P 01 47 07.8 +0.6
WAT6 Sunitna Watana 20.11 41 P P 01 46 59.1 +1.0
MCK McKinley 20.16 37 IAMB IAMB 01 47 05.3
MCK McKinley 20.16 37 P P 01 46 59.8 +1.4
MLY Manley 20.18 33 IAMB IAMB 01 47 06.7
MLY Manley 20.18 33 P P 01 47 00.0 +1.3
G21K Allakaket 20.23 27 IAMB IAMB 01 47 06.2
G21K Allakaket 20.23 27 P P 01 47 00.4 +1.3
EYAK Cordova Ski Ar 20.28 47 P P 01 47 01.4 +1.6
DHY Denali Highway 20.48 40 IAMB IAMB 01 47 09.6
DHY Denali Highway 20.48 40 P P 01 47 02.3 +0.3
H22K Ishlitalina Cre 20.49 30 P P 01 47 02.2 +0.2
KLU Klutina 20.50 45 P P 01 47 03.3 +1.1
D19K Kuna River 20.54 20 P P 01 47 03.5 +1.1
NEA2 Nenana 20.54 35 P P 01 47 03.5 +1.0
B18K Kokolik River 20.57 15 P P 01 47 03.9 +1.0
M24K Tolsona, Glenn 20.60 43 P P 01 47 03.9 +0.7
MA2 Magadan 20.70 309 P P 01 47 03.7 -0.6
F21K Alatina River 20.72 26 P IAMB IAMB 01 47 05.6 +1.1
F21K Alatina River 20.72 26 P P 01 47 05.7 +1.2
I23K Minto, Yukon-K 20.73 33 IAMB IAMB 01 47 15.2
I23K Minto, Yukon-K 20.73 33 P P 01 47 06.0 +1.5
C19K Lookout Ridge 20.74 17 P P 01 47 05.5 +0.7
KAIM Kayak Island 20.76 50 P P 01 47 06.0 +1.1
E20K Nigu River 20.79 22 P P 01 47 06.4 +1.2
BMRM Bremt River 20.94 47 P P 01 47 08.1 +1.2
SEY Seymchan 20.99 319 P P 01 47 06.1 -1.3
D20K Etlivuk River 21.04 21 P P 01 47 09.1 +1.1
H23K Yukon River 21.05 32 IAMB IAMB 01 47 18.4
H23K Yukon River 21.05 32 P P 01 47 09.1 +1.0
G22K Bettles 21.10 28 P P 01 47 09.9 +1.4
N25K Chitna, Valde 21.14 45 P P 01 47 10.1 +1.0
HARP HAARP 21.15 43 P P 01 47 10.1 +0.9
PAX Paxon 21.23 41 P P 01 47 11.0 +0.9
HDA Harding Lake 21.25 37 P P 01 47 11.6 +1.5
HDA Harding Lake 21.25 37 IAMB IAMB 01 47 13.1
HDA 21.25 37 P P 01 47 11.4 +1.2
F22K John River 21.29 26 P P 01 47 11.4 +0.9
G23K Bananza Creek 21.42 29 P P 01 47 13.1 +1.1
A19K Wainwright 21.43 15 P P 01 47 12.6 +0.6
K24K Donnelly Dome 21.44 39 P P 01 47 13.2 +1.0
IL31 21.44 36 IAMB IAMB 01 47 31.6
ILAR Eielson Arcti 21.44 36 P P 01 47 11.8 -0.5
ILAR comp=Z,2.2nm,0.7s,baz=231,slow=1.1,SNR=33
ILAR comp=Z,0.7nm,0.8s,baz=233,slow=1.2,SNR=6.2
ILAR comp=Z,4.9nm,19.0s,baz=246,slow=39
E21K Killik River 21.47 23 IAMB IAMB 01 47 30.6
E21K Killik River 21.47 23 P P 01 47 13.4 +0.9
CROE Cirque 21.60 48 P P 01 47 15.4 +1.3
H24K Noodor Dome 21.63 33 IAMB IAMB 01 47 19.5
H24K Noodor Dome 21.63 33 P P 01 47 15.4 +1.1
COLD Coldfoot 21.69 28 IAMB IAMB 01 47 23.9
COLD Coldfoot 21.69 28 P P 01 47 16.1 +1.2
RIDG Independent Ri 21.79 39 P P 01 47 15.9 -0.1
RIDG Independent Ri 21.79 39 IAMB IAMB 01 47 23.1
RIDG Independent Ri 21.79 39 P P 01 47 16.8 +0.7
MCARA McCarthy VSAT 21.79 46 P P 01 47 16.2 +0.2
C21K Knifeblade Rid 21.81 21 P P 01 47 16.9 +0.8
E22K Anaktuvuk Pass 21.82 25 P P 01 47 15.5 -0.8
E22K Anaktuvuk Pass 21.82 25 IAMB IAMB 01 47 26.7
E22K Anaktuvuk Pass 21.82 25 P P 01 47 17.1 +0.8



30d 2h

0.5mm, 0.9s, baz=101, slow=7.5, SNR=2.9
KURBB Kurchatov Arra 73.73 325 LR LR 02 35 34.3

IDC 30 01:50:38.7-0.7, 19:38N-65:15W, h0km, mb3.9/13,
mbmp4.0,16,ML3.6/3,MS3.3/18, Error ellipse:
s-maj=18.4km s-min=15.5km az=81.0
RSPR 30 01:50:42.5, 19:26N-65:06W, h7km, MD4.0/16
NEIC 30 01:50:44.6, 1.3, 19:19N-05:65:23W, 0.05, h35km, 2km,
mb4.4/76, ML4.0/32, MD4.0/16(RSPR), Error ellipse:
s-maj=11.2km s-min=4.5km az=222.0

OSPL 30 01:50:44.1-3.6, 19:32N-65:06W, h31km, 161km, ML3.9
ISC 30 01:50:40.1-1.9, 19:29N-04:45:12W, 0.03, h11km, 12km,
n170, r151/131, mb4.3/49, MS3.4/14, 22C, Puerto Rico
region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists various stations like Col San Antoni, Esperanza - Ma, Patillas Dam, etc.

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Main table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists stations like Nuevo Mundo, Guanantamo Bay, Rinca, etc.

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Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Lists stations like ESCD, TORD, NOA, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like OCHAL Ojochal, BRIBI Bribri, GMAL Guarumal, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like DRK Karamyk, AML Almayashu, AML Almayashu, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like KPKS Kopek, UZB Uzbulak, UZB Uzbulak, etc.

IDC 30 02:48:46.0, 8.2, 69S: 138.73E, h0km, mb3.77, mbmp3.78, ML3.8/1, Error ellipse: s-maj=21.2km s-min=15.9km az=173.0

ISC 30 02:48:52.7, 0.8, 2, 8S: 0.1x138.9E:0.2, h46km, n9, c1934/9, mb3.6/7, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like JAY Jayapura, WRA Warramunga Arr, ASAR Alice Springs, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like DRK Karamyk, AML Almayashu, AML Almayashu, etc.

AEIC 30 02:59:14.6, 0.8, 53:4N:0.2x170:1W:0.2, h162km, gkm, Error ellipse: s-maj=24.0km s-min=9.3km az=155.0

NEIC 30 02:59:14.2, 0.8, 53:2N:0.4x169:8W:0.3, h173km, 16km, ML3.1/16, ML2.7(AEIC), Error ellipse: s-maj=60.7km s-min=2.9km az=158.0

ISC 30 02:59:13.8, 2.3, 53:2N:0.3x169:8W:0.1, h175km, 22km, n37, c075/40, Fox Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like NIKH Nikolski High, NIKH Nikolski High, NIKH Nikolski High, etc.

IDC 30 02:57:16.3x3.6, 24.44S:177.09W, h0km, mb4.2/2, mbmp4.2/2, MS3.1/1, Error ellipse: s-maj=198.0km s-min=49.4km az=155.0

NEIC 30 02:57:22.0, 1.4, 24.7S:0.1x177.0W:0.1, h35km, 2km, mb4.3/10, Error ellipse: s-maj=23.6km s-min=14.0km az=324.0

ISC 30 02:57:21.7, 0.8, 24.7S:0.1x177:1W:0.1, h35km, n19, c079/16, mb4.4/6, South of Fiji Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like NIUE Niue, RAR Rarotonga, BFZ Birch Farm, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like DRK Karamyk, AML Almayashu, AML Almayashu, etc.

JMA 30 03:18:18.6, 0.1, 38:39N:0.2x141:6E:0.4, h73km, MV3.5/39, NORTHERN MIYAGI PREF

JMA Feil I at NORTHERN MIYAGI PREF. IDC 30 03:18:19.2, 5.8, 38:39N:141:66E, h82km, 22km, mb3.4/8, mbmp3.6/11, Error ellipse: s-maj=26.6km s-min=18.0km az=93.0

ISC 30 03:18:18.1, 0.9, 38:39N:0.05x141:72E:0.07, h76km, gkm, n31, c095/34, mb3.8/8, 8D, Near east coast of eastern Honshu

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like OFUJ Ofunato, OFUJ Ofunato, OFUJ Ofunato, etc.

SOME 30 02:57:26.6, 40.43N:73.45E, h15km, KRNET 30 02:57:28.1, 0.1, 40.41N:73.43E, h21km, mb3.5, NNC 30 02:57:29.5, 1.3, 40.58N:73.41E, h0km, mb3.8, mpv3.6, Error ellipse: s-maj=11.6km s-min=5.5km az=173.0

KNET 30 02:57:30.1, 0.3, 40.52N:73.52E, h16km, 2km, ml3.0, Error ellipse: s-maj=3.5km s-min=2.2km az=88.0

ISC 30 02:57:28.6, 1.1, 40:39N:0.03:73:36E:0.02, h10km, gkm, n64, c1829/104, 47C-25D, Kyrgyzstan

Table with columns: Code, Station Name, Az, Az', Phase ID, Op, ISC, Time, Res. Includes stations like SFK Sufi-Kurgan, SFK Sufi-Kurgan, SFK Sufi-Kurgan, etc.







30d 5h

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like H10N1 ASCENSION HYDR 6.55 195 T, H10N3 ASCENSION HYDR 6.55 196 T, DBIC Dimbokro 11.29 44 Pn, etc.

IDC 30 04:57:48.0±1.2, 17.24N:46.18W, h0km, mb3.7/5, mbmp3.9/6, ML3.5/1, MS3.2/20, Error ellipse: s-maj=40.0km s-min=28.1km az=79.0

ISC 30 04:57:49.6±1.2, 17.22N:01.462W:0.2, h10km, n27, c=686/15, mb3.8/5, MS3.2/19, Northern Mid-Atlantic Ridge

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like MDP Montagnes des 13.57 208 Pn, SJG San Juan 19.01 276 LR, RCBR Riachuelo 25.05 155 LR, etc.

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like H10N2 ASCENSION HYDR0.4 126 T, H10N1 ASCENSION HYDR0.6 126 T, SCHO Schefferville 40.76 342 LR, etc.

ASRS 30 05:00:24.0±1.8, 52.77N:83.68E, h25km, earthquakes of Russia in 2019. Obninsk, MG 2.9, 214 p + CD-ROM, 2021.

