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Das Buch ist als Hochschul-Lehrbuch für Studenten der Geologie und Geographie gedacht. Es soll aber auch einem größeren Leserkreis einen Einblick in die erdgeschichtliche Entwicklung und ihre Problematik ermöglichen. Die einleitenden Kapitel behandeln neben einer Darlegung der Ziele des Wissenschaftsgebietes Fragen der stratigraphischen Klassifikation und Terminologie, Methoden der Zeitbestimmung in der Geologie sowie die Grundlagen der Paläogeographie, der Paläoklimatologie und der Paläobiogeographie. Im Hauptteil des Buches wird die Entwicklung der Erde einschließlich der Entstehung des Lebens und seiner Entwicklung erläutert. Dabei gehen die Verfasser vor allem von den Verhältnissen in Europa aus.

Bestellungen durch eine Buchhandlung erbeten



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Seismological Bulletin 1977 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth,
and Joachim Weyrauch



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1982

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 HORST NEUNHÖFER und DOROTHEA GÜTH:
 Bulletin der Mikroerdbeben im Gebiet des Vogtlandes aus der
 Zeit von August 1962 bis Juni 1981 277

Preliminary notes for the interpretation of seismograms

In the Bulletin the international code is used:

1. Phase interpretation

- Pg — direct longitudinal wave in near epicentral distances ($D < 10^\circ$)
- Pb, Pn — guided longitudinal head waves along the CONRAD- or MOHORovičić-discontinuity ($D < 10^\circ$)
- P — direct longitudinal wave travelled through the earth mantle
- P diff — direct longitudinal wave diffracted around the core boundary
- PKIKP — direct longitudinal wave travelled through the inner core (travel-time branch DF)
- PKHKP — direct longitudinal wave refracted in the intermediary zone between inner and outer core. Phase symbol according to BOLT [1] (travel-time branch GH)
- PKP2 — direct longitudinal wave travelled through the outer core only (travel-time branch AB)
- PKP — first noticeable onset of longitudinal core phase not identified
- PP, PPP — waves reflected at the earth surface with permanent longitudinal character
- PKKP — core phase reflected once within the core at the outer core boundary
- PKPPKP — longitudinal core phase reflected at the earth surface
- Sg — direct transversal wave in near epicentral distances ($D < 10^\circ$)
- Sb, Sn — guided transversal head waves along the CONRAD- or MOHORovičić-discontinuity ($D < 10^\circ$)
- S — direct transversal wave travelled through the earth mantle

- SKS — direct wave travelled transversal through the mantle and longitudinal through the core
- SS, SSS — waves reflected at the earth surface with permanent transversal character
- SKKS — wave travelled transversal through the mantle, longitudinal through the core and reflected within the core at the outer core boundary
- PcP, ScS, PcS, ScP — longitudinal and transversal waves with steady or changing character reflected at the outer core
- PS, SP, PPS — longitudinal and transversal waves with changing character reflected at the surface of the earth
- pP, sP, pPP, sPP, pPKIKP, sPKP2, pS — phases of deep-focus earthquakes of longitudinal or transversal waves with steady or changing character. p;s — reflected near the epicentre
- pPKP, sPKP — phases of deep focus earthquakes of longitudinal core waves not exactly to be coordinated
- SKP, PKS — core phases with different character before and after the direct transit of the core
- SKSP — SKS wave with longitudinal character after the reflection at the surface of the earth
- P1, P2, P3, ..., S1, S2, ... — multiple onsets of body waves
- Pn, Sn — teleseismic Pn and Sn waves in the epicentral distances $23^\circ < D < 40^\circ$ after BATH [2]
- Pa, Sa — waves probably guided in the astenosphere channel or higher modes of surface waves
- PL — leaking modes, normal dispersed train of waves of periods greater than about 10 s, beginning at or near the time of initial P-wave
- X, Y, Z — remarkable phases of body waves, not to be identified
- LmV, LmH — maximum of the vertical and horizontal component respectively of longperiodical surface waves. If there are several maxima with comparable proportions in A/T, the numeration was carried out in a temporal sequence e.g. Lm1H, Lm2H

The phase symbol is followed by the designation of the type of seismometer from which the time of onsets is taken.

- A — seismograph with amplitude characteristic of type A (short-period)

- B — seismograph with amplitude characteristic of type B (middle-period)
- C — seismograph with amplitude characteristic of type C (long-period)

2. Measurements of amplitudes and calculation of magnitudes

All data of amplitudes and periods printed in the column "remarks" are always taken from the records of the same instruments, from which are taken the onset-times of the corresponding phases. The symbol of phase and component is followed by the symbol of the type of instruments e.g.: PV A, PV B, LmH B, LmV C.

Data of amplitudes obtained from records of instruments of type A are given in units of length of nm ($1 \text{ nm} = 1 \text{ nanometre} = 10^{-9} \text{ millimetre}$). Data of amplitudes obtained from instruments of type B and such obtained from instruments of type C are given in units of length μm ($1 \mu\text{m} = 1 \text{ micrometre} = 10^{-3} \text{ millimetre}$) e. g.: PVA 1.3 s 38.6 nm, SHB 10 s 3.2 μm , LmH B 22 s 15 μm .

Magnitudes are determined from all those phases, for which calibrating functions are known and internationally used, i. e.

for maxima of body waves P(PH, PV), PP(PPH, PPV), and S(SH)-Q-functions from GUTENBERG and RICHTER [3] — and

for maxima of surface waves ($h < 100 \text{ km}$) LmH, LmV — calibrating functions from Prague σ [4] —.

The station correction S was not yet taken into consideration.

- MB — magnitude of vertical component V of the first onset of P-waves given by NEIS
- MS — magnitude of horizontal component H of the maximum surface wave given by NEIS
- M — magnitude calculated from given data of station Moxa. Notice the wave type and the type of instruments written on the same line

3. Direction of body-wave onsets

If the direction of motion at the beginning of a wave onset is clearly to be recognized, the sign + or — is placed before the phase symbol. It means:

- in the Z component + ground motion upwards, compression
— ground motion downwards, dilatation
- in the N component + ground motion to the north
— ground motion to the south
- in the E component + ground motion to the east
— ground motion to the west

4. Further abbreviations

- i — sharp beginning of phase motion (impetus)
- e — gradual beginning of phase motion (emersio)

- D — epicentral distances in degree ($^{\circ}$), calculated to geocentric coordinates, the maximum error of the own calculations amounts to $\pm 0,1^{\circ}$.
- Az — azimuth: clockwise measured angle between north direction in epicentre and the connecting line from epicentre to station Moxa
- h — depth of focus in km. In case of own depth determinations on the basis of identified depth phases the travel-time curves for deep focus earthquakes after GUTENBERG and RICHTER [5] are used.
- H — origin time in UTC (Universal Time)
- NEIS — National Earthquake Information Service, Boulder, Colorado, USA
- CSEM — Centre Séismologique Européo-Méditerranéen, Strasbourg, France
- ANUSSR — Akademia Nauk USSR, Moscow, USSR
- ERDA — Energy Research and Development Administration, Las Vegas, Nevada, USA
- ISC — International Seismological Centre, Newbury, UK

All source data given in the column "Remarks" which are not the result of Moxa data evaluations are followed in brackets by the abbreviations of the reporting agency or station, respectively (e. g. NEIS, ISC, PRU). For abbreviation of seismological stations and other agencies in the international three letter code see the introductions to the Regional Catalogue of Earthquakes, Newbury and the Bulletin of the International Seismological Centre, Newbury. In all other instances round brackets indicate uncertainties in interpretation of phases, time, depth of focus or epicentral distances, respectively.

- [1] BOLT, A., The velocity of seismic waves near the earth's center. *Bull. Seism. Soc. Am.* 54 (1964) 1, 191–208.
- [2] BÄTH, M., Propagation of Sn and Pn teleseismic distances. *Pure and Applied Geophysics* 65 (1966/II) 19–30.
- [3] GUTENBERG, B. and RICHTER, C. F., Magnitude and energy of earthquakes. *Annali di Geofisica* 9 (1956) 1, 1–15.
- [4] KÁRNÍK, V., KONDORSKAJA, N. V. u. a., Standardization of the earthquake magnitude scale. *Stud. Geophys. et Geodet., Prague* 6 (1962) 41–48.
- [5] GUTENBERG, B. and RICHTER, C. F., Materials for the study of deep-focus earthquakes. *Bull. Seism. Soc. Am.* 26 (1936) 4, 341–390.

**Seismological Station Moxa (MOX)
of the Central Earth Physics Institute**

Elevation above
mean sea level: 455 m

Bedrock: clay slate of the lower carboniferous formation

Geographic
coordinates: $\varphi = 50^{\circ}38'46''N$ $\lambda = 11^{\circ}36'58''E$

Address: Central Earth Physics Institute
Seismological Service
DDR-6900, Jena, Burgweg 11
German Democratic Republic

Telex: 05886275 seis dd

Seismographs and their parameters 1977

- T_s — seismometer free period
- T_g — galvanometer free period
- D_s — seismograph damping
- D_g — galvanometer damping
- V_0 — magnification factor
- N — north-south component
- E — east-west component
- Z — vertical component
- σ^2 — coupling coefficient
- SKM — Seismograph Kirnos modified
- SSJ — Seismic Station Apparatus Type Jena
- VSJ — Vertical Seismograph Type Jena

Type of Seismograph		Comp.	T_s [s]	T_g [s]	D_s	D_g	V_0	σ^2
A	VSJ-II	Z	0.23	0.065	0.33	1.2	300000	0.048
	VSJ-II	Z	1.0	1.0	0.5	0.5	47200	0.560
	SKM-III	N	1.64	0.39	0.52	1.97	24000	0.047
A	SKM-III	E	1.63	0.40	0.50	1.93	24700	0.047
		Z	1.64	0.39	0.52	1.96	23400	0.050
		B	SSJ-I	N	20	1.15	0.51	8.70
B	SSJ-I	N	20	1.125	0.51	8.89	110	0.080
		E	20	1.15	0.50	8.73	1060	0.082
		E	20	1.12	0.50	8.97	90	0.082
		Z	20	1.146	0.50	8.73	1020	0.091
		Z	20	1.175	0.50	8.51	130	0.091
		C	SSJ-I/L (until Oct.)	N	30	85.0	1.42	0.5
C	SSJ-I/L (until Oct.)	E	30	75.8	1.26	0.5	1070	0.056
		Z	30	87.7	1.46	0.5	1040	0.094
		C	SSJ-I/L (from Oct. 08)	N	30	85.6	1.43	0.5
C	SSJ-I/L (from Oct. 08)	E	30	75.8	1.26	0.5	1080	0.056
		Z	30	87.7	1.46	0.5	1020	0.094