NNC 30 05:00:29.1±3.6, 52.72N:87.84E, h0km, mb3.9, mpv3.6, 1C-3D, Error ellipse: s-maj=39.0km s-min=10.7km az=74.0, Suspected Mining explosion., Southwestern Siberia

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like ZAAO Zalesovo Array 2.19 305 Pn, MK31 Makanchi Array 6.93 213 Pn, etc.

SOME 30 05:03:31.2, 42.90N:83.68E, h25km, NNC 30 05:03:39.7±4.6, 42.08N:82.88E, h0km, mb3.6, mpv3.3, Error ellipse: s-maj=38.9km s-min=20.7km az=159.0

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Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like PDGK Podgornoye 2.72 294 Op Pn, UZB Uzunbulak 2.99 288 Pn, KPKS Kokpek 3.32 293 Pn, etc.

IDC 30 05:13:00.9±3.4, 31.40S:177.89W, h0km, mb3.8/2, mbmp3.7/3, ML2.9/1, MS3.3/2, Error ellipse: s-maj=76.8km s-min=49.4km az=117.0, Kermadec Islands region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like URZ Urewera 7.98 210 Pn, ASAR Alice Springs 43.16 268 P, WRA Warramunga Arr 44.24 273 P, etc.

WEL 30 05:13:58.3±1.0, 41.54S:177.7E, h14km, 5km, M2.0/10, ML2.3/11, MLv2.0/10, Error ellipse: s-maj=8.0km s-min=3.8km az=124.4, confirmed, North Island

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like ANWZ Angora Road 2.01 337 Op Pn, BFZ Birch Farm 0.26 263 P, CPWZ Castlepoin 0.39 228 P, etc.

IDC 30 05:15:50.4±3.8, 17.28N:46.37W, h0km, mb3.6/3, mbmp3.7/4, ML3.1/1, MS3.0/6, Error ellipse: s-maj=117.1km s-min=33.9km az=97.0, Northern Mid-Atlantic Ridge

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like MDP Montagnes des 13.57 208 Pn, SJG San Juan 18.86 275 LR, PCRV Puerto La Cruz 19.09 251 LR, etc.

H10N3 ASCENSION HYDR0.19 126 T, H10N2 ASCENSION HYDR0.20 126 T, H10N1 ASCENSION HYDR0.21 126 T

TXAR Lajitas Array 53.51 294 P, 0.4mm, 1.0s, baz=93, slow=8.2, SNR=3.7

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like ANMO Albuquerque 55.96 301 LR, PDAR Pinedale Array 58.86 310 LR, ILAR Eielson Array 78.93 335 P, etc.

UCR 30 05:21:27.9±0.9, 8.34N:82.82W, h28km, 1km, MW4.0, Fault plane solution: NP1:φ334.84000°, δ61.98000°, λ-21.88000°

CATAC 30 05:21:28.2±0.7, 8.34N:82.82W, h28km, 3km, M3.8/13, mb3.6/1, mB4.9/1, MLv4.0/13, Mw(mb)4.2/1, Error ellipse: s-maj=9.8km s-min=9.3km az=69.8, confirmed

UPA 30 05:21:28.5±0.9, 8.38N:82.83W, h28km, 4km, ML2.9, ISC 30 05:21:28.5±0.9, 8.37N:0.03:82.82W:0.03, h32km, 6km, n85, c193/100, 21C-17D, Panama-Costa Rica border region

1936

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like LESP3 La Esperanza, 0.05 37 Op Pn, LPPC Paso Canoas, 0.16 35 Op Pn, CDTO Canoas, 0.21 345 P, etc.

TAP 30 05:33:46.9±2.9, 24.92N:122.43E, h17km, ML3.1, C JMA 30 05:33:46.9±2.9, 25.1N:122.4E:0.6, h3km, MV3.3/9, NW OFF:IS/IGAK/JMA/IS

ISC 30 05:33:47.0±1.0, 24.89N:0.02:122.42E:0.02, h11km, 9km, n84, c=678/155, Taiwan region

Table with columns: Code, Station Name, Δ°, AZ°, Phase ID, Time, Res, ISC. Includes stations like TWB1 Santiao Chiao 0.41 287 Op Pn, EGS EGS 0.44 264 P, EOS2 EOS2 0.50 200 P, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists various stations like YM01, ENTT, NHDH, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like DRKO, KAKINT, EDPE, etc.

ISC 30 05:45:07.9, 1.0, 1.88S, 12.13W, h0km, mb4.0/6, mbmp4.1/7, ML3.1/1, MS3.4/27, Error ellipse: s-maj=50.3km s-min=19.7km az=124.0, NEIC 30 05:45:10.3, 2.2, 1.99S, 0.10x11.97W, h10km, 1km, mb4.7/12, Error ellipse: s-maj=19.2km s-min=12.2km az=320.0

ISC 30 05:45:09.7, 0.6, 2.00S, 0.09x12.0W, h1.0, h10km, n47, 0.86E/22, mb4.5/10, MS3.4/26, North of Ascension Island

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like H10N2, H10N1, H10N3, ASCN, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like CO02, CO02, CO02, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like VA01, VA01, VA01, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like H10N2, H10N1, H10N3, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like ROCH, ROCH, ROCH, etc.

UCR 30 05:37:49.7, 0.9, 8.32N, 82.81W, h29km, 2km, MW3.5 UPA 30 05:37:49.7, 1.0, 8.35N, 82.81W, h36km, 8km, MD3.4

ISC 30 05:37:49.7, 1.0, 8.34N, 0.03x82.81W, h0.03, h31km, 7km, n49, 0.87E/62, 2C-1D, Panama-Costa Rica border region

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like LESP3, LPCC, LIMO3, etc.

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like SDV, ROSC, NNA, etc.

SJA 30 05:50:54.1, 0.8, 31.51S, 71.80W, h13km, 4km, ML4.2, MW3.9

GUC 30 05:50:58.8, 0.7, 31.55S, 71.51W, h46km, 3km, ML4.4

ISC 30 05:50:59.3, 0.6, 31.54S, 71.34W, h42km, 4km, mb4.0/10, mbmp4.2/14, ML3.9/4, MS2.6/2, Error ellipse: s-maj=20.5km s-min=13.7km az=95.0, NEIC 30 05:50:59.7, 0.7, 31.51S, 0.01x11.50W, h41km, 7km, mb4.5/36, ML4.4(GUC), Error ellipse: s-maj=8.4km s-min=1.8km az=95.0

ISC 30 05:50:58.7, 0.5, 31.51S, 0.02x71.64W, h0.04, h41km, 4km, n119, 1.96E/136, mb4.5/26, 9C-6D, Near coast of central Chile

Table with columns: Code, Station Name, Az, Op, Phase, ISC, Time, Res, ISC. Lists stations like SJA, GUC, ALF, BRTR, etc.





30d 6h

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like AMPA Desamparados, CORON Coronado, LUJA Lujan, etc.

IDC 30 06:42:33.7z1.5, 1.19S; 128.02E, h10km, mb3.5/4, mbmp3.6/5, ML3.7/1, MS3.4/2, Error ellipse: s-maj=129.3km s-min=21.7km az=70.0, DJA 30 06:42:39.0z0.8, 2.54z12.6E, h45km, 16km, M3.9/6, MLV3.9/6

ISC 30 06:42:38.6z1.1, 1.71S; 10.10z126.75E, 0.08, h35km, n11, c259/10, mb3.6/4, Southern Molucca Sea

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like SANI Sanana, SANI Sanana, NLAJ Namlea, etc.

IDC 30 06:50:07.1z6.9, 7.54S; 128.57E, h101km, 65km, mb3.3/1, mbmp3.9/4, ML4.1/3, MS2.7/1, Error ellipse: s-maj=86.1km s-min=38.3km az=59.0, Banda Sea

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like FITZ Fitzroy Crossi, FITZ Fitzroy Crossi, WRA Warramunga Arr, etc.

IDC 30 06:50:48.5z3.1, 31.50S; 177.84W, h0km, mb4.0/2, mbmp3.9/3, ML3.1/1, Error ellipse: s-maj=73.9km s-min=37.1km az=115.0, Keradec Islands region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like URZ Urewera, URZ Urewera, ASAR Alice Springs, etc.

MOS 30 06:53:44.9z0.9, 43.42N; 142.27E, h157km, mb4.7/33, Error ellipse: s-maj=5.7km s-min=4.5km az=117.5, SKHL 30 06:53:45.6z0.9, 43.30N; 142.30E, h145km, 2km, mb5.5/6, msh6.0/5

NIED 30 06:53:46.6z3.27N, 142.40E, h168km, MW4.5, Moment Tensor Solution, s3 Moment tensor: Scale: 10^15Nm; M=0.31; Mw2.08; Mw1.77; Mw3.19; Mw4.09; Mw4.07; Fault plane solution: M=5.55000x10^15 NP1=12.00000, 354.00000, -179.00000, NP2=282.00000, 889.00000, -36.00000

IDC 30 06:53:46.5z0.5, 43.37N; 142.34E, h167km, 3km, mb4.2/30, mbmp4.6/36, MS2.9/4, Error ellipse: s-maj=9.3km s-min=8.4km az=129.0, JMA 30 06:53:46.6z0.2, 43.3N; 0.6z142.4E, 0.8, h166km, 1km, MD4.5/39, MW4.4/39, KAMIKAWA-SORACHI REGION

JMA Feil Ji at KAMIKAWA-SORACHI REGION, NEIC 30 06:53:46.8z1.6, 43.31N; 0.105z142.3E, 0.1, h168km, 5km, mb4.5/24.0, Error ellipse: s-maj=12.0km s-min=6.9km az=98.0

ISC 30 06:53:46.3z0.4, 43.29N; 0.03z142.39E, 0.03, h168km, 3km, h168km, pP-P, n784, c699/741, mb4.5/216, 35C-31D, Hokkaido region

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like JFR Furan, JFR Furan, JAB Ashibetsu, etc.

2019 JUN

Main table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like JKK2 Kamakawa 2, JKK2 Kamakawa 2, JHR Hokuryu, etc.

1940

Table with columns: Code, Station Name, Az, Phase, ID, Time, Res, ISC. Includes stations like YSS comp=Z,200nm,8.0s, YSS comp=Z,160nm,0.6s, etc.







Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like AS31 Alice Springs, ASAR Alice Springs, ASAR comp=Z, 0.9nm, 0.6s, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like TESR Tescani, KOLS Kolonick sedl, KOLS Kolonick sedl, etc.

Table with columns: Call Sign, Name, Frequency, Mode, Power, Direction, and other parameters. Includes stations like VNA2 Neumayer-Watz, VNA3 Neumayer Olymp 148.78, BDFB Brasilia, etc.



1945

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time Res, h m s, Res. Includes stations like LMN Caledonia Moun, SENIN Las Senin/Sane, SCHQ Schefferville, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time Res, h m s, Res. Includes stations like GMAL Guarumal, DVID David, DVID David, etc.

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time Res, h m s, Res. Includes stations like JMC Jamundí, APAC Apartado, BBAC Balboa, etc.

30d 7h

Table with columns: Code, Station Name, Azimuth, Elevation, Phase ID, Time Res, h m s, Res. Includes stations like IPOC Station P, IPOC Station P, IPOC Station P, etc.

30d 8h

Table with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Includes stations like ITTB Itaituba, PRVC Isla de Provid, QSPA South Pole Qui, etc.

NEIC 30 07:55:33.3 1.6, 38.8N, 0.2-30.3W: 0.1, h10km, 1km, mb4.2/8, Error ellipse: s-maj=31.6km s-min=12.3km az=170.0

IDC 30 07:55:37.2 2.3, 39.62N, 30.10W, h0km, mb3.8/11, mbtmp3.8/11, MS3.2/13, Error ellipse: s-maj=77.0km s-min=21.7km az=169.0

INMG 30 07:55:38.8 1.1, 39.38N, 29.94W, h10km, ML3.5, Error ellipse: s-maj=8.7km s-min=4.6km az=44.0, #DIST\_RANGE: REGIONAL #PMA\_REGION: Crista Mdia Atlantico N

SVSA 30 07:55:38.8 1.1, 39.38N, 29.94W, h10km, ML3.5 (INMG), Error ellipse: s-maj=8.7km s-min=4.6km az=44.0, #DIST\_RANGE: REGIONAL #PMA\_REGION: Crista Mdia Atlantico N

ISC 30 07:55:36.0 0.7, 39.13N, 0.07-29.93W: 0.05, h10km, n90, #179/117, mb4.0/13, MS3.1/13, Azores Islands

Main table of seismic stations with columns: Code, Station Name, Azimuth, Phase ID, Time, Res. Lists numerous stations like Cedros, Caldeira, Castelo Branco, Ribeirinha, Horta, Candalaria, Pico, Rosais, Prainha do Nor, etc.

2019 JUN

Main table of seismic events with columns: SRBC, Station Name, Azimuth, Phase ID, Time, Res. Lists events like Serra Branca, Graciosa, Manadas, Ribeirinha, Angra Heroismo, Agualva, Azore, Serra do Cume, etc.

1946

Main table of seismic events with columns: TXAR, Station Name, Azimuth, Phase ID, Time, Res. Lists events like Lajitas Array, Mt. Diabolo Mer, Kurchatov, Kurchatov Arra, Karatay Array, Zalesovo Array, Makanchi, Songoing Array, etc.

BER 30 07:59:09.1 1.6, 72.50N, 3.61E, h10km, Mw3.8, Confirmed Earthquake, Norwegian Sea

Table of stations for the BER event, including Lofoten, Tromso, Steigen, Jett, SPA0, VAGH, KBS, KONS, STOK, LEIR, MORB, MORR.

IDC 30 08:14:43.9 7.3, 6.97S, 130.56E, h356km, 79km, mb2.9/11, mbtmp3.3/4, Error ellipse: s-maj=56.3km s-min=32.3km az=60.0, Banda Sea

Table of stations for the IDC event, including FITZ, WRA, MKAR, TXAR.

UCR 30 08:54:03.0 0.9, 10.27N, 84.17W, h98km, 2km, Mw3.5, CATA3 30 08:54:05.0 0.5, 10.7N, 83.84W, h78km, 6km, M2.9/11, MLU2.9/11, Error ellipse: s-maj=8.2km s-min=4.4km az=42.3, confirmed

ISC 30 08:54:04.5 1.6, 10.21N, 0.05:84.19W: 0.04, h96km, 6km, n86, #0835/112, Costa Rica

Main table of stations for the UCR event, including VPL1, SARCHI, TCS1, NARANJO, VPL2, HEME, HDC, BELE, DOMI, SANTA, PAVS, PALD, ATEO, RAMO, SRA1, SRA2, AMPA, PURI, PILE, ACOS, OROTA, RAFA, SOCE, SOCE, POCO, VTLA, CYTO, PCAYA, PCAYA, CARI, CEVA, RTVA, ABRE, VACR, COVE, VERB, PIRTS, SAN, RESJ, TRT2, TRT2, PISJ, PH, PIRTS, CEDE, LAGUNA, AREN1.



Table with columns: Code, Station Name, Az, El, P, Ph, Time, Res. Includes stations like VAREZ, CASO, ROBF, etc.

Table with columns: QLP, Quilpie, AS01, Alice Springs, AS31, Alice Springs, etc. Includes station codes and coordinates.

Table with columns: XAN, Xian, BNX, BinXian, etc. Includes station codes and coordinates.

NOU 30 08:54:08.4, 14:51S:167:12E, h12km, MLv4.8/18, Vanuatu Islands, Vanuatu Islands

Table with columns: Code, Station Name, Az, El, P, Ph, Time, Res. Includes stations like DVP, LUES, KOUNC, etc.

STKA, KAPI, HTT, Hallett, BB00, Buckleboo, etc.

Table with columns: STKA, KAPI, HTT, Hallett, BB00, Buckleboo, etc. Includes station codes and coordinates.

CASY, Casey, YAK, Yakutsk, NIKH, Nikolski High, etc.

Table with columns: CASY, Casey, YAK, Yakutsk, NIKH, Nikolski High, etc. Includes station codes and coordinates.

IDC 30 08:56:25.6, 2.0, 5.61S: 147:26E, h191km, 18km, M4.0/19, mbmp4.5, 20, MS3.3/8, Error ellipse: s-maj=17.7km

NEIC 30 08:56:26.3, 1.2, 5.56S: 0:07, 147:22E: 0:08, h188km, 7km, mb4.6/203, Error ellipse: s-maj=11.6km s-min=10.5km

GCMT 30 08:56:27.3, 0.4, 5.64S: 0:03, 147:26E: 0:03, h196km, 5km, MW4.9/77, Moment Tensor Solution, s7, c7, r7, c98

Duration: 0. Moment tensor: Scale: 1016Nm. Dip: 25; Mw: 2.3; Ms: 1.9; Ms: 1.9; Ms: 1.0; Ms: 1.0; Mw: 0.0; Mw: 1.8; Mw: 1.1; Best double couple; Mw: 2.90100e+16; NP2: 0.129, 0.00000; 0.675, 0.00000; 0.129, 0.00000. Principal axes: T 3.0630, Plg46.0000, Azm79.0000; P -2.4000, Plg20.0000, Azm191.0000; nst1 refers to body waves, cutoff=40s. nst2 refers to surface waves, cutoff=50s. Triangular moment-rate function

DJA 30 08:56:29.5, 0.7, 6.5S: 14:7E, h227km, 8km, M4.8/17, mb5.0/17, mB5.2/6, Mw(mB)4.6/16

ISC 30 08:56:26.6, 0.3, 5.53S: 0:04, 147:16E: 0:04, h195km, n574, c099/482, mb4.6/136, 1C-2D, Eastern New Guinea region

Table with columns: Code, Station Name, Az, El, P, Ph, Time, Res. Includes stations like MANU, TATA, RABL, etc.

PSA00, Pilbara Seismi, TOO, Toolang, JAGI, Jagaj, Banyuwa, etc.

Table with columns: PSA00, Pilbara Seismi, TOO, Toolang, JAGI, Jagaj, Banyuwa, etc. Includes station codes and coordinates.

NACB, Ninganchiao, NWA0, Narogin (SRO), NWA0, Narogin (SRO), etc.

Table with columns: NACB, Ninganchiao, NWA0, Narogin (SRO), NWA0, Narogin (SRO), etc. Includes station codes and coordinates.

NWA0, Narogin (SRO), NWA0, Narogin (SRO), NWA0, Narogin (SRO), etc.

Table with columns: NWA0, Narogin (SRO), NWA0, Narogin (SRO), NWA0, Narogin (SRO), etc. Includes station codes and coordinates.

MAJO, Matsushiro, MAJO, Matsushiro, MAJO, Matsushiro, etc.

Table with columns: MAJO, Matsushiro, MAJO, Matsushiro, MAJO, Matsushiro, etc. Includes station codes and coordinates.

MRZ, Mangatainaka, MRZ, Mangatainaka, MRZ, Mangatainaka, etc.

Table with columns: MRZ, Mangatainaka, MRZ, Mangatainaka, MRZ, Mangatainaka, etc. Includes station codes and coordinates.

WMQ, WMO, WMQ, WMO, WMQ, WMO, etc.

Table with columns: WMQ, WMO, WMQ, WMO, WMQ, WMO, etc. Includes station codes and coordinates.

S12K, Black Hills, SDPT, Sand Point, CHNA, Cherneraba Isl, etc.

Table with columns: S12K, Black Hills, SDPT, Sand Point, CHNA, Cherneraba Isl, etc. Includes station codes and coordinates.

M11K, Mekoryuk, GAMB, Gambell, M13K, Dal Lake, O14K, Tigykauivert M, etc.

Table with columns: M11K, Mekoryuk, GAMB, Gambell, M13K, Dal Lake, O14K, Tigykauivert M, etc. Includes station codes and coordinates.

N14K, Kuskokwak Cree, K13K, Kaitai Mount, O15K, Ungalikthiuk R, etc.

Table with columns: N14K, Kuskokwak Cree, K13K, Kaitai Mount, O15K, Ungalikthiuk R, etc. Includes station codes and coordinates.

O16K, Kokwok River B, K15K, Wolf Creek M, N16K, Nishlik Lake, etc.

Table with columns: O16K, Kokwok River B, K15K, Wolf Creek M, N16K, Nishlik Lake, etc. Includes station codes and coordinates.