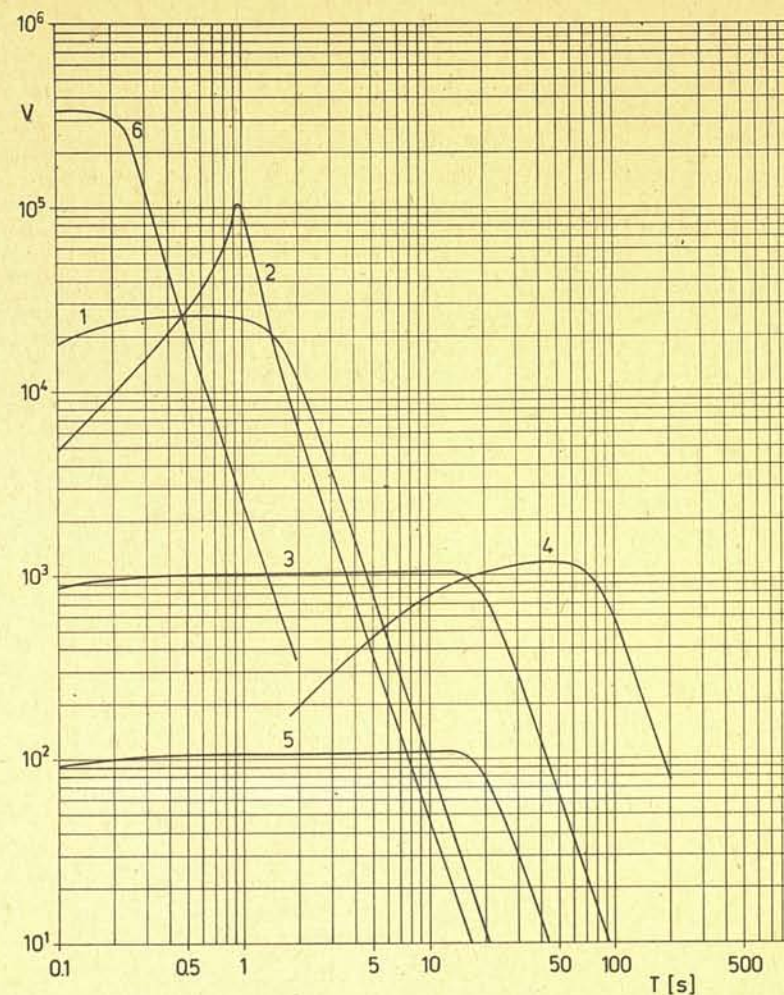


Fig. 1. Station Moxa, mean amplitude characteristics 1977

- 1 — Seismograph Kirnos Modified-III (SKM-III) (NS-, EW- and Z-component)
- 2 — Seismograph Type Jena II (Z-component)
- 3 — Seismic Station Apparatus Type Jena I/1000 (SSJ-I/1000) (NS-, EW- and Z-component)
- 4 — Seismic Station Apparatus Type Jena I/L (SSJ-I/L) (NS-, EW- and Z-component)
- 5 — Seismic Station Apparatus Type Jena I/100 (SSJ-I/100) (NS-, EW- and Z-component)
- 6 — Seismograph Type Jena II (Z-component)

Seismological Recordings at Station Moxa 1977

January 1977

Moxa

Day	Phase	h m s	Remarks
1.	iPn	A 17 10 13	<u>Northern Italy</u> 46.61 N 12.75 E
	ePg	A 10 32	H = 17 09 11.9 h = 33 km
	iSn	A 11 02.5	D = 4.11 Az = 350 (NEIS)
	eSg	A 11 26	
1.	eP	A 19 15 58	<u>Ceram Sea</u> 2.53 S 126.58 E
	ePP	BC 20 28	H = 19 01 39.6 h = 33 km MB=6.0 MS=6.1
	ePPP	BC 22 32	D = 107.6 Az = 323 (NEIS)
	eS	BC 28 04	LmH B 19s 4.2/um M = 6.0
	eSP	BC 29 40	LmV B 16 2.7/um 5.9
	ePPS	B 30 24	
	eSS	B 35 30	
	LmH	B 20 09.0	
	LmV	B 22.1	
	1.	eP	AB 21 49 16
eS		C 57 04	38.15 N 91.01 E
eSS		C 22 00 52	H = 21 39 41.3 h = 26.8 km MB=5.9 MS=6.3
e		B 01 25	D = 55.48 Az = 311 (NEIS)
eSSS		C 02 30	PV A 1.8s 298.0nm M = 6.0
LmH		B 14.2	PV B 8 1.8/um 6.2
LmV		B 14.2	LmH B 12.5 11.8/um 6.2
			LmV B 14 16.1/um 6.3
1.	ePKP2	AZ 23 45 10	<u>South Pacific Cordillera</u>
	e	A 45 20	56.15 S 142.93 W H = 23 24 16.6 h = 33 km MB = 5.4 (NEIS) D = 163.8
2.	eP	C 10 10 00	<u>Sumba Island Region</u> 10.17 S 118.99 E
	ePP	C 14 25	H = 09 55 28.4 h = 19.4 km MB=5.8 MS=6.3
	eSKS	C 20 35	D = 108.81 Az = 320 (NEIS)
	eS	B 22 00	LmH B 19.5s 6.4/um M = 6.2
	ePS	C 23 45	LmV B 18 5.9/um 6.2
	ePPS	C 24 35	
	LmV	B 11 06.8	
	LmH	B 06.9	

January 1977				Moxa
Day	Phase	h m s	Remarks	
2.	eP LmH LmV	A B B	19 42 50 57.0 58.0	<u>Turkey</u> 39.24 N 43.57 E H = 19 37 25.2 h = 34.1 km MB = 4.9 (NEIS) D = 25.1
4.	eP	A	15 09 37	<u>Near Coast of Oaxaca, Mexico</u> 15.29 N 94.35 W H = 14 56 46.1 h = 33 km MB = 5.2 D = 88.10 Az = 38 (NEIS) PV A 1.6s 27.5nm M = 5.3
5.	LmH LmV	C C	01 50.0 56.7	LmV C 16s 0.6/um
5.	-1P eS LmH LmV	A C B B	05 52 20 58 30 06 09.0 10.1	<u>Southern Iran</u> 27.46 N 56.20 E H = 05 44 39.9 h = 29 km MB=5.5 MS=5.2 D = 40.83 Az = 317 (NEIS) PV A 2.0s 111.0nm M = 5.2 LmH B 25 1.3/um 4.7 LmV B 21 1.1/um 4.8
5.	ePP LmH LmV	A B B	10 54 21 11 38.2 39.4	<u>Bonin Islands Region</u> 25.98 N 142.58 E H = 10 37 23.8 h = 20.5 km MB=5.1 MS=4.5 D = 92.28 Az = 331 (NEIS) LmH B 14s 0.7/um M = 5.2 LmV B 12 1.0/um 5.5
5.	ePKP	A	10 56 03.5	<u>Tonga Islands</u> 16.09 S 173.87 W H = 10 36 29.4 h = 33 km MB = 5.0 D = 145.25 Az = 354 (NEIS) PKPV A 1.2s 24.4nm
5.	ePKIKP 1PKHKP 1PKP2	A A A	13 48 28 48 33.2 48 40.2	<u>Fiji Islands Region</u> 20.81 S 178.31 W H = 13 29 48.1 h = 575.3 km MB = 5.2 D = 149.21 Az = 348 (NEIS) PKIKPV A 1.8s 47.4nm PKHKPV A 1.7 248.0nm PKP2V A 1.8 115.0nm

January 1977				Moxa
Day	Phase	h m s	Remarks	
5.	eP e	A A	14 21 38 22 00	<u>Burma - India Border Region</u> 25.43 N 95.18 E H = 14 10 56.5 h = 103.9 km MB=4.8 (NEIS) D = 66.8 traces
5.	eP ePP	A A	22 58 20 23 02 10	<u>Volcano Islands Region</u> 23.39 N 143.71 E H = 22 44 59.7 h = 33 km MB = 5.7 D = 95.03 Az = 332 (NEIS) PV A 1.2s 12.2nm M = 5.3
6.	eP	A	01 49 42	<u>Greenland Sea</u> 73.4 N 5.7 E H = 01 44 36 h = 33 km D = 23.02 Az = 170 (ISC)
6.	ePKP	A	04 28 52	<u>Fiji Islands Region</u> 17.95 S 178.54 W H = 04 10 17.8 h = 620.8 km MB = 4.6 D = 146.38 Az = 348 (NEIS) PKPV A 1.4s 18.6nm
6.	ePKP ePP ePP ePKKP iPS ePFS eSS eSSS LmV LmH	A B A A BC BC BC BC C C	06 30 30 31 48 31 54 40 55 41 28 42 40 48 04 52 19 07 22.5 22.6	<u>Near N. Coast of Papua New Guinea</u> 3.63 S 144.45 E H = 06 11 40.7 h = 33 km MB=6.0 MS=6.6 D = 118.72 Az = 328 (NEIS) PKPV A 1.5s 60.4nm PPV A 4.2 2271.2nm M = 7.1 PPV B 8 3.2/um 7.0 LmH C 20.5 91.1/um 7.4 LmV C 20.5 111.5/um 7.5
6.	eP e	A A	08 07 41 08 06	<u>Kurile Islands</u> 49.27 N 155.55 E H = 07 55 57.5 h = 33 km MB = 5.4 D = 75.79 Az = 337 (NEIS) PV A 1.9s 60.6nm M = 5.3
6.	ePg eSg	A A	14 21 15 21 29	<u>Bleicherode, German Democr. Republic (CLL)</u> D c. 1.0

January 1977			Moxa
Day	Phase	h m s	Remarks
6.	eP	A 16 14 03	<u>Andreanof Islands, Aleutian Is.</u> 51.48 N 175.48 W H = 16 02 07.6 h = 37.6 km MB=5.2 MS=5.3 D = 78.07 Az = 355 (NEIS) h = 56 km PV A 1.6s 38.5nm M = 5.2 LmH B 22.5 1.5/um 5.3 LmV B 26 1.8/um 5.3
6.	eP	A 18 43 15	<u>Lake Tanganyika Region</u> 2.51 S 28.70 E H = 18 33 43.5 h = 21.3 km MB = 5.3 D = 54.94 Az = 347 (NEIS) PV A 1.2s 24.4nm M = 5.1
6.	eP	A 22 00 03	<u>Tibet</u> 31.05 N 88.05 E H = 21 50 08.1 h = 33 km MB = 5.2 D = 58.41 Az = 313 (NEIS)
6.	ePg e(Sg)	A 23 37 36 A 38 29	<u>Jura, France</u> 47.32 N 6.35 E H = 23 35 47.1 (CSEM) D = 5.5
7.	eP	A 06 39 28	<u>Pakistan</u> 34.55 N 70.97 E H = 06 31 13.2 h = 46.3 km MB = 5.1 D = 45.32 Az = 310 (NEIS)
7.	LmV LmH	B 15 25.4 B 25.7	<u>South Atlantic Ridge</u> 31.28 S 13.24 W H = 14 38 22.4 h = 33 km MB = 5.3 MS = 5.5 (NEIS) D = 84.4 LmV B 20s 0.9/um M = 5.2
7.	ePKP2	A 17 34 54	<u>South of Fiji Islands</u> 25.18 S 176.96 W H = 17 14 47.3 h = 75.9 km MB = 5.0 D = 153.73 Az = 348 (NEIS)
7.	eP	A 19 49 21	<u>Taiwan Region</u> 21.17 N 120.28 E H = 19 36 46.9 h = 33 km MB=5.7 MS=5.1 D = 85.02 Az = 323 (NEIS)

January 1977			Moxa
Day	Phase	h m s	Remarks
cont. 7.	LmH LmV	B 20 32.8 B 32.8	PV A 1.6s 115.2nm M = 5.9 LmH B 14 2.5/um 5.7 LmV B 13 2.7/um 5.9
7.	e(P) LmH LmV	A 21 44 17 B 22 25.0 B 26.8	<u>Luzon, Philippine Islands</u> 18.74 N 120.81 E H = 21 31 27.3 h = 51.9 km MB=4.9 MS=4.5 D = 87.26 Az = 323 (NEIS) PV A 1.8s 33.8nm M = 5.3 LmH B 16 0.7/um 5.1 LmV B 16 0.7/um 5.2
8.	eP LmH LmV	A 06 54 04 B 07 42.7 B 42.9	<u>Luzon, Philippine Islands</u> 15.32 N 121.91 E H = 06 41 04.1 h = 36.2 km MB = 5.3 D = 90.60 Az = 323 (NEIS) PV A 1.2s 20.3nm M = 5.3 LmH B 16 1.2/um 5.4 LmV B 16 1.1/um 5.4
8.	ePKIKP LmH LmV	A 08 00 15 B 09 01.5 B 02.0	<u>Santa Cruz Islands</u> 11.27 S 166.11 E H = 07 40 41.9 h = 42 km MB=5.5 MS=5.6 D = 135.51 Az = 337 (NEIS) PKIKPV A 2.4s 82.9nm LmH B 20 1.6/um M = 5.7 LmV B 21 1.9/um 5.8
8.	ePKIKP epPKIKP LmH LmV	A 12 43 38 A 44 03 B 13 37.3 B 37.8	<u>New Britain Region</u> 5.59 S 150.96 E H = 12 24 45.4 h = 61.1 km MB = 5.3 D = 123.74 Az = 330 (NEIS) h = 89 km LmH B 24s 1.1/um LmV B 24 1.0/um
8.	eP	A 13 32 02	<u>Greenland Sea</u> 73.3 N 5.8 E H = 13 26 53.8 h = 0 km D = 22.92 Az = 171 (ISC) PV A 1.6s 33.0nm

January 1977			Moxa
Day	Phase	h m s	Remarks
8.	ePKIKP A	21 56 54.5	<u>Loyalty Islands Region</u> 22.24 S 170.35 E H = 21 37 16.0 h = 57.9 km MB = 5.1 D = 147.13 Az = 335 (NEIS) PKHKPV A 1.4s 41.9nm
	ePKHKP A	56 56.5	
9.	eP AZ	09 38 10	<u>South Atlantic Ridge</u> 16.76 S 14.19 W H = 09 26 54.3 h = 33 km MB = 5.3 D = 70.85 Az = 17 (NEIS) PV A 1.6s 33.0nm M = 5.1 XV A 1.4 41.9nm
	eX AZ	38 14.5	
9.	iPn A	14 27 36.5	<u>Austria</u> 46.23 N 13.09 E H = 14 26 26.7 h = 2.6 km D = 4.53 Az = 348 (NEIS)
	ePb A	27 48	
	iPg A	27 55	
	iSn A	28 26	
	e A	28 40	
iSg A	28 50		
10.	LmH B	09 17.5	<u>Mindanao</u> 8.36 N 125.29 E H = 08 19 02.5 h = 60 km MB = 5.1 (ISC) D = 98.2 LmH B 16s 0.8/um
10.	eP A	09 18 32	<u>Turkey</u> 39.58 N 27.40 E H = 09 14 43.6 h = 4 km MB = 4.1 D = 15.66 Az = 320 (NEIS) PV A 1.4s 18.6nm M = 4.1
10.	ePKHKP A	09 50 27	<u>Fiji Islands Region</u> 20.72 S 179.25 W H = 09 31 49.6 h = 653 km MB = 5.5 D = 148.93 Az = 347 (NEIS) PKHKPV A 1.5s 35.2nm
	ePKP2 A	50 33	
	e A	53 02	
10.	ePKP2 A	23 04 05	<u>Kermadec Islands Region</u> 28.66 N 176.67 W H = 22 43 41.3 h = 33 km D = 157.17 Az = 346 (ISC)
	epPKP2 A	04 13	

January 1977			Moxa
Day	Phase	h m s	Remarks
10.	ePKP AB	23 37 46.5	<u>Loyalty Islands</u> 21.49 S 168.66 E H = 23 18 07.0 h = 16.3 km MB = 5.2 D = 145.78 Az = 334 (NEIS) PKPV A 2.1s 364.2nm LmV C 18 0.4/um M = 5.3
	LmV C	24 22.3	
11.	LmH C	08 06.4	<u>Near Coast of Central Chile</u> 31.68 S 71.44 W H = 07 02 34.8 h = 35 km MB = 5.4 (NEIS) D = 109.8 LmH C 20s 0.5/um M = 5.1 LmV C 20 0.6/um 5.2
	LmV C	06.6	
11.	eP A	15 00 20	<u>Arabian Sea</u> 12.94 N 57.45 E H = 14 51 05.0 h = 33 km MB = 5.1 D = 52.85 Az = 325 (NEIS)
12.	ePKP A	08 00 20	<u>Loyalty Islands</u> 21.43 S 168.63 E H = 07 40 41.9 h = 33 km D = 145.71 Az = 334 (NEIS) PKPV A 2.0s 59.8nm
12.	eP A	18 51 43	<u>Kurile Islands</u> 44.52 N 149.13 E H = 18 39 54.5 h = 116.6 km MB = 4.7 D = 78.29 Az = 334 (NEIS) PV A 1.2s 10.2nm M = 4.7
12.	iP AB	23 47 49	<u>Northern Sumatra</u> 1.58 N 99.86 E H = 23 35 19.1 h = 178 km MB = 5.6 (NEIS) D = 87.6 h = 178 km PV A 1.4s 144.4nm M = 5.7
	ipP AB	48 34	
	eSKS B	57 52	
	eS B	58 12	
	eSP B	59 10	
esS B	59 24		
13.	-ePn A	09 21 03	<u>Yugoslavia</u> 43.55 N 17.10 E H = 09 19 06.1 h = 19.6 km MB = 5.3 D = 8.03 Az = 334 (NEIS) PnV A 1.3s 115.7nm M = 6.0 LmH B 7.5 7.8/um 4.8 LmV B 4 2.2/um
	ePb A	21 28	
	e A	22 54	
	LmH B	23.6	
	LmV B	23.8	

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Day	Phase	h m s	Remarks
14.	ePKIKP A	11 07 51	<u>New Ireland Region</u> 4.67 S 152.97 E H = 10 48 58.5 h = 74.8 km MB = 5.3 D = 123.92 Az = 331 (NEIS) traces
14.	LmH B LmV B	12 41.2 43.6	<u>Tibet</u> 34.70 N 82.71 E H = 12 09 33.1 h = 33 km MB = 4.7 (NEIS) D = 52.6 LmH B 18s 1.6/um M = 5.1 LmV B 16 1.0/um 5.0
14.	eP A	15 54 07	<u>Afghanistan - USSR Border Region</u> 36.61 N 71.41 E H = 15 46 11.1 h = 148.6 km MB = 4.8 D = 44.30 Az = 308 (NEIS) PV A 1.2s 16.3nm M = 4.6
14.	ePKHKP AZ ePKP2 A	18 17 41 17 44.5	<u>Fiji Islands Region</u> 19.80 S 177.54 W H = 17 58 35.2 h = 349.5 km MB = 5.2 D = 148.38 Az = 349 (NEIS) PKHKPV A 1.3s 83.0nm
14.	LmH B	23 26.0	<u>Northeastern China</u> 40.20 N 118.82 E H = 22 46 56.9 h = 33 km MB = 4.9 (NEIS) D = 69.5 LmH B 18.5s 1.5/um M = 5.3
15.	eSn A	00 17 34	<u>Switzerland</u> 46.45 N 9.58 E H = 00 15 45.5 h = 33 km D = 4.41 Az = 17 (NEIS)
15.	ePn A ePg A eSn A eSg A	00 30 52 31 20 32 02 32(40)	<u>Northern Italy</u> 44.88 N 8.99 E H = 00 29 25.1 h = 10 km D = 6.03 Az = 16 (NEIS)
15.	eP A LmH B	11 02 26 44.4	<u>Philippine Islands Region</u> 12.96 N 125.96 E H = 10 49 05.8 h = 33 km MB=5.6 MS=4.6

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Day	Phase	h m s	Remarks
cont. 15.	LmV B	11 48.8	D = 94.82 Az = 324 (NEIS) PV A 1.8s 33.8nm M = 5.5 LmH B 14 0.8/um 5.3 LmV B 17 0.9/um 5.3
15.	eP A	11 09 07	<u>Philippine Islands Region</u> 12.99 N 125.93 E H = 10 55 47.2 h = 33 km MB = 5.5 D = 94.78 Az = 324 (NEIS)
15.	eP A	24 03 23	<u>Morocco</u> 33.57 N 3.55 W H = 23 58 46.8 h = 33 km MB = 4.4 D = 20.37 Az = 29 (NEIS) PV A 1.5s 25.2nm M = 4.4
16.	eP A LmH B LmV B	09 20 25 26.7 26.7	<u>Southern Greece</u> 37.90 N 22.93 E H = 09 16 49.1 h = 52.1 km MB = 4.6 D = 15.08 Az = 331 (NEIS) PV A 0.8s 15.4nm M = 4.3 LmH B 12 1.2/um 4.3 LmV B 12 1.0/um 4.3
16.	LmH C LmV C	10 55.8 55.8	LmH C 18s 0.5/um LmV C 19 0.7/um
16.	LmV C LmH C	18 11.5 13.5	LmH C 18s 0.35/um LmV C 18 0.45/um
17.	eP A LmH B LmV B	05 24 50 38.5 38.5	<u>Turkey</u> 39.17 N 43.52 E H = 05 19 23.7 h = 33 km MB = 5.0 D = 25.14 Az = 308 (NEIS) LmH B 21s 10.1/um M = 5.3 LmV B 19 5.0/um 5.2
17.	eP A ePP BC eSKS BC eS C ePS C	06 36 41 40 20 47 10 47 35 48 44	<u>Bonin Islands Region</u> 26.68 N 142.58 E H = 06 23 36.1 h = 33 km MB=5.6 MS=5.6 D = 91.67 Az = 331 (NEIS) PV A 1.2s 36.6nm M = 5.7 LmH B 16 6.8/um 6.2