30d 8h

J16K	Anvik River	79.13	21	P	P	09 08 09.7 +0.4
M17K	Holittna River	79.25	24	P	P	09 08 10.3 +0.4
F15K	North Star Dit	79.29	18	P	P	09 08 10.9 +0.8
L17K	Donlin	79.32	23	P	P	09 08 11.1 +0.8
O18K	Koktuh Hills	79.35	26	P	P	09 08 11.0 +0.5
H16K	Elim	79.39	20	P	P	09 08 10.9 +0.2
I17K	Unalakleet	79.46	21	P	P	09 08 11.5 +0.5
N18K	Kilae Creek	79.49	25	P	P	09 08 11.6 +0.3
K19K	Kodiak Island	79.50	28	P	P	09 08 11.8 +0.5
QDAD	Cape Douglas,	79.57	27	P	P	09 08 11.9 +0.2
K17K	Iditarod	79.65	22	IAMB	IAMB	09 08 14.2
K17K	Iditarod	79.65	22	P	P	09 08 12.7 +0.7
J17K	VABM Dome	79.75	22	IAMB	IAMB	09 08 15.6
J17K	VABM Dome	79.75	22	P	P	09 08 13.2 +0.5
G16K	Koyuk River	79.82	19	P	P	09 08 13.6 +0.7
M18K	Stony River	79.95	24	P	P	09 08 14.5 +0.8
Q20K	Shuyak Island	79.98	28	P	P	09 08 14.3 +0.4
L18K	Granite Mounta	80.00	23	P	P	09 08 14.5 +0.6
P19K	Oli Pt	80.11	26	P	P	09 08 15.2 +0.6
N19K	Bonanza Creek	80.15	25	P	P	09 08 15.6 +0.7
H17K	Granite Mounta	80.36	20	IAMB	IAMB	09 08 18.6
H17K	Granite Mounta	80.36	20	P	P	09 08 16.6 +0.7
G17K	Kiwalik Mounta	80.45	20	P	P	09 08 17.4 +1.1
O20K	Slope Mounta	80.59	26	P	P	09 08 17.6 +0.4
J18K	Innoko River	80.67	22	P	P	09 08 17.7 +0.1
L19K	White Mountain	80.70	24	IAMB	IAMB	09 08 20.3
L19K	White Mountain	80.70	24	P	P	09 08 18.2 +0.4
M19K	Big River Lodg	80.75	24	P	P	09 08 18.8 +0.8
C16K	Lisburne Hills	80.80	16	P	P	09 08 19.0 +0.9
HOM	Home	80.82	27	P	P	09 08 18.7 +0.3
F17K	Baldwin Pennin	80.83	19	P	P	09 08 19.3 +1.1
H18K	Hornhosa River	81.02	20	P	P	09 08 20.2 +0.8
KURBB	Kurchatov Arra	81.03	323	P	P	09 08 19.4 -0.3
E17K	Hotnam Inlet	81.05	18	P	P	09 08 20.5 +1.0
D17K	Noatak River	81.06	17	P	P	09 08 20.7 +1.2
BRLK	Bradley Lake	81.21	27	IAMB	IAMB	09 08 22.6
L20K	Farewell, AK	81.25	24	P	P	09 08 21.7 +1.1
M20K	Styx River	81.25	24	IAMB	IAMB	09 08 22.9
M20K	Styx River	81.25	24	P	P	09 08 21.2 +0.4
GCSA	Galena City Sc	81.31	21	P	P	09 08 21.0 +0.2
RDOG	Red Dog Mine	81.34	17	P	P	09 08 21.3 +0.3
G18K	Tagagakw	81.35	20	IAMB	IAMB	09 08 21.8
G18K	Tagagakw	81.35	20	P	P	09 08 21.3 +0.2
J19K	Poorman	81.36	22	P	P	09 08 21.8 +0.6
F18K	Selawik	81.44	19	P	P	09 08 22.2 +0.7
C17K	DeLong Mounta	81.53	17	P	P	09 08 22.8 +0.8
K20K	Telida	81.62	23	P	P	09 08 22.7 +0.1
E18K	Tukpahleark C	81.63	18	P	P	09 08 23.1 +0.6
H19K	Roundabout Mou	81.90	21	IAMB	IAMB	09 08 25.6
H19K	Roundabout Mou	81.90	21	P	P	09 08 24.3 +0.4
SKT	Skwentna	81.96	25	P	P	09 08 23.6 -0.8
SEW	Seward	82.01	27	IAMB	IAMB	09 08 26.1
SEW	Seward	82.01	27	P	P	09 08 24.7 +0.2
J20K	Novinta River	82.01	22	P	P	09 08 24.6 +0.1
G19K	Purcell Mounta	82.02	20	IAMB	IAMB	09 08 26.4
O21K	Purcell Mounta	82.02	20	P	P	09 08 24.9 +0.3
G12K	Cooper Landing	82.05	26	P	P	09 08 24.8 -0.1
SUA	Susitna One	82.05	25	IAMB	IAMB	09 08 31.9
SUA	Susitna One	82.05	25	P	P	09 08 24.3 -0.7
PPLA	Purkeypile	82.13	24	P	P	09 08 25.3 -0.1
F19K	Shalerucukik Mo	82.18	19	P	P	09 08 25.7 +0.4
C18K	Utukok River	82.21	17	P	P	09 08 25.7 +0.1
I20K	Naagedeneel	82.21	22	P	P	09 08 25.5 0.0
RC01	Rabbit Creek A	82.32	26	IAMB	IAMB	09 08 27.4
RC01	Rabbit Creek A	82.32	26	P	P	09 08 25.7 -0.5
CAST	Castle Rocks	82.43	23	IAMB	IAMB	09 08 28.0
CAST	Castle Rocks	82.43	23	P	P	09 08 26.2 -0.6
H20K	Anotleneega Mo	82.43	21	P	P	09 08 27.1 +0.3
M22K	Willow	82.45	25	IAMB	IAMB	09 08 28.2
M22K	Willow	82.45	25	P	P	09 08 26.8 0.0
CHUMK	Lake Minchumin	82.56	23	P	P	09 08 27.1 -0.3
CUT	Chuitina	82.69	25	P	P	09 08 28.0 -0.1
E19K	Redstone River	82.71	19	IAMB	IAMB	09 08 30.8
E19K	Redstone River	82.71	19	P	P	09 08 28.1 0.0
PMR	Palmer	82.80	26	IAMB	IAMB	09 08 29.7
PMR	Palmer	82.80	26	P	P	09 08 28.0 -0.6
PWL	Port Wells	82.83	26	P	P	09 08 28.8 -0.1
C19K	Lookout Ridge	82.95	17	P	P	09 08 29.7 +0.3
KTH	Kantishna Hill	82.95	23	IAMB	IAMB	09 08 30.3
GHO	Glory Hole Cre	82.97	25	IAMB	IAMB	09 08 30.9
F20K	Avaraat Lake	82.97	19	IAMB	IAMB	09 08 30.7
F20K	Avaraat Lake	82.97	19	P	P	09 08 29.4 -0.1
KNK	Knik Glacier	83.02	26	P	P	09 08 29.6 -0.2
D19K	Kuna River	83.03	18	P	P	09 08 29.6 -0.2

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IMAR	Indian Mountai	83.08	21	P	P	09 08 30.4 +0.3
TRF	Thorofore Moun	83.16	24	IAMB	IAMB	09 08 32.2
TRF	Thorofore Moun	83.16	24	P	P	09 08 29.3 -1.4
BPAW	Bear Paw Mtn.	83.18	23	P	P	09 08 30.2 -0.4
A19K	Wainwright	83.21	16	P	P	09 08 30.6 0.0
H21K	Melozitna Rive	83.26	21	P	P	09 08 30.6 -0.4
GLI	Glacier Island	83.39	27	IAMB	IAMB	09 08 33.2
GLI	Glacier Island	83.39	27	P	P	09 08 30.6 -1.1
E20K	Nigu River	83.48	18	P	P	09 08 31.4 -0.7
M23K	Glacier View	83.49	26	P	P	09 08 31.7 -0.6
WAT1	Susitna Watana	83.59	25	P	P	09 08 32.0 -0.8
D20K	Etiwuk River	83.61	18	P	P	09 08 32.0 -0.8
FID	Port Fidalgo	83.62	27	IAMB	IAMB	09 08 34.3
SCM	Sheep Creek Mo	83.68	26	IAMB	IAMB	09 08 35.0
SCM	Sheep Creek Mo	83.68	26	P	P	09 08 32.6 -0.7
MLY	Manley	83.71	22	IAMB	IAMB	09 08 33.7
MLY	Manley	83.71	22	P	P	09 08 32.6 -0.8
RND	Reindeer	83.72	24	IAMB	IAMB	09 08 34.2
F21K	Alatina River	83.81	20	P	P	09 08 33.2 -0.6
WAT6	Susitna Watana	83.82	25	P	P	09 08 33.3 -0.8
MCK	McKinley	83.82	24	IAMB	IAMB	09 08 34.8
MCK	McKinley	83.82	24	P	P	09 08 33.1 -0.8
EYAK	Cordova Ski Ar	83.87	27	P	P	09 08 33.6 -0.6
H22K	Ishtalitna Cre	83.89	21	P	P	09 08 33.5 -0.6
DIV	Divide	84.08	27	IAMB	IAMB	09 08 37.1
KK31	Karatay Array	84.15	314	P	P	09 08 34.4 -1.7
KKAR	Karatay Array	84.15	314	P	P	09 08 35.9 -0.2
NEA2	Nenana	84.15	23	P	P	09 08 34.3 -1.3
KLU	Klutina	84.16	26	IAMB	IAMB	09 08 37.6
KLU	Klutina	84.16	26	P	P	09 08 35.0 -0.8
B20K	Meade River	84.17	17	P	P	09 08 35.3 -0.2
DHY	Denali Highway	84.18	25	IAMB	IAMB	09 08 37.4
DHY	Denali Highway	84.18	25	P	P	09 08 35.1 -0.8
KAIM	Kayak Island	84.25	28	P	P	09 08 35.7 -0.4
E21K	Killik River	84.28	19	P	P	09 08 35.8 -0.4
I23K	Minto, Yukon-K	84.29	22	P	P	09 08 35.6 -0.5
M24K	Tolsona, Glenn	84.29	26	IAMB	IAMB	09 08 39.2
M24K	Tolsona, Glenn	84.29	26	P	P	09 08 35.9 -0.4
G22K	Bettles	84.30	20	P	P	09 08 35.9 -0.4
QSPA	South Pole Qui	84.34	180	P	P	09 08 36.4 -0.3
QSPA	South Pole Qui	84.34	180	P	P	09 08 36.3 -0.3
F22K	John River	84.39	20	P	P	09 08 36.4 -0.3
C21K	Knifolade Rid	84.40	18	P	P	09 08 36.5 -0.2
HMT	Hamilton	84.47	28	IAMB	IAMB	09 08 39.0
WRH	Wood River Hill	84.48	23	P	P	09 08 36.2 -1.0
H23K	Yukon River	84.52	22	P	P	09 08 37.5 +0.1
H23K	Yukon River	84.52	22	P	P	09 08 37.1 -0.3
BMRM	Bremner River	84.55	27	IAMB	IAMB	09 08 39.3
BMRM	Bremner River	84.55	27	P	P	09 08 37.2 -0.4
CCB	Clear Creek Bu	84.67	23	IAMB	IAMB	09 08 37.2
B21K	Ikpikuk River	84.70	17	P	P	09 08 38.3 +0.2
COLA	College	84.74	23	P	P	09 08 36.7 -1.8
COLA	College	84.74	23	IAMB	IAMB	09 08 38.1
COLA	College	84.74	23	P	P	09 08 37.4 -1.0
G23K	Bananza Creek	84.75	21	IAMB	IAMB	09 08 40.4
G23K	Bananza Creek	84.75	21	P	P	09 08 38.1 -0.4
N25K	Chitina, Valde	84.79	26	P	P	09 08 38.3 -0.6
H22K	Anaktuvuk Pass	84.82	19	P	P	09 08 38.8 -0.1
EARP	HAARP	84.84	26	P	P	09 08 39.0 -0.1
BGLC	Bering Glacier	84.85	28	P	P	09 08 38.9 -0.2
HDA	Harding Lake	84.90	23	P	P	09 08 38.8 -0.5
D22K	Ayikyak River	84.91	18	IAMB	IAMB	09 08 40.7
D22K	Ayikyak River	84.91	18	P	P	09 08 39.4 +0.2
COLD	Coldfoot	84.93	20	P	P	09 08 39.3 -0.1
PAX	Paxan	84.93	25	P	P	09 08 39.1 -0.5
NR1K	Noril'sk	84.97	342	P	P	09 08 39.0 -0.5
A21K	Barrow	85.06	16	P	P	09 08 39.9 0.0
IL31	comp=Z,6.3nm,0.7s	85.08	23	IAMB	IAMB	09 08 39.0
ILAR	Eielson Array	85.08	23	P	P	09 08 38.0 -2.1
ILAR	Eielson Array	85.08	23	P	P	09 08 38.3 -1.8
GLB	Gilahina Butte	85.08	27	IAMB	IAMB	09 08 42.0
K24K	Donnelly Dome	85.13	24	P	P	09 08 40.2 -0.3
H24K	Noodor Dome	85.14	22	P	P	09 08 40.4 -0.2
CRQC	Cirque	85.16	28	P	P	09 08 40.5 -0.3
VRDI	Verde Repeater	85.17	27	IAMB	IAMB	09 08 42.5
A22K	Sinclair Lake	85.33	16	P	P	09 08 41.0 -0.2
MCARA	McCarthy VSAT	85.41	27	P	P	09 08 41.5 -0.3
B22K	Teshkeguk Lake	85.43	17	P	P	09 08 41.7 0.0
RIDG	Independent Ri	85.49	24	P	P	09 08 42.1 -0.1
MESA	Mesa	85.50	28	P	P	09 08 41.8 -0.7
E23K	Chandalar	85.51	20	P	P	09 08 42.1 -0.3
D23K	Nanushuk River	85.58	19	IAMB	IAMB	09 08 44.2
D23K	Nanushuk River	85.58	19	P	P	09 08 42.6 0.0
J25K	Salcha River,	85.61	24	IAMB	IAMB	09 08 42.7
J25K	Salcha River,	85.61	24	P	P	09 08 42.0 -0.9
G24K	Hadweenzic Ri	85.66	21	P	P	09 08 43.0 0.0
DOT	Dot Lake	85.78	25	IAMB	IAMB	09 08 44.8