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Day	Phase	h m s	Remarks	
cont. 17.	eSS	C 06 53 36	LmV B 14s 7.9/um M = 6.3	
	LmH	B 07 19.4		
	LmV	B 27.8		
17.	eP	A 09 54 09	<u>South of Alaska</u> 53.87 N 158.21 W H = 09 42 25.6 h = 22 km MB = 5.1 D = 75.51 Az = 7 (NEIS) PV A 1.4s 23.3nm M = 5.0	
17.	ePn	A 15 38 57	<u>Poland</u> 50.97 N 16.1 E	
	eSn	A 39 28	H = 15 38 09 h = 0 km	
	eSg	A 39 41	D = 2.85 Az = 265 (ISC)	
17.	eP	A 19 09 23	<u>Unimak Islands Region</u> 54.1 N 164.3 W H = 18 57 41 D = 75.56 Az = 3 (ISC) PV A 1.2s 12.2nm	
17.	ePKP	A 19 24 11	<u>Fiji Islands Region</u> 14.87 S 177.23 W	
	LmV	C 20 24.4	H = 19 04 37.4 h = 36 km MB=5.3 MS=5.9	
	LmH	C 24.8	D = 143.61 Az = 350 (NEIS) PKPV A 2.0s 34.2nm LmH C 24 1.4/um M = 5.6 LmV C 24 1.8/um 5.7	
17.	eP	AB 21 41 14	<u>Chile - Argentina Border Region</u>	
	e	A 41 53	24.85 S 68.67 W	
	ePP	B 45 12	H = 21 27 12.6 h = 33 km MB=6.3 MS=6.1	
	ePP	A 45 20	D = 102.98 Az = 40 (NEIS)	
	eSKS	B 51 44	PV A 2.6s 138.7nm M = 6.2	
	eS	B 52 45	PPV A 2.8 257.5nm 6.2	
	ePS	B 54 15	LmH B 18.5 3.4/um 5.9	
	ePFS	B 55 20	LmV B 21 5.9/um 6.1	
	ePKKP	A 57 35		
	eSS	B 59 45		
	ePKPPKP	A 22 05 36		
	LmV	B 25.4		
	LmH	B 32.7		

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Day	Phase	h m s	Remarks	
17.	ePKHKP	A 23 02 15	<u>South of Fiji Islands</u> 23.77 S 179.93 E H = 22 43 18.5 h = 504.7 km MB = 4.9 D = 151.67 Az = 344 (NEIS)	
18.	ePKIKP	A 06 01 48	<u>Cook Strait, New Zealand</u>	
	ePKP2	A 02 47	41.73 S 174.25 E	
	LmH	B 07 22.2	H = 05 41 49.6 h = 49.8 km MB=5.9 MS=6.0	
	LmV	B 27.8	D = 165.06 Az = 313 (NEIS) PKIKPV A 1.8s 54.0nm LmH B 20 3.0/um M = 6.0 LmV B 20 1.7/um 5.9	
18.	eP	A 08 55 15	<u>Western Iran</u> 33.16 N 47.99 E	
	LmH	C 09 09.2	H = 08 48 54.1 h = 48 km MB = 5.2	
	LmV	C 11.2	D = 31.82 Az = 314 (NEIS) LmH C 20s 0.7/um M = 4.3 LmV C 16 0.9/um 4.6	
18.	LmV	C 12 26.7	<u>West Irian Region</u> 4.73 S 132.66 E	
	LmH	C 30.4	H = 11 17 21.8 h = 60 km MB = 5.3 (ISC) D = 112.9 LmH C 20.5s 0.9/um LmV C 24 1.0/um	
18.	ePKHKP	A 14 54 16	<u>South of Fiji Islands</u> 21.35 S 174.99 E H = 14 35 33.3 h = 538.6 km MB = 4.6 D = 147.97 Az = 340 (NEIS)	
18.	-eP	A 20 51 17.5	<u>Eastern Mediterranean Sea</u>	
			35.78 N 29.41 E	
			H = 20 46 51.9 h = 57 km MB = 4.4	
			D = 19.65 Az = 325 (NEIS) PV A 1.2s 34.6nm M = 4.5	
19.	+iP1	ABC 00 56 17	<u>Tsinghai Province, China</u> 37.02 N 95.70 E	
	iP2	A 56 23	H = 00 46 18.3 h = 33 km MB=5.9 MS=5.8	
	eS1	BC 01 04 28	D = 59.01 Az = 312 (NEIS)	
	eScS1	BC 06 05	PV1 A 1.8s 264.0nm M = 6.1	
	eP'P'1	A 26 00	PV2 A 1.6 280.0nm 6.1	

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Day	Phase	h m s	Remarks
cont. 19.	eP'P'2 A	01 26 06	LmH B 13s 10.9/um M = 6.2 LmV B 13 14.0/um 6.4
19.	e A	01 40 35.5	<u>Loyalty Islands Region</u> 23.42 S 171.2 E H = 01 20 37 h = 33 km D = 148.51 Az = 335 (ISC)
19.	ePP A	03 57 16	<u>Solomon Islands</u> 8.87 S 160.15 E H = 03 34 51.2 h = 80 km MB = 5.3 (NEIS) D = 137.8 PPV A 1.5s 35.2nm M = 5.3
19.	eP A	14 07 55	<u>Mindanao, Philippine Islands</u> 5.04 N 126.55 E H = 13 54 04.5 h = 50 km MB=5.8 MS=5.9 D = 101.55 Az = 324 (NEIS) PV A 2.0s 59.8nm M = 5.9 LmH C 24 8.4/um 6.2 LmV C 22 7.8/um 6.2
19.	ePKIKP A	15 13 40.5	<u>Fiji Islands Region</u> 20.80 S 178.66 W H = 14 55 05.7 h = 634.4 km MB = 5.0 D = 149.13 Az = 347 (NEIS) PKIKP traces PKHKPV A 1.4s 27.9nm
19.	eP A	20 50 15	<u>Tunisia</u> 36.59 N 8.49 E H = 20 46 53.3 h = 22 km MB = 5.1 D = 14.23 Az = 8 (NEIS) PV A 1.5s 47.8nm M = 4.9 LmH C 14 2.3/um 4.4 LmV C 20 1.4/um
20.	eP A	03 01 57	<u>Iceland</u> 65.78 N 17.32 W H = 02 57 13.0 h = 10 km (CSEM) D = 19.4

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Day	Phase	h m s	Remarks
20.	eP A	04 39 22.5	<u>Iceland</u> 65.74 N 16.82 W H = 04 34 37.8 h = 10 km MB = 4.3 D = 21.00 Az = 122 (NEIS) PV A 1.3s 17.5nm M = 4.3 LmH C 16 0.7/um 4.1 LmV C 17 0.6/um 4.2
20.	ePKHKP A	12 52 52	<u>South of Fiji Islands</u> 23.54 S 179.91 W H = 12 33 59.2 h = 545.9 km MB = 5.0 D = 151.50 Az = 345 (NEIS) epPKP A 55 04 PKHKPV A 1.2s 26.4nm
20.	eP A	20 22 45	<u>Taiwan Region</u> 20.98 N 120.34 E H = 20 10 09.7 h = 30 km MB = 5.2 D = 85.21 Az = 323 (NEIS) PV A 1.8s 54.1nm M = 5.5 LmH B 16 0.5/um 5.0 LmV B 16 0.5/um 5.1
20.	eP A	20 27 06	<u>Taiwan Region</u> 20.97 N 120.23 E H = 20 14 31.0 h = 33 km MB = 4.6 D = 85.16 Az = 323 (NEIS) PV A 1.6s 16.5nm M = 5.0
20.	eP A	21 04 43	<u>Mindanao, Philippine Islands</u> 8.39 N 123.03 E H = 20 51 14.9 h = 37.3 km MB=5.4 MS=4.9 D = 96.79 Az = 323 (NEIS) PV A 1.6s 16.5nm M = 5.3 LmH B 16 0.8/um 5.3 LmV B 16 0.9/um 5.4
21.	e A	00 25 45	<u>Western Poland</u> (CLL)
21.	eSg A	26 11	
21.	eP A	02 32 34.5	<u>Taiwan</u> 23.76 N 121.92 E H = 02 20 06.3 h = 35.7 km MB=5.3 MS=5.2 D = 83.89 Az = 323 (NEIS) LmH B 18s 1.5/um M = 5.4 LmV B 18 1.2/um 5.3

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Day	Phase	h m s	Remarks	
21.	ePKP epPKP	A A	06 29 39 32 00	<u>Fiji Islands Region</u> 18.01 S 178.38 W H = 06 11 05.6 h = 604 km MB = 5.8 D = 146.48 Az = 348 (NEIS) h = 650 km PKPV A 1.6s 181.0km
21.	ePKP	A	09 46 42	<u>Fiji Islands Region</u> 16.54 S 177.08 W H = 09 27 03.8 h = 33 km MB=5.0 MS=4.3 D = 145.26 Az = 350 (NEIS) PKPV A 2.0s 34.2nm
22.	ePKP	A	05 50 04	<u>Tonga Islands</u> 15.75 S 173.11 W H = 05 30 30.9 h = 33 km MB = 5.3 D = 144.99 Az = 355 (NEIS)
23.	ePKIKP ePP eSKP LmH LmV	A AC AC C C	01 57 47.5 02 00 30 01 20 03 00.4 00.8	<u>New Hebrides Islands</u> 13.38 S 166.51 E H = 01 38 23.5 h = 39.5 km MB=5.5 MS=5.6 D = 137.59 Az = 336 (NEIS) PKIKPV A 1.7s 24.2nm LmH C 21 1.4/um M = 4.0 LmV C 21 1.5/um 4.0
23.	iPn eSn iSg	A A A	10 59 48 00 19 11 00 27.5	<u>Western Poland</u> (CLL) D c. 2.6
23.	e(P) LmH LmV	A C C	15 07 37 50.2 53.8	<u>Bonin Islands Region</u> 26.79 N 142.95 E H = 14 54 15.5 h = 33 km MB = 4.9 D = 91.73 Az = 331 (ISC) (P) traces LmH C 16s 0.4/um M = 5.0 LmV C 17 0.5/um 5.1
24.	eP	A	06 23 18	<u>Kurile Islands</u> 45.48 N 151.05 E H = 06 11 24.7 h = 33 km MB = 5.1 D = 78.02 Az = 335 (NEIS) PV A 0.8s 11.5nm M = 5.0

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Day	Phase	h m s	Remarks	
24.	ePKHKP ePKP2 epPKP2	A A A	20 02 46 02 57 05 00	<u>South of Fiji Islands</u> 23.77 S 178.77 E H = 19 43 47.3 h = 463.8 km MB = 4.9 D = 151.37 Az = 343 (NEIS) h = 590 km PKHKPV A 1.4s 16.3nm
25.	LmH LmV	C C	01 55.3 55.8	<u>Mendoza Province, Argentina</u> 33.59 S 68.36 W H = 00 50 47.9 h = 17 km MB = 5.3 MS = 5.3 (NEIS) D = 109.5 LmH C 20s 0.7/um M = 5.2 LmV C 17 1.2/um 5.5
25.	LmH LmV	B C	03 39.2 45.5	<u>Burma</u> 17.33 N 94.17 E H = 02 05 52.0 h = 25 km MB = 4.8 D = 72.12 Az = 318 (NEIS) LmH B 19.5s 4.3/um M = 5.7 LmV C 20 1.6/um 5.3
25.	eP eS eSSS LmV LmH	A C C C C	06 44 57 53 08 59 30 07 02.8 03.0	<u>Central Mid - Atlantic Ridge</u> 7.62 N 37.19 W H = 06 34 55.1 h = 33 km MB = 5.0 D = 58.85 Az = 34 (NEIS) LmH C 32s 1.4/um M = 4.9 LmV C 29 2.0/um 5.1
25.	ePP LmH LmV	A C C	10 53 08 11 43.5 50.0	<u>Santa Cruz Islands Region</u> 10.93 S 164.66 E H = 10 31 04.9 h = 24.7 km MB=5.7 MS=5.2 D = 134.63 Az = 336 (NEIS) LmH C 20s 1.0/um M = 5.5 LmV C 20 0.8/um 5.4
26.	ePKIKP	A	03 39 11	<u>Tonga Islands</u> 18.71 S 173.31 W H = 03 19 24.9 h = 33 km MB = 4.6 D = 147.89 Az = 354 (NEIS)

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Day	Phase	h m s	Remarks
26.	eP	A 14 44 30	<u>Dodecanese Islands</u> 35.08 N 27.96 E H = 14 40 02.3 h = 10 km D = 19.57 Az = 328 (ISC)
26.	ePn	A 15 34 59	<u>Austria</u> 46.33 N 13.18 E
	ePg	A 35 17	H = 15 33 50.5 h = 10 km
	eSn	A 35 49	D = 4.44 Az = 347 (NEIS)
	eSg	A 36 11	
26.	eSn	A 21 15 11	<u>Austria</u> (TRI)
	eSg	A 15 38	
26.	LmH	C 23 45.7	<u>North Atlantic Ocean</u> 57.48 N 33.02 W
	LmV	C 45.8	H = 23 29 13.2 h = 33 km MB = 4.5 (NEIS) D = 26.7 LmH C 15s 1.9/um M = 4.8 LmV C 15 1.3/um 4.7
27.	e	A 00 29 18	<u>Near Coast of Pakistan</u> 24.7 N 62.6 E
	e	A 29 52	H = 00 20 42.0 h = 33 km MB = 4.8 D = 46.75 Az = 317 (ISC)
27.	eP	A 00 31 14	<u>Crete</u> 57.46 N 32.98 W
	LmV	C 42.1	H = 00 25 30.9 h = 10 km (CSEM)
	LmH	C 42.5	D = 26.8 LmH C 16s 0.4/um M = 4.1 LmV C 16 0.6/um 4.4
27.	ePKP	A 14 18 42	<u>New Britain Region</u> 6.51 S 152.78 E
	ePP	A 20 35.5	H = 13 59 45.0 h = 57.9 km MB = 5.7
	LmH	C 15 14.8	D = 125.42 Az = 331 (NEIS)
	LmV	C 15.8	PKPV A 2.0s 51.3nm PPV A 2.0 42.7nm M = 5.5 LmH C 20 0.7/um 5.3 LmV C 18 0.6/um 5.3
27.	eP	A 17 04 10	<u>Kurile Islands</u> 43.37 N 147.57 E
	e	A 04 54	H = 16 52 09.8 h = 41.4 km MB = 5.0 D = 78.82 Az = 333 (NEIS)

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Day	Phase	h m s	Remarks
28.	eP	A 00 53 41	<u>North Atlantic Ridge</u> 50.29 N 29.32 W
	LmH	C 01 03.0	H = 00 48 12.6 h = 33 km MB = 4.7
	LmV	C 03.0	D = 25.83 Az = 73 (NEIS) PV A 1.8s 27.0nm M = 4.5 LmH C 24 0.5/um 3.9 LmV C 24 0.6/um 4.1
28.	eP	A 01 18 18.5	<u>North Atlantic Ridge</u> 50.23 N 29.27 W
	LmV	B 27.6	H = 01 12 47.9 h = 33 km MB=4.7 MS=4.6
	LmH	B 28.0	D = 25.82 Az = 73 (NEIS) PV A 1.4s 14.0nm M = 4.4 LmH B 20 1.8/um 4.6 LmV B 22 1.9/um 4.7
28.	ePb	A 03 07 48	<u>Poland</u> 50.8 N 19.1 E
	eSg	A 08 04	H = 03 05 29 D = 4.75 Az = 271 (ISC)
28.	eP	A 14 17 08	<u>North Atlantic Ocean</u> 57.68 N 32.99 W
			H = 14 11 31.0 h = 33 km MB = 4.9 D = 26.63 Az = 86 (NEIS) LmH B 15.5s 1.1/um M = 4.5 LmV B 17 1.3/um 4.7
28.	ePKIKP	A 18 20 20	<u>New Hebrides Islands</u> 17.44 S 168.69 E
	LmH	B 19 26.6	H = 18 00 51.8 h = 14.4 km MB=5.4 MS=5.6
	LmV	B 27.4	D = 142.13 Az = 336 (NEIS) LmH B 19s 1.3/um M = 5.7 LmV B 18 1.3/um 5.7
29.	ePKIKP	A 01 11 46	<u>New Britain Region</u> 5.22 S 151.81 E
	LmV	C 02 06.9	H = 00 52 52.7 h = 55.5 km MB=5.6 MS=5.2
	LmH	C 07.3	D = 123.83 Az = 331 (NEIS) LmH C 24s 0.6/um M = 5.2 LmV C 22 0.7/um 5.3
29.	LmV	C 14 48.0	<u>Atlantic - Indian Rise</u> 33.75 S 56.33 E
	LmH	C 55.7	H = 13 56 06.0 h = 33 km MB=5.3 MS=5.3 D = 92.84 Az = 333 (NEIS)

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Day	Phase	h m s	Remarks
cont. 29.			LmH C 18s 0.4/um M = 4.9 LmV C 26 0.7/um 5.0
30.	LmV C LmH C	01 51.8 52.0	<u>Balleny Islands Region</u> 62.39 S 155.05 E H = 00 13 28.4 h = 33 km MB=4.8 MS=5.3 D = 157.01 Az = 256 (NEIS) LmH C 20s 0.8/um M = 5.5 LmV C 20 0.8/um 5.5
30.	LmH B LmV B	04 57.0 57.1	<u>Northeastern China</u> 39.50 N 118.02 E H = 04 11 57.3 h = 33 km MB = 5.2 MS = 4.3 (NEIS) D = 69.4 LmH B 14s 0.7/um M = 5.0 LmV B 15 0.8/um 5.1
30.	eP A LmH B LmV B	10 44 10 11 03.2 04.4	<u>Tadzhik - Sinkiang Border Region</u> 39.56 N 73.36 E H = 10 36 06.4 h = 33 km MB = 5.0 MS = 4.8 (NEIS) D = 43.8 PV A 1.5s 20.1nm M = 4.7 LmH B 18 1.1/um 4.8 LmV B 20 1.1/um 4.8
30.	iPn A eSn A eSg A	21 19 17 20 40 21 33	<u>Yugoslavia</u> 44.04 N 15.98 E H = 21 17 29.6 h = 10 km D = 7.24 Az = 337 (NEIS) PnV A 0.5s 26.9nm M = 5.7
31.	eP A	02 27 02	<u>Central Mid - Atlantic Ridge</u> 1.25 S 23.53 W H = 02 16 57.3 h = 33 km MB=5.0 MS=4.3 D = 59.75 Az = 25 (NEIS) PV A 1.8s 33.8nm M = 5.2
31.	ePn A eSn A	07 12 44 14 06	<u>Yugoslavia</u> 44.13 N 16.0 E H = 07 10 56.8 h = 0 km

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Day	Phase	h m s	Remarks
cont. 31.	eSg A	07 14 57	D = 7.60 Az = 337 (ISC)
31.	eP A	14 25 08	<u>Chagos Archipelago Region</u> 5.25 S 68.40 E H = 14 13 34.4 h = 33 km MB = 5.1 (NEIS) D = 74.0 PV A 1.6s 44.0nm M = 5.2
31.	+iP A ePP B eS B eSS B eSa B LmH B LmV B	14 34 05.2 35 40 40 20 42 50 43 35 54.0 54.0	<u>Tadzhik SSR</u> 40.04 N 70.85 E H = 14 26 14.8 h = 20 km MB = 6.1 MS = 5.9 (NEIS) D = 42.0 PV A 1.4s 172.1nm M = 5.6 LmH B 13.5 16.8/um 5.9 LmV B 12 13.8/um 5.7
31.	ePKP A LmH B LmV B	20 56 56 21 59.2 22 02.0	<u>Tonga Islands</u> 16.48 S 175.16 W H = 20 37 20.4 h = 48.6 km MB = 5.2 MS = 5.2 (NEIS) D = 145.5 PKPV A 1.8s 27.0nm LmH B 20 0.6/um M = 5.3 LmV B 24 1.0/um 5.5