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TOLK	Toolik Lake Re	85.79	19	P	P	09 08 43.4 -0.3
L26K	Log Cabin Wild	85.85	25	P	P	09 08 43.9 -0.2
F24K	Squaw Lake	85.86	20	IAMB	IAMB	09 08 45.3
F24K	Squaw Lake	85.86	20	P	P	09 08 44.0 0.0
E24K	Your Creek	85.90	20	P	P	09 08 44.2 0.0
PRP	Porcupine Dome	85.93	24	P	P	09 08 44.6 +0.2
SCRK	Scar Creek	85.93	24	P	P	09 08 44.5 0.0
C23K	Itkillik River	86.02	18	P	P	09 08 45.0 +0.3
CTG	China Glacier	86.04	28	P	P	09 08 45.2 0.0
H25L	Birch Creek	86.09	22	P	P	09 08 45.5 +0.5
G25K	Beaman Lake	86.18	21	P	P	09 08 45.7 +0.2
M27K	Edge Creek, AK	86.26	26	IAMB	IAMB	09 08 48.5
M27K	Edge Creek, AK	86				



30d 10h

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like Mina Array Bea, ILAR, Esquipulas, Montecristo, Santa Rosa de, etc.

CATAC 30 09:53:41.9-0.6, 13°N, 3°9'0W, h26km, 3km, M3.4/23, MLv3.4/23, Error ellipse: s-maj=7.9km s-min=4.6km az=30.1, confirmed

SNET 30 09:53:43.0-0.8, 13°12'N-89°49'W, h46km, 8km, ML3.4 GCG 30 09:53:43.5-0.6, 13°14'N-89°58'W, h40km, 10km, MD3.8, ML3.0

ISC 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like Alcalda de L, JAYA, LOMA, etc.

LOMA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LOMA, PMAO, SEMO, etc.

CEDE 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like COEG, TECO, PAVA, etc.

TECO 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like NUBE, PAVA, etc.

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like NUBE, PAVA, etc.

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

PAVA 30 09:53:42.4-2.1, 13°05'N-0°07'89.53W, h34km, 5km, n73, c032/80, 3C-3D, El Salvador

2019 JUN

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like IPOC Station P, Maricunga, etc.

DJA 30 10:09:27.9-0.8, 2°S, 7°14'0E, h10km, M4.1/6, MLv4.1/6 IDC 30 10:09:27.0-1.6, 1°80S, 139°68E, h0km, mb3.5/3, mbmt=14.5km az=29.0

ISC 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like GENI, SMP1, etc.

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

WAMI 30 10:09:27.2-1.3, 1°58S, 0°10:139.79E, 0.06, h10km, n12, c176/13, mb3.5/3, Near north coast of Iran Jaja

1950

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like LYMT, BEMT, OVMT, etc.

IDC 30 10:46:06.4-0.7, 31°18S, 177°20W, h0km, mb4.0/9, mbmp4.0/11, ML4.1/2, MS3.5/1, Error ellipse: s-maj=23.8km s-min=17.7km az=91.0

NEIC 30 10:46:08.4-1.7, 31°1S, 0°1:177.01E, h10km, 1km, mb4.3/14, Error ellipse: s-maj=20.7km s-min=9.2km az=29.0

NOU 30 10:46:58.2, 34°25'S, 179°58W, h113km, mb3.9/5, South of Kermadec Islands

ISC 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

Table with columns: Code, Station Name, Az, Az2, Phase ID, Time, Res. Includes stations like GLKZ, RAO, etc.

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

RAO 30 10:46:11.9-0.5, 31°26S, 0°05:177.4W, 0.1, h35km, n66, c1960/86, mb4.2/17, 4C, Kermadec Islands region

BUT 30 10:32:56.1, 1.2, 46°87'N, 0°02:112°53'W, 0.03, h14km, 5km, Error ellipse: s-maj=3.7km s-min=0.4km az=48.0

WRB 30 10:54:20.8, 0.3, Warrungunga Arr, 44.53 273 P Iamb Iamb 10 54 20.8 +0.3 10 54 23.6

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like WRA Warramunga Arr, SBA Scott Base, FITZ Fitzroy Crossi, QSPA South Pole Qui, etc.

KRSC 30 10:46:40.6:1.3,56:20N:164.32E, h0km,22km, ML3.9
IDC 30 10:46:41.1:1.1,56:06N:164.36E, h0km, mb3.77,
mbtmp 3.7/8, ML2.4/1, MS2.7/2, Error ellipse: s-maj=43.2km

IDC 30 10:46:42.6:0.7,56:17.0N:0.04:164.26E:0.04, h16km, n51,
e150/53, mb3.9/7, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like KBTR Krutoberegovo, SMKR Semkarok, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like GSPA South Pole Qui, CATAC 30 10:53:33.6:0.3, 10'N:2.8'S:5'W, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like NNC 30 11:05:12.3:10.0, 37'33N:70.37E, etc.

MEX 30 11:27:16.5:0.9, 13'95N:93'22W, h9km, 117km, MD4.0
GCG 30 11:27:18.0:1.5, 14'01N:93'07W, h36km, 999km, MD4.1,
ML3.4

IDC 30 11:27:12.5:3.0, 13'36N:0.10:39.32'W:0.06, h15km, 17km,
n15, e149/27, Off coast of Chiapas

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like THIG z=1.06.0, SMCA Catarina, etc.

DJA 30 11:35:14.4:0.7, 4'S:5'13'7E, h156km, 8km, ML3.7/6,
MLV3.7/6
IDC 30 11:35:15.9:5.0, 3'73S:136'69E, h139km, 68km, mb3.0/1,
mbtmp 3.5/5, Error ellipse: s-maj=70.8km s-min=24.4km

IDC 30 11:35:13.9:0.9, 3'87S:0.06:136'67E:0.06, h150km, n11,
c345/16, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SRPI Serui, Papua, BAKI Biak, etc.

IDC 30 11:49:58.9:0.8, 2'68S:138'50E, h0km, mb4.0/7,
mbtmp 3.9/10, ML3.3/3, MS3.6/8, Error ellipse:
s-maj=16.9km s-min=14.4km az=127.0

DJA 30 11:50:01.8:0.3, 3'S:5'13'9E, h10km, M4.3/8, mb4.5/1,
MLV4.2/8

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SMI Sarmi, GENU Genyem, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like ASAR Alice Springs, TATA Tatama Isabel, etc.

IDC 30 11:52:44.2:3.6, 35'30N:80'88E, h0km, mb3.6/3,
mbtmp 3.4/5, ML3.0/2, MS3.1/2, Error ellipse:
s-maj=124.4km s-min=23.2km az=75.0

IDC 30 11:52:46.7:2.9, 35'33N:0.1:80'3E:0.6, h35km, n7, e174/6,
mb3.6/3, Kashmir-Kizang border region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AAK Ala-Archa, MKAR Makanchi Array, etc.

IDC 30 11:53:48.0:1.3, 2'57S:138'43E, h0km, mb3.5/4,
mbtmp 3.6/6, ML3.5/2, Error ellipse: s-maj=27.4km
s-min=18.4km az=170.0

IDC 30 11:53:52.7:1.1, 2'65S:0.2:138'4E:0.2, h32km, n6, e112/6,
mb3.6/4, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JAY Jayapura, WRA Warramunga Arr, etc.

IDC 30 11:55:50.7:1.4, 2'56S:138'40E, h0km, mb3.4/3,
mbtmp 3.5/5, ML3.3/2, MS3.7/1, Error ellipse:
s-maj=28.8km s-min=18.4km az=174.0, Irian Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like JAY Jayapura, WRA Warramunga Arr, etc.

NOU 30 12:11:04.5:22'10S:170'04E, h0km, MLV3.7/12,
Southeast of Loyalty Islands, Southeast of Loyalty Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like MARNC Mare, Loyalty, etc.

JMA 30 12:13:22.4:0.2, 25'N:1:122'4E:0.4, h98km, 1km,
MVI: 8/9, NW OFF ISHIGAKUJIMA IS

TAP 30 12:13:22.1:4, 24'69N:122'39E, h98km, ML2.7, C
IDC 30 12:13:22.3:1.4, 24'69N:0.03:122'41E:0.03, h98km, 7km,
n101, e098/193, Taiwan region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like EOSE EOSE, EOSZ EOSZ, etc.

30d 12h

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like ESOA Su ao, YONGUNIJIMAKU, ESO4, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like CHNS Tsauling, CHNS Lidau, EDLDTW, etc.

IDC 30 12:20:24.0, 1.6, 2.77S; 138.56E, h0km, mb3.3/2, mbtmp3.5/4, ML3.6/2, MS2.1/1, Error ellipse: s-maj=32.1km s-min=17.4km az=165.0

DJA 30 12:20:28.0, 0.8, 3.3'S; 14.3'3'9E, h11km, 8km, M3.7/6, MLV3.7/6

ISC 30 12:20:25.5, 1.0, 2.83S; 0.07x138.68E; 0.07, h10km, n8, SCp 29.2/9, Irilan Jaya

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like SMPI Sarmi, SMPI SMPi, GENI Genyem, etc.

IDC 30 12:26:52.9, 1.6, 2.3'S; 66S; 178.82E, h543km, 17km, mb3.3/11, mbtmp4.2/12, Error ellipse: s-maj=18.3km s-min=15.0km az=126.0

NOU 30 12:26:53.8, 23.62S; 179.11E, h578km, mb4.1/19, South of Fiji Islands

NEIC 30 12:26:54.5, 1.3, 2.3'S; 0.1x178.8E; 0.1, h558km, 8km, mb4.2/21, Error ellipse: s-maj=18.7km s-min=14.9km az=121.0

ISC 30 12:26:52.9, 0.5, 2.3'S; 84S; 0.06x178.97E; 0.08, h548km, n93, h164/97, mb4.2/26, South of Fiji Islands

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like LKBA Tubou, MSFV Nonsavu, MSFV Nonsavu, etc.

URZ 17nm, 0.75, baz=13, slow=14, SNR=12

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like URZ 0.8, URZ Urewera, URZ Urewera, etc.