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Day	Phase	h m s	Remarks
1.	eP A	13 14 50	<u>Kurile Islands</u> 48.17 N 154.45 E H = 13 03 03.7 h = 42 km MB = 5.4 (NEIS) D = 76.5 PV A 0.9s 19.5nm M = 5.1
1.	LmH B LmV B	15 23.0 23.0	<u>Off Coast of Northern California</u> 40.40 N 126.6 W H = 14 33 14.3 h = 2 km MB = 4.3 (ISC) D = 82.3 LmH B 20s 0.7/um M = 5.0 LmV B 20 0.7/um 5.1
1.	LmH B LmV B	21 45.4 46.2	<u>Bismarck Sea</u> 3.30 S 148.64 E H = 20 23 11.0 h = 25 km (ISC) D = 120.7 or <u>Bismarck Sea</u> 3.36 S 148.76 E H = 20 34 46.9 h = 33 km (ISC) D = 120.8 LmH B 22s 1.0/um M = 5.4 LmV B 22 1.6/um 5.7
2.	eP A	21 08 14	<u>Kurile Islands</u> 48.11 N 154.48 E H = 20 56 26.0 h = 33 km MB = 4.6 D = 76.58 Az = 337 (NEIS) traces
2.	e(Pg) A eSg A	23 04 02.5 04 43	<u>Poland</u> (CLL)
2.	ePKP A	23 08 08	<u>Fiji Islands Region</u> 18.17 S 178.34 W H = 22 49 38.9 h = 646.4 km MB = 4.9 D = 146.64 Az = 348 (NEIS) PKPV A 1.1s 28.2nm
3.	ePKP A epPKP A	04 52 48 53 20.5	<u>New Hebrides Islands</u> 20.86 S 169.68 E H = 04 33 23.8 h = 124.9 km MB = 4.7 (NEIS) D = 145.7 h = 119 km

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Day	Phase	h m s	Remarks
3.	iP A LmH B LmV B	10 50 19 11 28.0 28.0	<u>Kurile Islands</u> 45.37 N 150.44 E H = 10 38 23.4 h = 33 km MB = 5.5 (NEIS) D = 77.9 PV A 1.2s 34.6nm M = 5.3 LmH B 20 0.6/um 4.9 LmV B 20 0.8/um 5.1
3.	eP A	16 06 03	<u>Ionian Sea</u> 37.81 N 19.87 E H = 16 02 33.5 (CSEM) D = 14.22
3.	e A	20 32 08	<u>Loyalty Islands Region</u> 21.52 S 169.50 E H = 20 12 19.8 h = 33 km MB = 4.7 (NEIS) D = 146.2
4.	+iP AB epP AB esP AB iPP B esPP B iSKS B eS B eSP C ePS C esS C isSP C e(PKPP) A eSS C eSKKP A esSS C eSSS C LmH B LmV B	07 59 21.5 08 01 26.5 02 22 03 28 05 24 06 21 09 08 10 09 11 40 13 10 13 50 15 20 16 06 17 15 18 11 20 35 21 00 25.3 28.4	<u>Salta Province, Argentina</u> 24.69 S 63.36 W H = 07 46 33.8 h = 549 MB = 6.0 (NEIS) D = 99.8 h = 566 km PV A 1.3s 135.5nm M = 6.2 PV B 9 1.9/um 6.5 PPV B 8 3.6/um 6.7 LmH B 17 3.3/um LmV B 23 4.4/um
4.	ePn A ePg A eSn A iSg A	20 58 18 58 40 59 08.5 59 30.5	<u>Austria</u> 46.19 N 13.22 E H = 20 57 10.2 h = 33 km (NEIS) D = 4.6

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Day	Phase	h m s	Remarks
4.	eSg A	21 47 47.5	<u>France</u> 44.50 N 7.37 E H = 21 43 56.2 (CSEM) D = 6.80
5.	ePKIKP AB	03 48 36	<u>Southern Pacific Ocean</u> 66.45 S 82.58 W
	ePP B	51 16	H = 03 29 18.9 h = 33 km
	ePKS C	52 08	MB = 6.2 MS = 5.2 (NEIS)
	ePS C	04 01 55	D = 136.4
	ePPS C	03 20	PKIKPV A 1.7s 109.0nm
	e C	04 35	PKIKPV B 8 1.8/um
	LmH B	55.4	PPV B 8 1.6/um M = 6.2
	LmV B	57.9	LmH B 16.5 2.6/um 6.0 LmV B 17 2.7/um 6.0
5.	e(FKP) A	09 46 12	<u>New Hebrides Islands</u> 15.75 S 167.09 E
	LmH B	10 51.0	H = 09 26 37.5 h = 11.2 km
	LmV B	51.0	MB = 5.2 MS = 4.6 (NEIS) D = 140.1 LmH B 20s 0.7/um M = 5.4
5.	eP A	15 53 54	<u>Dominican Republic Region</u>
	LmH B	16 20.3	19.62 N 70.18 W
	LmV B	20.7	H = 15 42 44.3 h = 33 km MB = 5.0 MS = 4.8 (NEIS) D = 70.0 PV A traces LmH B 20s 1.2/um M = 5.1 LmV B 20 1.2/um 5.2
6.	eP A	00 40 42	<u>North Atlantic Ocean</u> 17.88 N 49.51 W
	e A	40 55	H = 00 30 49.9 h = 33 km MB = 5.2 (NEIS) D = 58.0 PV A 1.4s 27.9nm M = 5.2
6.	ePKIKP A	03 28 58.5	<u>Tonga Islands</u> 21.82 S 175.26 W
	ePKHKP A	29 04	H = 03 09 14.0 h = 33 km
	ePKP2 A	29 08	MB = 5.6 MS = 5.7 (NEIS) D = 150.7

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Day	Phase	h m s	Remarks
cont. 6.	LmH C	04 30.7	PKHKPV A 2.1s 249.0nm
	LmV C	33.0	PKP2V A 1.3 149.0nm LmH C 25 1.6/um M = 5.7 LmV C 25 1.9/um 5.8
6.	eP A	05 20 03	<u>Philippine Islands Region</u>
	e A	20 15	20.89 N 120.23 E H = 05 07 27.8 h = 33 km MB=5.2 MS=4.6 D = 85.2 PV A 1.5s 22.6nm M = 5.2
6.	ePg A	16 03 44	<u>Northern Italy</u> 44.53 N 7.40 E
	eSn A	04 24	H = 16 01 32.5 h = 33 km (NEIS) D = 6.8
6.	eP A	17 04 44	<u>India - Bangladesh Border Region</u>
	epP A	04 55	24.31 N 92.88 E H = 16 53 57.8 h = 41.8 km MB = 4.7 (NEIS) D = 66.2 h = 42 km
6.	ePn A	21 46 24	<u>Austria</u> 47.84 N 16.54 E
	ePg A	46 44	H = 21 45 19.5 (CSEM)
	eiSg A	47 39	D = 4.3
7.	eP A	00 20 00	<u>Tunesia</u> 35.68 N 10.73 E
			H = 00 16 23.9 (CSEM) D = 15.07
7.	LmH C	03 26.0	<u>Sulawesi (Celebes)</u> 2.22 S 120.78 E
	LmV C	26.0	H = 02 25 00 h = 39 km MB = 5.1 (ISC) D = 103.8
7.	ePn A	07 04 11	<u>Northern Italy</u> 45.39 N 9.39 E
	ePg A	04 49	H = 07 02 52.6 h = 33 km
	iSn A	05 10.5	D = 5.47 Az = 15 (NEIS)

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Day	Phase	h m s	Remarks
7.	eP	A 08 54 40.5	<u>Near East Coast of Honshu, Japan</u> 35.56 N 140.92 E H = 08 42 17.9 h = 47 km MB = 5.1 D = 83.25 Az = 330 km (NEIS) PV A 1.4s 18.6nm M = 4.9
7.	LmV	C 22 12.5	<u>Near Coast of Peru</u> 16.69 S 73.48 W H = 21 18 32.7 h = 39 km MB = 5.1 (ISC) D = 99.7 LmV C 22s 0.55/um M = 5.0
7.	ePKP	A 23 47 59	<u>Tonga Islands</u> 15.29 S 174.09 W H = 23 28 38.6 h = 131.7 km MB = 5.2 D = 144.43 Az = 354 (NEIS) PKPV A 1.5s 65.3nm
8.	eP	A 03 14 19.5	<u>Off East Coast of Kamchatka</u> 52.22 N 159.13 E H = 03 02 46.5 h = 33 km MB = 4.8 D = 73.89 Az = 339 (NEIS)
9.	eSg	A 03 01 51	<u>Poland (CLL)</u>
9.	e(P)	A 13 58 35.5	<u>Tunisia</u> 36.62 N 8.37 E H = 13 55 02.0 h = 33 km MB = 4.9 D = 14.22 Az = 8 (NEIS)
10.	ePKP	A 03 46 38	<u>Loyalty Islands Region</u> 21.88 S 169.83 E H = 03 26 59.0 h = 38 km MB=4.9 MS=5.0 D = 146.60 Az = 335 (NEIS) PKPV A 1.4s 41.9nm
10.	ePn	A 06 22 33	<u>Adriatic Sea</u> 44.92 N 14.82 E
	eSn	A 23 43.5	H = 06 21 03.3 (CSEM)
	eSg	A 24 30.5	D = 6.16
10.	+eiPKP	A 08 15 35	<u>Loyalty Islands Region</u> 21.82 S 169.94 E
	LmV	C 09 24.5	H = 07 55 56.7 h = 41.5 km MB=5.2 MS=5.4

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Day	Phase	h m s	Remarks
cont. 10.	LmH	C 09 33.4	D = 146.59 Az = 335 (NEIS) PKPV A 1.2s 85.4nm LmH C 19 0.9/um M = 5.5 LmV C 20 0.9/um 5.5
10.	eSg	A 10 15 47	<u>Hungary</u> 46.32 N 17.41 E H = 10 12 33.6 (CSEM) D = 5.8
10.	eSg	A 10 17 17	<u>Hungary</u> 46.43 N 17.29 E H = 10 14 18.6 (CSEM) D = 5.7
10.	e	A 22 59 56	<u>South Sandwich Islands Region</u> 60.93 S 23.09 W H = 22 41 06.2 h = 33 km MB=6.3 MS=6.2 D = 114.67 Az = 24 (NEIS)
	LmH	B 23 46.5	LmH B 16.5s 2.4/um M = 5.9
	LmV	B 52.7	LmV B 14 2.4/um 6.0
10.	ePKP2	A 23 25 35	<u>Kermadec Islands</u> 29.32 S 177.03 W H = 23 05 11.3 h = 52.8 km MB=4.3 (NEIS) D = 157.8
10.	ePKP2	A 23 40 38	<u>Kermadec Islands</u> 29.53 S 176.99 W H = 23 20 13.6 h = 51.3 km (NEIS) D = 157.8
11.	eP	A 07 40 40.5	<u>Poland (CLL)</u>
	iSg	A 41 19	
11.	LmV	B 12 32.5	<u>Galapagos Islands</u> 1.20 N 90.70 W H = 11 39 06.1 h = 33 km MB = 4.8 (ISC) D = 96.9
	LmH	B 32.8	or <u>Galapagos Islands</u> 1.56 N 90.63 W H = 11 41 30.0 h = 33 km MB = 5.1 (ISC) D = 96.4 LmV B 20s 0.8/um M = 5.2