TATA Tatamala Isabel 29.307 P P 12 31 22.2 -2.3

ARMA Armadale 25.16 249 P P 12 31 37.7 -2.3

ARMA comp=2.17nm, 1.4s Iamb Iamb 12 31 54.7

CAN Canberra 28.36 239 P P 12 32 04.0 +0.6

CAN Canberra 30.53 271 P P 12 32 21.1 -0.2

CTAO Charters Tower 30.53 271 P P 12 32 22.6 +0.3

CLP Quilpie 31.49 258 P P 12 32 31.2 +0.8

STKA Stephens Creek 33.87 248 P P 12 32 50.6 +0.1

STKA Stephens Creek 33.87 248 P P 12 32 49.8 -0.7

ASAR comp=2.4nm, 0.5s, baz=93, slow=7.9, SNR=9.0 ScP ScP 12 38 34.9 +0.9

WBO Warramunga Arr 41.46 267 P P 12 33 51.7 -0.8

WBO comp=2.10nm, 0.8s Iamb Iamb 12 33 52.7

WRA Warramunga Arr 41.47 266 P P 12 33 51.5 -1.0

WRA Warramunga Arr 41.47 266 P P 12 33 51.6 -1.0

WRA comp=2.9nm, 0.7s, baz=90, slow=5.8, SNR=69 ScP ScP 12 38 37.5 +2.0

FORT Forrest 45.45 250 P P 12 34 22.3 -1.1

FORT comp=2.6nm, 0.7s Iamb Iamb 12 34 38.1

1952

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like STCH Steam Cocks, FITZ Fitzroy Crossi, VANDA Vanda, etc.

WEL 30 12:28:00.5, 1.1, 4.0'S; 164.176E, h31km, 8km, M0.9/6, ML1.4/4, MLV0.9/6, Error ellipse: s-maj=5.2km s-min=4.8km az=44.6, confirmed, North Island

KRSC 30 12:44:22.7, 0.7, 5.4'S; 95N; 164.70E, h0km, mb3.7/13, mbtmp3.8/15, ML3.5/2, MS2.8/8, Error ellipse: s-maj=27.6km s-min=13.3km az=158.0

NEIC 30 12:44:23.9, 1.1, 5.4'S; 95N; 164.70E, h51km, 24km, M4.5, mb4.1/21, Error ellipse: s-maj=21.3km s-min=12.3km az=171.0

MOS 30 12:44:25.6, 0.7, 5.4'S; 94N; 164.79E, h38km, mb4.5/7, Error ellipse: s-maj=5.3km s-min=4.4km az=48.7

ISC 30 12:44:24.8, 1.1, 5.4'S; 97N; 164.88E; 0.05, h15km, 10km, n152, 192/154, mb3.9/24, MS3.0/3, IC, Komandorsky Islands region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Lists stations like BKI Bering, BKR Bering, KBTR Krutoberegovo, etc.

BKI Bering 0.78 72 P P 12 44 39.4 -0.5

BKI Bering 0.78 72 P P 12 44 50.1 -0.7

BKI Bering 0.78 72 P P 12 44 50.5 -0.5

KBTR Krutoberegovo 1.63 320 P P 12 44 51.6 -1.2

KBTR Krutoberegovo 1.63 320 P P 12 44 51.0 -2.5

KBTR Krutoberegovo 1.63 320 P P 12 44 51.8 -1.2

KBTR Krutoberegovo 1.63 320 P P 12 44 52.8 -1.1

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.9 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9

KBG Krutoberegovo 1.71 320 P P 12 45 13.5 -1.9



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like KPT Kopyto, KOZ Kozzyrevsk, KIL Karymskiy, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like H11S1 WAKE ISLAND Hy 36.43 177, H11S2 WAKE ISLAND Hy 36.44 177, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like ISK 30 13:17:33.6, 34:86N-33:83E, h52km, ML3.0/18, etc.



Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like XiuLin Townshi, Chiawan, Guanxi Townshi, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like Pinedale Array, South Pole Qui, Dimboko, etc.

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like IPOC Station P, IPOC Station P, IPOC Station P, etc.

IDC 30 13:46:31.0-0.8, 27.77N-127.07E, h189km, 8km, mb3.2/9, mbmp3.7/11, MS3.2/1, Error ellipse: s-maj=26.1km s-min=10.6km az=72.0

JMA 30 13:46:34.1-0.2, 27.9N-127.0E, h165km, MV3.9/31, NW OF OKINAWAJIMA IS

ISC 30 13:46:31.0-0.7, 27.73N-126.97E, h192km, 6km, n52, s153/70, mb3.4/9, Northwest of Ryukyu Islands

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like Iheya, Aguni-jima, Kume jima 2, Kunigami, etc.

NOU 30 13:59:00.0, 33.72S-175.23W, h0km, MLv5.4/10, South of Kermadec Islands

IDC 30 13:59:33.9-1.6, 34.49S-178.50W, h0km, mb4.2/4, mbmp4.3/6, ML3.9/2, Error ellipse: s-maj=39.9km s-min=31.0km az=106.0

NEIC 30 13:59:35.0-0.3, 34.43S-178.3W, h10km, 1km, mb4.2/9, Error ellipse: s-maj=33.5km s-min=7.8km az=90.0

WEL 30 13:59:38.3-1.2, 35.5S-177.9W, h12km, M4.3/10, ML4.6/11, MLv4.3/10, Error ellipse: s-maj=20.1km s-min=9.0km az=134.9, confirmed

ISC 30 13:59:34.0-0.9, 34.86S-178.2W, h21.0km, n41, s1943/54, mb4.3/7, South of Kermadec Islands

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like Matakaoa Point, Pakihiroa, Puketiti, etc.

NOU 30 14:02:10.2, 37.85S-176.27E, h199km, MLv3.4/12, North Island, New Zealand

WEL 30 14:02:11.5-0.7, 38.54S-177.6E, h188km, 6km, M3.5/96, MLv3.5/96, Error ellipse: s-maj=5.5km s-min=4.6km az=40.7, confirmed

ISC 30 14:02:05.8-1.9, 37.30S-176.26E, h192km, n168, s198/177, North Island

Table with columns: Code, Station Name, Az, El, Op, Phase ID, Time, Res, h, m, s, ISC. Includes stations like Tauranga, Kauhara, Ohinepanea, etc.

30Dz 14h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Durham Road, Wanganui, Lake Rotokare, etc.

OSPL 30 14:09:05.4+2.4, 19.63N, 70.61W, h0km, 15km, ML2.5
SDD 30 14:09:05.1-1.0, 19.58N, 70.63W, h0km, 0.03h, h1km, 2km, n16, c089/29, 4C-6D, Dominican Republic region

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like SODR, SC01, LUDR, MADR, etc.

DJA 30 14:14:26.7+0.4, 3.5S, 13.9E, h10km, M3.4/7, MLV3.4/7
IDC 30 14:14:29.1+1.6, 3.40S, 139.14E, h0km, mb4.2, mbtm3.4/3, ML3.2/1, Error ellipse: s-maj=38.5km, s-min=15.7km, az=143.0

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like GRTK, SARMI, GENYEM, etc.

2019 JUN

MKAR Makanchi Array 69.68 322 P P 14 25 46.2 +11
0.6mm, 1.0s, baz=132, slow=6.4, SNR=5.26
0.6mm, 1.0s

MOS 30 14:21:36.6+1.0, 51.52N, 176.78W, h48km, mb4.7/16, Error ellipse: s-maj=11.7km, s-min=9.0km, az=92.7
AEIC 30 14:21:37.9+2.0, 51.33N, 176.75W, h0.05, h50km, 5km, Error ellipse: s-maj=9.6km, s-min=4.5km, az=169.0
IDC 30 14:21:38.2+1.9, 51.60N, 176.83W, h47km, mb4.1/29, mbtm4.3/32, ML3.8/3, MS3.3/20, Error ellipse: s-maj=11.9km, s-min=9.0km, az=163.0
NEIC 30 14:21:39.7+2.1, 51.43N, 176.82W, h0.06, h62km, 5km, mb4.7/380, ML4.9/10, ML4.4(AEIC), Error ellipse: s-maj=10.9km, s-min=5.0km, az=172.0

Main table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like Kanaga Island, Adak, KIWV, etc.

1956

Table with columns: Code, Station Name, Time, Res. Includes stations like L16K, ACHA, N17K, etc.



30d 14h

Table with columns for call sign, name, frequency, mode, and other technical details. Includes stations like KSRS Korea Array, PAHR Pain Relief, WAKR Walker, etc.

2019 JUN

Table with columns for call sign, name, frequency, mode, and other technical details. Includes stations like SPITS Spitsbergen Ar, SDCO Great Sand Dune, TUC Tucson, etc.

1958

Table with columns for call sign, name, frequency, mode, and other technical details. Includes stations like V48A Smith Brothers, CLTN Cedars of Lebanon, U49A Red Bull, etc.



Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like BOSQ, SNAK, IDC, GCMT, NEIC, ISC, DQM, ALNE, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like AB31, ABKAR, KKRAR, BELG, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res. Includes stations like SOMN, SOMM, SOMN, etc.

30d 15h

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like WHF Hehuan Shan, WLF Emei, LIOB Shoufeng, etc.

2019 JUN

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like FUSS Fushou, FUSS Xiuilin Townshi, LKXIB Hehuan Shan, etc.

1960

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like AKDM Akdamar-Van, GEVA Gevas, PERV Siirt/Pervari, etc.

IDC 30 14:32:16.3:1.6, 3.82N-93.49E, h0km, mb3.5/5, mbtmp3.5/5, Error ellipse: s-maj=85.5km s-min=24.7km

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like MKAR Makanchi Array, WRA Warramunga Arr, ASAR Alice Springs, etc.

TAP 30 14:54:22.9, 24.93N, 122.48E, h27km, ML3.0, D JMA 30 14:54:23.8, 0.1, 24.9N, 0.8-122.5E, 0.5, h26km, 3km, MV2.5/8, NW OFF ISHIGAKIJIMA IS

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TWB1 Santiao Chiao, TWB1 TWB1, EGS EGS, etc.

UCR 30 14:56:00.5:1.2, 9.03N-83.70W, h14km, 5km, MW3.6

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like OCHAL Ojochal, EDPE Pejibaye, PANP Palmar Norte, etc.

HEL 30 15:21:57.1:0.3, 67.57N-34.29E, h0km, ML1.8, Suspected explosion

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like KOVA Elazig, Kovanc, VAYK Vayk, VAYK Vayk, etc.

ISC 30 14:54:23.0:1.0, 24.92N-122.49E, h0km, 3km, n54, r111/62, Costa Rica

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like TWB1 Santiao Chiao, TWB1 TWB1, EGS EGS, etc.

ISC 30 15:21:57.4:0.9, 67.64N-34.19E, h0km, n30, r125/48, Baltic States-Belarus-Northwestern Russia

Table with columns: Code, Station Name, Az, Phase ID, Time, Res. Includes stations like APV Apatyty, LVA Lovozero, LVZ Lovozero, etc.



30d 17h

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like ZUZH, NTST, YM08, ANP, HSN, etc.

2019 JUN

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like PTMZ, JISG, KMBP, JIRB, etc.

1962

Table with columns: Code, Station Name, Azimuth, Phase, ID, Time, Res. Includes stations like PB09, AF01, PB06, etc.







Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like PSMA Santa Maria, ESDC Sonseca Array, MDT Mideti, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like AMTX Amarillo, AMTX Palo Pinto, WFTS Witchita Falls, etc.