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Day	Phase	h m s	Remarks
11.	iPn	A 18 34 35.0	<u>Swabian Jura, Fed. Rep. of Germany</u> 48.39 N 9.06 E
	iPg	A 34 45	H = 18 33 52.6 h = 33 km
	eSn	A 35 11	D = 2.81 Az = 35 (NEIS)
	iSg	A 35 23	
11.	eP	A 22 07 08.5	<u>North Atlantic Ridge</u> 50.65 N 30.04 W
	LmV	C 16.0	H = 22 01 36.3 h = 33 km MB = 4.8 D = 26.17 Az = 74 (NEIS) LmV C 20s 0.6 μ m M = 4.3
12.	ePKP	A 04 26 36	<u>Loyalty Islands Region</u> 21.98 S 169.82 E H = 04 06 55.0 h = 36.1 km MB = 4.9 D = 146.68 Az = 335 (NEIS)
12.	eP	A 04 57 15	<u>Afghanistan - USSR Border Region</u> 36.99 N 71.28 E H = 04 49 16.0 h = 98 km MB = 5.4 D = 43.99 Az = 308 (NEIS) PV A 1.6s 33.0nm M = 4.9
13.	ePKP	A 01 48 32	<u>Loyalty Islands Region</u> 22.10 S 169.63 E H = 01 28 51.8 h = 33 km MB = 4.7 D = 146.72 Az = 334 (NEIS)
13.	ePKP	A 01 58 57	<u>Loyalty Islands Region</u> 22.00 S 169.62 E
	e	A 02 00 12	H = 01 39 15.2 h = 38.9 km MB = 5.0 D = 146.62 Az = 334 (NEIS)
13.	eP	A 04 20 05.5	<u>Luzon, Philippine Islands</u> 15.68 N 119.16 E
	eS	B 31 00	H = 04 07 14.5 h = 33 km MB=5.7 MS=4.8
	eSS	C 36 55	D = 88.72 Az = 323 (NEIS)
	eSSS	C 40 40	PV A 1.6s 49.5nm M = 5.6
	eSSSS	C 43 45	LmH B 15.5 4.6 μ m 6.0
	LmH	B 59.0	LmV B 12 1.7 μ m 5.7
	LmV	B 05 07.3	
13.	eP	A 06 02 53	<u>Kamchatka</u> 54.06 N 158.63 E H = 05 51 45.3 h = 167.3 km MB = 5.0 D = 72.06 Az = 339 (NEIS)

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Day	Phase	h m s	Remarks
13.	ePKP	A 11 56 41	<u>Loyalty Islands Region</u> 22.01 S 169.86 E H = 11 37 00.7 h = 33 km MB = 4.5 D = 146.73 Az = 335 (NEIS)
13.	eP	A 13 20 56	<u>Molucca Sea</u> 0.12 S 125.06 E
	e	A 24 02	H = 13 06 51.3 h = 33 km MB=5.8 MS=5.0
	LmV	C 14 07.3	D = 104.77 Az = 323 (NEIS)
	LmH	C 07.9	PV A 1.0s 27.6nm M = 6.1 LmH C 24 1.3 μ m 5.4 LmV C 32 1.4 μ m 5.3
13.	ePKP	A 14 21 48	<u>Loyalty Islands Region</u> 21.96 S 169.90 E H = 14 02 08.2 h = 33 km MB = 5.2 D = 146.70 Az = 335 (NEIS)
13.	eP	A 15 13 37	<u>Jan Mayen Islands Region</u> 70.77 N 14.02 W H = 15 08 29.8 h = 33 km MB = 4.5 D = 23.40 Az = 136 (NEIS)
14.	eP	A 00 31 11	<u>Pakistan</u> 33.60 N 73.25 E
	LmV	C 55.2	H = 00 22 38.4 h = 33 km MB = 5.2
	LmH	C 55.4	D = 47.38 Az = 310 (NEIS) LmH C 12s 0.3 μ m M = 4.4 LmV C 13 0.3 μ m 4.6
14.	eP	A 09 20 42	<u>Near East Coast of Honshu, Japan</u> 35.70 N 140.06 E H = 09 08 26.1 h = 78.6 km MB = 4.8 D = 82.77 Az = 330 (NEIS) traces
15.	ePn	A 10 46 02.5	<u>Austria Yugoslavia</u> 46.62 N 14.2 E
	ePg	A 46 17.5	H = 10 44 55 h = 0 km
	eSn	A 46 51	D = 4.37 Az = 338 (ISC)
	eSg	A 47 12	
15.	ePKHKP	A 23 00 47	<u>Tonga Islands</u> 19.43 S 175.19 W H = 22 41 10.2 h = 89.2 km MB = 5.2 D = 148.38 Az = 352 (NEIS)

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Day	Phase	h m s	Remarks
16.	+1P A	00 56 47.5	<u>North Atlantic Ocean</u> 25.97 N 26.26 W
	LmH B	01 25.6	H = 00 49 31.2 h = 33 km MB = 5.5
	LmV B	25.8	D = 37.98 Az = 39 (NEIS) PV A 1.2s 182.9nm M = 5.8 LmH B 16 0.4/um 4.3 LmV B 16 0.5/um 4.5
16.	eP A	10 54 26	<u>Molucca Passage</u> 0.50 N 125.98 E
	ePP A	58 47	H = 10 40 20.9 h = 33 km MB=6.1 MS=5.6
	eSKS C	11 05 05	D = 104.83 Az = 323 (NEIS)
	ePS C	07 50	PV A 1.8s 33.8nm M = 6.0
	LmV B	44.2	LmH B 22 2.5/um 5.7
	LmH B	44.3	LmV B 21 2.7/um 5.8
16.	ePn A	19 35 36	<u>Yugoslavia</u> 45.97 N 15.99 E
	eSn A	36 38	H = 19 34 12.2 h = 15.5 km
	iSg A	37 10.5	D = 5.52 Az = 330 (NEIS)
17.	eP A	13 43 32	<u>Kamchatka</u> 58.92 N 163.82 E
	LmV C	14 15.0	H = 13 32 31.7 h = 33 km MB=5.2 MS=4.1
	LmH C	16.0	D = 68.47 Az = 341 (NEIS) PV A 1.2s 32.5nm M = 5.3 LmH C 14 0.45/um 4.9
17.	e(pPKF) A	18 40 14.5	<u>Tonga Islands</u> 16.78 S 174.59 W H = 18 20 04.2 h = 152 km (NEIS) D = 145.8
18.	ePKHKP A	02 16 43.5	<u>South of Fiji Islands</u> 24.68 S 175.96 W H = 01 56 47.3 h = 35 km MB = 5.0 (NEIS) D = 153.3
18.	eP AB	04 20 17.5	<u>Hokkaido, Japan Region</u> 41.41 N 142.04 E
	eSKS C	30 45	H = 04 08 13.4 h = 4.9 km MB=5.5 MS=5.6
	LmH B	52.2	D = 78.60 Az = 330 (NEIS)
	LmV B	58.1	PV A 1.1s 24.2nm M = 5.2 LmH B 19.5 2.7/um 5.6 LmV B 18 2.7/um 5.7

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Day	Phase	h m s	Remarks
18.	ePKIKP A	06 51 00	<u>South of Fiji Islands</u> 24.41 S 176.28 W
	ePKHKP A	51 09.5	H = 06 31 23.7 h = 121.9 km MB = 5.1
	ePKP2 A	51 21	D = 153.10 Az = 349 (NEIS)
18.	ePKP A	11 58 38	<u>Tonga Islands</u> 16.62 S 173.41 W H = 11 39 00.7 h = 37.7 km MB = 4.7 D = 145.82 Az = 354 (NEIS)
18.	eP A	14 24 45	<u>Central Mid-Atlantic Ridge</u>
	e A	24 53	8.82 N 39.72 W
	LmV C	47.0	H = 14 14 44.1 h = 33 km MB = 4.5 D = 59.30 Az = 35 (NEIS) LmV C 19s 0.35/um M = 4.6
18.	eP AB	21 04 04	<u>South of Honshu, Japan</u> 33.07 N 140.82 E
	ePP AB	07 20	H = 20 51 29.8 h = 42.1 km MB=6.0 MS=5.7
	eS B	14 22	D = 85.36 Az = 330 (NEIS)
	eSS C	20 05	PV A 1.8s 318.0nm M = 6.2
	eSSS C	23 40	LmH B 16 4.5/um 5.9
	LmH B	47.5	LmV B 16.5 5.0/um 6.0
19.	eP A	04 14 59.5	<u>South of Honshu, Japan</u> 33.08 N 140.82 E
	epP A	15 16.5	H = 04 02 24.2 h = 51.6 km MB = 5.2
	esP A	15 25	D = 85.35 Az = 330 (NEIS) h = 67 km
19.	eP A	06 24 32.5	<u>Tibet - India Border Region</u>
	LmV B	48.9	31.79 N 78.42 E
	LmH B	50.4	H = 06 15 25.0 h = 40.2 km MB = 5.4 D = 51.84 Az = 312 (NEIS) PV A 1.0s 31.5nm M = 5.3 LmH B 18 0.6/um 4.6 LmV B 12 1.1/um 5.2
19.	LmH B	09 09.2	<u>Mid - Indian Rise</u> 41.31 S 80.52 E
	LmV B	11.0	H = 07 53 23.6 h = 33 km MB = 5.8 (ISC) D = 109.5 LmH B 18s 1.4/um M = 5.6 LmV B 17 1.1/um 5.5

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Day	Phase	h m s	Remarks
19.	+iP AB	22 45 41.5	<u>Near Islands, Aleutian Is.</u>
	iPP B	48 30	53.57 N 170.03 E
	iS B	55 15	H = 22 34 04.1 h = 33 km MB=6.2 MS=6.7
	iPS B	55 56	D = 74.59 Az = 346 (NEIS)
	iSS B	59 56	PV A 1.5s 512.6nm M = 6.3
	LmH B	23 24.0	PV B 14 16.1/um 6.8
	LmV B	27.0	PPV B 13 10.3/um 6.8
			SH B 15 13.1/um 6.9
		LmH B 16 34.2/um 6.7	
		LmV B 15 31.0/um 6.8	
19.	eP A	23 52 34	<u>Tibet</u> 34.70 N 81.26 E
			H = 23 43 26.4 h = 18.6 km MB = 5.1
			D = 51.72 Az = 311 (NEIS)
		PV A 1.5s 50.3nm M = 5.2	
20.	eP A	07 13 41	<u>Kodiak Island Region</u> 57.04 N 153.88 W
			H = 07 02 20.4 h = 51.5 km MB = 4.7
			D = 72.01 Az = 10 (NEIS)
20.	eP A	08 12 36.5	<u>Near Islands, Aleutian Is.</u>
			53.27 N 170.34 E
			H = 08 00 58.4 h = 42 km MB = 4.9
		D = 74.91 Az = 346 (NEIS)	
20.	eP A	11 21 45	<u>Adriatic Sea</u> 43.87 N 15.79 E
			H = 11 19 58.4 h = 33 km MB = 4.3
			D = 7.35 Az = 339 (NEIS)
21.	eP A	13 07 29.5	<u>Turkey</u> 39.91 N 40.03 E
			H = 13 02 31.0 h = 33 km MB = 4.6
			D = 22.56 Az = 308 (NEIS)
			PV A 1.4s 23.2nm M = 4.5
21.	eP A	17 47 41	<u>Ionian Sea</u> 37.48 N 20.51 E
	e A	47 48	H = 17 44 15.3 h = 52.9 km MB = 4.8
			D = 14.61 Az = 337 (NEIS)