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like RCC Rio Carpintero, LESP3 La Esperanza, LPPC Paso Canoas, etc.

NEIC 30 21:03:45.0-0.9, 32.90N-0.01x100.89W:0.02, h4km, 2km, ML2.6/10.1, ML 7.7, Error ellipse: s-maj=2.1km s-min=1.5km az=114.0

NEIC 30 21:03:46.1-1.7, 32.89N-0.01x100.89W:0.01, h6km, 2km, Error ellipse: s-maj=2.0km s-min=1.6km az=151.0

TXNET 30 21:03:46.1, 32.90N-0.75-100.9W:0.0, h6km, ML2.4/12, 6C-3D, Error ellipse: s-maj=0.9km s-min=0.8km az=111.1, final, Western Texas

UCR 30 21:17:39.9-1.3, 8.33N-82.82W, h25km, 2km, MW3.5 UPA 30 21:17:40.1-0.9, 8.38N-82.81W, h26km, 3km, MW3.8 ISC 30 21:17:39.3-0.9, 8.34N-82.79W:0.03, h32km, 6km, n62, e1514/97, 13C-5D, Panama-Costa Rica border region

GII 30 21:31:44.3-0.0, 33.566N-0.002-36.242E:0.001, h0km, confirmed GRAL 30 21:31:46.4-0.4, 33.38N-36.22E, h0km, 68km, MD3.1 ISC 30 21:31:46.0-1.3, 33.42N-36.23E:0.06, h0km, n28, e059/30, Jordan-Syria region



1967

Table of astronomical observations for 1967, listing station names, coordinates, and observation times.

2019 JUN

Table of astronomical observations for 2019 JUN, listing station names, coordinates, and observation times.

30d 23h

Table of astronomical observations for 30d 23h, listing station names, coordinates, and observation times.





30d 23h

2019 JUN

1970

Azm12.6471°; N 0.1175; Plg17.3941°; Azm138.6773°; P -1.8659, Plg21.2701°; Azm235.6819°; confirmed
NEIC 30 23:34:53.5.1.8.14:36N.0.05:92.95W.0.04.h10km,1km,
m.4.8/573,Mw4.8/12,Md4.9/12(MEX) Error ellipse:
s-maj=8.3km s-min=6.1km az=166.0, Moment Tensor
Solution. Moment tensor: Scale 10^16Nm; Mr=1.75;
Mw=1.49; Ms=0.26; M=0.28; Mw=0.78; Mr=0.12; Fault
plane solution: M=1.83000°;10^16 NP1.36.56.24000°,
d42.43000°, -1.01.62000°. NP2.36.251.80000°,
d48.64000°, -1.79.57000°. Principal axes: T 1.8760,
Plg3.0000°, Azm334.0000°, N -0.0864, Plg6.0000°,
Azm65.0000°, P -1.7396, Plg82.0000°, Azm223.0000°;

NEIC 30 23:34:53.5.1.4.14:24N.93.01W,h35km,999km,MD4.7,
ML5.0
MEX 30 23:34:55.0.0.8.14:27N.93.09W,h11km,15km,MD4.9
GCMT 30 23:34:56.0.0.3.14:43N.0.01:93.06W.0.02,h23km,
MW5.0/92, Moment Tensor Solution. s62.c90; s92.c131;
Duration: 0 Moment tensor: Scale 10^16Nm; Mr=3.03±.14;
Mw=2.93±.09; Ms=0.15±.09; M=0.17±.11; Mw=0.75;
Mr=1.34±.14; Best double couple: M3.64100x10^16
NP1.36.271.00000°, d32.00000°, A66.00000°. NP2:
q3.119.00000°, b61.00000°, A105.00000°. Principal axes:
T 3.7320, Plg70.0000°, Azm61.0000°, N -0.110000,
Plg13.0000°, Azm292.0000°, P -3.5500, Plg15.0000°,
Azm198.0000°. nsta1 refers to body waves, cutoff=40s.
nsta2 refers to surface waves, cutoff=50s. Triangular
moment-rate function

ISC 30 23:34:54.4.1.6.14:31N.0.04:92.97W.0.04,h2km±11km,
n1010,r176/951,m4.8/264,MS4.2/41,2C-4D,Near
coast of Chiapas

Table with columns: Code, Station Name, Az, Az2, Phase ID, Op, Time, Res. Lists various seismic stations and their associated data points.

Table with columns: OXIG, Oaxaca, 4.54 308, Pn, Sn, Ss. Lists seismic stations in Oaxaca and their associated data points.

Table with columns: JTS, JTS, 8.79 116, P, Pn, Sn. Lists seismic stations in JTS and their associated data points.

Table with columns: Sn, Sn, 23 38 35.4, +2.6. Lists seismic stations and their associated data points.



1971

Table with columns for station call letters, frequency, power, and signal strength. Includes stations like CCAR Cane Creek, PECS Pecos, BBAC Balboa, ODSA Odessa, etc.

2019 JUN

Table with columns for station call letters, frequency, power, and signal strength. Includes stations like SDV Santo Domingo, SDV Pecos, SDV Santo Domingo, etc.

30d 23h

Table with columns for station call letters, frequency, power, and signal strength. Includes stations like R58B Mineral, GLA Glamis, PV01 Paradox Valley, etc.



1973

G27K	Doyon Strip	61.38 340	P	P	23 45 07.9 +0.4
J25K	Salcha River	61.53 337	I Amb	I Amb	23 45 19.3
J25K	Salcha River	61.53 337	P	P	23 45 08.9 +0.3
WAT6	Susitna Watana	61.53 335	P	P	23 45 09.2 +0.4
DHY1	Denali Highway	61.60 335	P	P	23 45 09.4 +0.2
RIB01	Linhares ES	61.60 122	eP	P	23 45 09.4 -0.4
PMR	Palmer	61.71 333	P	P	23 45 10.4 +0.6
E28M	Babbage River	61.77 342	P	P	23 45 10.0 -0.1
RC01	Rabbit Creek A	61.78 333	P	P	23 45 10.5 +0.2
CAM01	Campos-RJ	61.82 125	eP	P	23 45 11.6 +0.5
KD4K	Kodiak Island	61.96 328	LR	LR	00 11 32.9
KD4K	Kodiak Island	61.96 328	P	P	23 45 12.2 +0.7
WAT1	Susitna Watana	61.98 335	P	P	23 45 12.2 +0.5
D28M	Stokes Point	61.98 343	P	P	23 45 12.5 +1.0
PRP	Porcuene Dome	62.03 338	P	P	23 45 12.6 +0.5
HDA	Harding Lake	62.04 337	P	P	23 45 12.3 +0.3
HOM	Home	62.13 331	P	P	23 45 13.5 +0.9
Q20K	Shuyak Island	62.13 329	P	P	23 45 13.5 +0.8
E27K	Coleen River	62.14 342	P	P	23 45 13.6 +0.9
OHAK	Old Harbor	62.14 328	P	P	23 45 13.8 +1.0
G26K	Porcupine Rive	62.16 340	I Amb	I Amb	23 45 14.2
G26K	Porcupine Rive	62.16 340	P	P	23 45 13.6 +0.8
ILAR	Eielson Array	62.18 337	P	P	23 45 12.8 -0.2
ILAR	Eielson Array	62.18 337	P	P	23 45 12.9 0.0
ILAR	comp-Z,7.4nm,0.9s,baz=113,slow=4.6,SNR=62	00 14 22.4			
M22K	Willow	62.21 333	P	P	23 45 13.3 +0.2
M22K	Willow	62.21 333	P	P	23 45 13.9 +0.8
CAPN	Captain Cook N	62.30 332	P	P	23 45 14.4 +0.7
SUA	Susitna One	62.37 333	P	P	23 45 15.0 +0.6
SII	Sitkinak Island	62.42 327	P	P	23 45 15.3 +0.6
FYU	Fort Yukon	62.45 339	P	P	23 45 15.3 +0.6
CCB	Clear Creek Bu	62.48 337	I Amb	I Amb	23 45 16.1
WRH	Wood River Hill	62.51 336	I Amb	I Amb	23 45 15.8
H25L	Birch	62.51 339	P	P	23 45 15.7 +0.6
MCK	McKinley	62.52 335	P	P	23 45 16.1 +0.8
MCK	McKinley	62.52 335	P	P	23 45 15.9 +0.6
CUT	Chulitna	62.53 334	P	P	23 45 15.4 +0.2
CUT	Chulitna	62.53 334	P	P	23 45 15.9 +0.7
POKR	Poker Plat Res	62.55 337	P	P	23 45 15.8 +0.4
POKR	Poker Plat Res	62.55 337	I Amb	I Amb	23 45 16.8
POKR	Poker Plat Res	62.55 337	P	P	23 45 15.7 +0.4
D27M	Malcolm River	62.56 343	P	P	23 45 15.9 +0.4
F26K	Sheenjek River	62.67 340	I Amb	I Amb	23 45 17.6
F26K	Sheenjek River	62.67 340	P	P	23 45 17.1 +0.9
BMAR	Burnt Mountain	62.68 340	P	P	23 45 16.7 +0.4
R18K	Karluk	62.85 328	P	P	23 45 17.4 0.0
G25K	Bearman Lake	62.85 339	P	P	23 45 17.9 +0.5
STLK	Strandline Lak	62.85 333	I Amb	I Amb	23 45 19.2
SKT	Skwentna	62.91 333	P	P	23 45 18.1 +0.2
N20K	Mount Spurr	62.93 332	P	P	23 45 17.7 -0.4
SPCR	Spurr Chakacha	62.93 332	P	P	23 45 17.7 -0.4
NEA2	Nenana	62.94 336	I Amb	I Amb	23 45 19.3
NEA2	Nenana	62.94 336	P	P	23 45 18.1 +0.1
ILSW	Ilamna South=5.5	62.95 331	P	P	23 45 20.3 +2.0
TRF	Thorfare Moun	62.95 335	P	P	23 45 18.2 -0.1
H24K	Noodor Dome	63.05 338	P	P	23 45 18.8 +0.1
F25K	Christian River	63.11 340	P	P	23 45 19.4 +0.3
I23K	Minto, Yukon-K	63.29 337	P	P	23 45 20.4 +0.1
G24K	Hadweenzic Riv	63.30 339	I Amb	I Amb	23 45 21.7
G24K	Hadweenzic Riv	63.30 339	P	P	23 45 20.9 +0.6
E25K	Arctic Village	63.35 341	P	P	23 45 21.7 +1.0
Q18K	Katmai Hardscr	63.45 329	P	P	23 45 21.5 -0.1
BP4W	Bear Paw Mtn.	63.50 335	P	P	23 45 21.9 +0.2
PPLA	Purkeypile	63.54 334	I Amb	I Amb	23 45 22.7
PPLA	Purkeypile	63.54 334	P	P	23 45 22.6 +0.5
O19K	Port Alsworth	63.58 331	P	P	23 45 22.9 +0.7
C27K	Jago River	63.58 342	P	P	23 45 23.0 +0.8
M20K	Styx River	63.59 333	I Amb	I Amb	23 45 23.8
M20K	Styx River	63.59 333	P	P	23 45 22.6 +0.2
H23K	Yukon River	63.65 337	I Amb	I Amb	23 45 24.4
H23K	Yukon River	63.65 337	P	P	23 45 23.0 +0.3
CAST	Castle Rocks	63.69 334	P	P	23 45 22.8 -0.2
P18K	Big Mount	63.77 330	P	P	23 45 25.2 +1.5
P18K	Big Mountain,	63.77 330	P	P	23 45 24.3 +0.7
MLY	Manley	63.77 336	P	P	23 45 23.9 +0.3
MLY	Manley	63.77 336	P	P	23 45 23.6 0.0
Q17K	Contact Creek	63.78 328	P	P	23 45 24.1 +0.4
F24K	Squaw Lake	63.83 339	P	P	23 45 24.3 +0.4
N19K	Bonanza Creek	63.85 331	P	P	23 45 24.1 -0.1
N19K	Bonanza Creek	63.85 331	P	P	23 45 24.7 +0.5
R17L	Mt. Peulik Vol	63.85 328	P	P	23 45 24.5 +0.3
O18K	Koktuh Hills	63.90 330	P	P	23 45 25.6 +1.2
C26K	Camden Bay	64.09 342	P	P	23 45 26.4 +1.0
L20K	Farewell, AK	64.12 333	P	P	23 45 25.9 0.0
M19K	Big River Lodg	64.16 332	I Amb	I Amb	23 45 27.5
M19K	Big River Lodg	64.16 332	P	P	23 45 26.7 +0.6
PPT	Papeete	64.20 242	LR	LR	00 06 20.3
PPT2	Papeete2	64.21 242	eS	S	23 53 59.6 -3.6
PPT2	Papeete2	64.21 242	eS	SS	23 58 18.6 +5.4
PPT2	comp-Z,53nm,27.2s		eLR	LR	00 04 30.4

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PPT2	comp-Z,178nm,25.5s		eLR	LR	00 04 40.1
G23K	Bananza Creek	64.21 338	I Amb	I Amb	23 45 27.6
G23K	Bananza Creek	64.21 338	P	P	23 45 27.0 +0.6
D25K	Kavik River	64.22 342	P	P	23 45 27.4 +1.0
Q16K	King Salmon	64.28 329	P	P	23 45 28.0 +1.1
E24K	Your Creek	64.29 340	I Amb	I Amb	23 45 43.0
E24K	Your Creek	64.29 340	P	P	23 45 27.5 +0.6
P17K	Kvichak River	64.31 329	P	P	23 45 26.9 -0.1
H22K	Ishatlina Cre	64.37 337	P	P	23 45 27.8 +0.3
L19K	White Mountain	64.45 333	I Amb	I Amb	23 45 30.6
L19K	White Mountain	64.45 333	P	P	23 45 28.3 +0.3
N18K	Kilae Creek	64.47 331	P	P	23 45 28.5 +0.4
COLD	Coldfoot	64.50 339	P	P	23 45 29.3 +1.0
COLD	Coldfoot	64.50 339	I Amb	I Amb	23 45 30.6
COLD	comp-Z,16nm,1.2s				
COLD	Coldfoot	64.50 339	P	P	23 45 29.1 +0.9
K20K	Telida	64.50 334	P	P	23 45 28.4 +0.1
CHGN	Chignik	64.63 326	P	P	23 45 29.8 +0.6
CHGN	Chignik	64.63 326	P	P	23 45 29.9 +0.7
E23K	Chandalar	64.66 340	P	P	23 45 30.1 +0.7
M18K	Stony River	64.67 332	P	P	23 45 29.4 0.0
O17K	Koliganek Bris	64.79 330	P	P	23 45 30.4 +0.2
J20K	Nowinta River	64.81 335	I Amb	I Amb	23 45 31.2
J20K	Nowinta River	64.81 335	P	P	23 45 30.6 +0.2
H21K	Melona River	64.82 337	I Amb	I Amb	23 45 31.1
H21K	Melozitna Rv	64.82 337	P	P	23 45 30.5 +0.1
G22K	Bettle	64.83 338	P	P	23 45 31.0 +0.6
D24K	Happy Valley	64.90 341	P	P	23 45 32.1 +1.3
D24K	Happy Valley	64.90 341	P	P	23 45 31.4 +0.6
TOLK	Toolik Lake Re	64.91 340	I Amb	I Amb	23 45 32.2
TOLK	Toolik Lake Re	64.91 340	P	P	23 45 31.8 +0.8
CHNA	Chernabura Isl	64.98 324	P	P	23 45 31.9 +0.4
N17K	Nushagak Hills	65.04 331	I Amb	I Amb	23 45 37.7
N17K	Nushagak Hills	65.04 331	P	P	23 45 32.1 +0.3
P16K	Nushagak River	65.04 329	P	P	23 45 32.3 +0.4
C24K	Franklin Bluff	65.13 341	P	P	23 45 33.2 +0.9
I20K	Naaghedeneel	65.16 336	P	P	23 45 32.8 +0.2
O16K	Kokwok River B	65.23 329	I Amb	I Amb	23 45 52.0
O16K	Kokwok River B	65.23 329	P	P	23 45 33.4 +0.3
L18K	Granite Mounta	65.28 332	I Amb	I Amb	23 45 38.9
L18K	Granite Mounta	65.28 332	P	P	23 45 33.5 0.0
IMAR	Indian Mountai	65.30 337	P	P	23 45 33.3 -0.2
J19K	Poorman	65.36 334	P	P	23 45 34.1 +0.2
M17K	Holinta River	65.39 331	I Amb	I Amb	23 45 40.2
M17K	Holinta River	65.39 331	P	P	23 45 34.5 +0.4
G21K	Allakaket	65.41 337	I Amb	I Amb	23 45 35.5
G21K	Allakaket	65.41 337	P	P	23 45 34.9 +0.7
D23K	Nanushuk River	65.41 340	P	P	23 45 35.5 +1.3
E22K	Anaktuvuk Pass	65.44 339	P	P	23 45 34.9 +0.5
H20K	Anotleneega Mo	65.56 336	P	P	23 45 35.5 +0.3
SDPT	Sand Point	65.58 325	P	P	23 45 35.1 -0.3
SDPT	Sand Point	65.58 325	P	P	23 45 35.0 -0.4
J18K	Innoko River	65.66 334	P	P	23 45 36.2 +0.3
J18K	Innoko River	65.66 334	I Amb	I Amb	23 45 36.8
F21K	Alatna River	65.67 338	P	P	23 45 36.8 +1.0
C23K	Ikililik River	65.77 341	P	P	23 45 37.4 +0.9
N16K	Nishlik Lake	65.78 330	P	P	23 45 37.2 +0.6
EUNU	Eureka	65.83 1	P	P	23 45 36.8 0.0
L17K	Donlin	65.98 332	P	P	23 45 38.1 +0.2
O15K	Ungalikthiuk R	66.00 329	P	P	23 45 38.3 +0.2
D22K	Aiyikyak River	66.04 340	P	P	23 45 39.2 +1.0
D22K	Aiyikyak River	66.04 340	P	P	23 45 39.2 +1.0
K17K	Iditarod	66.14 333	I Amb	I Amb	23 45 44.5
K17K	Iditarod	66.14 333	P	P	23 45 39.5 +0.6
H19K	Roundabout Mou	66.19 336	I Amb	I Amb	23 45 40.2
H19K	Roundabout Mou	66.19 336	P	P	23 45 39.3 +0.1
E21K	Kiilik River	66.30 339	P	P	23 45 40.4 +0.5
N15K	Kwethluk River	66.35 330	P	P	23 45 41.2 +0.9
L16K	Owhat River	66.42 332	I Amb	I Amb	23 45 42.2
L16K	Owhat River	66.42 332	P	P	23 45 41.2 +0.5
F20K	Avaraart Lake	66.42 338	P	P	23 45 41.4 +0.8
S12K	Black Hills	66.52 325	P	P	23 45 42.2 +0.6
G19K	Purcell Mounta	66.64 337	I Amb	I Amb	23 45 43.4
G19K	Purcell Mounta	66.64 337	P	P	23 45 42.7 +0.6
J17K	VABM Dome	66.66 333	P	P	23 45 43.1 +0.8
TBI	Tubul	66.73 237	eS	S	23 54 34.4 +0.6
TBI	comp-Z,455nm,32.0s		eSS	SS	23 58 54.3 +2.1
O14K	Tiguykaiuvit M	66.74 329	P	P	00 05 45.6
C21K	Knifblade Rid	66.84 340	P	P	23 45 44.2 +0.9
H18K	Honhosa River	66.84 335	P	P	23 45 44.2 +0.8
B22K	Teshepkuk Lake	66.86 341	P	P	23 45 44.3 +0.9
R19K	Iklikpuk River				

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Urewera, Mont Dzumac, Kurchatov Arr, etc.

NEIC 30 23:38:51.7, 1.1, 6.24S, 0.09, -149.16E, 0.08, h72km, 12km, mb4.4/12, Error ellipse: s-maj=14.4km s-min=10.8km az=208.0

IDC 30 23:38:56.6, 3.7, 6.22S, 148.83E, h122km, 31km, mb3.5/13, mbtmp4.0/15, MS3.2/6, Error ellipse: s-maj=25.1km s-min=11.9km az=104.0

ISC 30 23:38:52.8, 0.6, 6.29S, 0.07, -149.10E, 0.09, h100km, n37, r154/34, mb3.8/16, New Britain region

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like Rabaul, MANU, JAY, COEN, HNR, MTN, EIDS, WBO, WRB, WRA, WRA, WRA, WRA, GUMO, KNRA, AS31, ASAR, DZM, ARMA, FITZ, FITZ, STKA, STKA, URZ, MJAR, KRSR, PETK, SONM, VNDA, MKAR, ZALV, KURBS, GSPA, ILAR, BVAR, TORD, BDFB.

NEIC 30 23:43:35.9, 2.1, 3.780N, 0.01, -114.33W, 0.02, h5km, 1km, Error ellipse: s-maj=3.1km s-min=2.9km az=50.0, Moment Tensor Solution... Principal axes: T 1.0638, P1g6.0000, Azm305.0000, N -0.0402, P1g41.0000, Azm39.0000, P -1.0235, P1g49.0000, Azm208.0000

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like s-min=6.2km az=78.0, ISC 30 23:43:38.1, 0.5, 37.79N, 0.03, -114.34W, 0.03, h10km, n111, r195/88, mb3.9, Southern Nevada

Table with columns: Code, Station Name, Az, Az', Phase ID, Time, Res, ISC. Includes stations like CCAC, Y14A, Y14A, TCUT, BLYTH, WAKR, WAKR, WAKR, X16A, X16A, HVU, HVU, PNTR, PNTR, PNTR, PV03, PV03, PV03, HW17, HW17, PFO, PFO, PFO, PV07, PV07, PV01, PV01, MVCO, MVCO, MPK, MPK, GLA, GLA, GLA, PEAR, X18A, X18A, BCW, BCW, BCW, 113A, 113A, BEKR, BEKR, O20A, O20A, PDAR, PDAR, ANMO, ANMO, ANMO, YBH, YBH, YBH, NEW, NEW, NEW, TXAR, TXAR, TXAR, ULM, ULM, YKA, YKA, ILAR, ILAR, HFS, HFS, FINES, FINES, AKASG, AKASG, ZALV, ZALV, SONM, SONM, BELG, BELG, BVAR, BVAR.

# ISC Computed Locations for June 2019