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Day	Phase	h m s	Remarks
21.	-eP A	20 13 22.5	<u>Alaska Peninsula</u> 55.91 N 161.89 W
	epP A	14 05	H = 20 02 06.0 h = 167.2 km MB = 5.0
			D = 73.67 Az = 4 (NEIS)
			h = 180 km
			PV A 1.3s 48.0nm M = 5.1
22.	LmH B	15 18.0	<u>Off Coast of Southern Chile</u>
	LmV B	19.3	45.39 S 75.3 W
			H = 14 10 10.3 h = 33 km MB = 5.1 (ISC)
			D = 121.5
			LmH B 23s 1.4/um M = 5.6
			LmV B 20 1.6/um 5.7
22.	eP A	19 56 23.5	<u>North Atlantic Ridge</u> 32.23 N 40.37 W
	eS C	20 02 50	H = 19 48 35.2 h = 33 km MB=5.2 MS=4.8
	LmH B	10.3	D = 42.18 Az = 48 (NEIS)
	LmV B	12.0	PV A 2.4s 138.0nm M = 5.3
			LmH B 20 1.7/um 4.9
			LmV B 16 1.7/um 5.1
23.	ePKP A	00 26 53	<u>Tonga Islands</u> 15.29 S 173.67 W
			H = 00 07 18.2 h = 33 km MB = 4.9
			D = 144.48 Az = 354 (NEIS)
23.	iPKHKP A	00 41 30	<u>South of Fiji Islands</u> 21.97 S 179.63 W
	ePKP2 A	41 38	H = 00 22 47.3 h = 643 km MB = 5.2 (NEIS)
			D = 150.0
			PKHKPV A 0.8s 34.6s
23.	eP A	06 41 52	<u>Azores Islands</u> 38.38 N 30.10 W
	LmH C	53.0	H = 06 35 27.8 h = 33 km MB = 4.5
	LmV C	53.0	D = 31.75 Az = 54 (NEIS)
23.	LmH B	13 32.5	<u>Luzon</u> 17.47 N 120.21 E
	LmV B	36.3	H = 12 37 17.3 h = 59 km MB = 5.3 (ISC)
			D = 87.8
			LmH B 18s 0.3/um
			LmV B 18 0.45/um

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Day	Phase	h m s	Remarks
23.	eP	A 20 24 52.5	<u>Southern Greece</u> 36.99 N 21.96 E H = 20 21 18.0 h = 79.8 km MB = 4.3 D = 15.54 Az = 335 (NEIS) LmH C 19s 0.6/um LmV C 19 0.7/um
	LmH	C 31.9	
	LmV	C 31.9	
24.	ePKP	A 04 57 06	<u>Tonga Islands</u> 18.55 S 174.48 W H = 04 37 40.7 h = 186 km MB = 4.8 (NEIS) D = 147.5
24.	eP	A 09 02 02	<u>Ascension Island Region</u> 11.69 S 13.62 W H = 08 51 16.6 h = 33 km MB=5.1 MS=5.5 D = 65.86 Az = 17 (NEIS) PmV A 1.8s 40.5nm M = 5.2 LmH B 20 3.8/um 5.6 LmV B 20 3.1/um 5.6
	Pm	A 02 10	
	eS	C 10 50	
	eSS	C 14 50	
	eSSS	C 17 55	
	LmH	B 25.2	
	LmV	B 29.7	
24.	eP	A 11 51 51	<u>Hokkaido, Japan Region</u> 42.39 N 142.51 E H = 11 40 00.0 h = 75 km MB = 5.3 D = 77.93 Az = 331 (NEIS) h = 84.8 km PV A 1.4s 37.2nm M = 5.1 LmH B 17 1.0/um LmV B 15 0.9/um
	epP	A 52 12	
	LmH	B 25.1	
	LmV	B 30.8	
24.	eP	A 16 16 35.5	<u>Dodecanese Islands</u> 37.89 N 26.77 E H = 16 12 33.8 h = 33 km MB = 4.0 D = 16.70 Az = 325 (NEIS) PV A 1.4s 18.6nm M = 4.0
24.	ePKP	A 16 29 43.5	<u>Fiji Islands Region</u> 17.64 S 178.90 W H = 16 11 05.4 h = 543.4 km MB = 4.9 D = 146.01 Az = 348 (NEIS) PKPV A 1.4s 23.3nm
24.	+iP	AB 20 51 14.5	<u>Turkey</u> 38.74 N 27.72 E H = 20 47 21.3 h = 43 km MB = 5.0
	eS	B 54 30	

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Day	Phase	h m s	Remarks
cont. 24.	LmH	B 20 56.9	D = 16.48 Az = 321 (NEIS)
	LmV	B 21 00.3	PV A 2.0s 145.3nm M = 4.8 PH A 2.1 145.7nm 4.8 LmH B 13.5 3.1/um 4.7 LmV B 12 1.7/um 4.6
24.	ePKHKP	A 22 23 37	<u>Fiji Islands Region</u> 20.15 S 178.16 W H = 22 04 54.8 h = 597.3 km MB = 4.8 D = 148.60 Az = 348 (NEIS) PKHKPV A 0.8s 17.3nm
25.	ePKIKP	A 01 18 31	<u>East Papua New Guinea Region</u> 6.28 S 147.56 E H = 00 59 38.5 h = 49.4 MB=5.4 MS=5.5 D = 122.59 Az = 328 (NEIS)
25.	ePKIKP	A 01 37 44	<u>East Papua New Guinea Region</u> 6.29 S 147.53 E H = 01 18 52.8 h = 51.9 km MB=5.9 MS=5.9 D = 122.58 Az = 328 (NEIS) PKIKPV A 1.1s 22.2nm PPV C 20 0.8/um M = 5.9 LmH B 22 2.8/um 5.9 LmV B 18 2.2/um 5.9
	e	A 39 46	
	ePP	C 40 20	
	ePS	C 49 15	
	eSS	C 56 15	
	LmH	B 02 30.5	
	LmV	B 33.8	
25.	ePKP	A 01 43 32.5	<u>Eastern New Guinea Region</u> 6.32 S 147.68 E H = 01 24 41.1 h = 49 km D = 122.68 Az = 328 (ISC)
25.	eP	A 04 43 47	<u>Western Iran</u> 32.52 N 49.43 E H = 04 37 15.9 h = 66.3 km MB = 4.8 D = 33.12 Az = 314 (NEIS)
25.	ePKP	A 18 40 11.5	<u>Fiji Islands Region</u> 18.00 S 178.35 W H = 18 21 35.2 h = 605.4 km MB = 4.3 D = 146.47 Az = 349 (NEIS)

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Day	Phase	h m s	Remarks
26.	ePKHKP A	00 40 14.5	<u>Tonga Islands</u> 18.96 S 174.14 W H = 00 20 30.6 h = 33 km MB = 5.3 D = 148.05 Az = 353 (NEIS) PKHKPV A 1.5s 20.1nm
26.	epPKP A ePP A LmV C LmH B	14 27 34 31 47 15 27.2 33.0	<u>Fiji Islands Region</u> 17.32 S 176.96 W H = 14 07 42.1 h = 74 km MB = 4.8 D = 146.05 Az = 350 (NEIS) pPKPV A 1.2s 20.3nm LmH B 18 0.3/um LmV C 24 0.5/um
26.	LmV C	19 39.5	LmV C 17s 0.3/um
26.	eP A LmH B LmV C	22 50 26.5 23 03.0 03.0	<u>Canary Islands Region</u> 28.53 N 20.84 W H = 22 43 48.9 h = 10 km MB = 4.7 D = 32.95 Az = 39 (NEIS) PV A 1.3s 32.8nm M = 5.1 LmH B 14 0.3/um 4.1 LmV C 16 0.3/um 4.2
27.	eP A LmV C	04 09 47 21.2	<u>Azores Islands Region</u> 37.54 N 31.92 W H = 04 03 09.4 h = 33 km MB=4.6 MS=4.8 D = 33.41 Az = 53 (NEIS) LmV C 21s 0.45/um M = 4.3
27.	ePP A	08 47 22.5	<u>Sunda Strait</u> 6.34 S 104.87 E H = 08 30 00.6 h = 59.3 km MB = 5.4 D = 96.92 Az = 320 (NEIS) PPV A 1.8s 33.8nm M = 5.6
27.	-iP A e A ePP A	09 29 57.5 31 02 31 49	<u>Tadzhik SSR</u> 38.07 N 72.69 E H = 09 21 57.2 h = 111.7 km MB = 5.1 D = 44.23 Az = 307 (NEIS) PV A 1.0s 37.4nm M = 5.1
27.	eP A	12 39(31)	<u>Off East Coast of Kamchatka</u> 53.84 N 161.53 E H = 12 28 00.4 h = 43.6 km MB = 4.4 D = 72.87 Az = 340 (NEIS)

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Day	Phase	h m s	Remarks
27.	ePP A	18 51 08	<u>Mariana Islands</u> 18.65 N 145.29 E H = 18 34 08.5 h = 579 km MB=5.0 (NEIS) D = 100.0 PPV A 1.9s 60.6nm M = 5.6
28.	eP A eSKS C eSS C LmV C LmH B	01 45 01 55 30 02 02 00 17.5 18.0	<u>South of Panama</u> 4.04 N 82.50 W H = 01 32 02.0 h = 33 km MB=5.1 MS=5.2 D = 89.52 Az = 39 (NEIS) LmH C 24s 1.3/um M = 5.3 LmV B 24 2.3/um 5.6
28.	eP A	02 04 02.5	<u>Mindanao, Philippine Islands</u> 9.22 N 126.12 E H = 01 50 31.9 h = 63.7km MB = 5.7 D = 97.93 Az = 324 (NEIS) PV A 1.0s 17.7nm M = 5.5
28.	eP A	08 52 47.5	<u>Arabian Sea</u> 14.88 N 54.95 E H = 08 43 55.7 h = 33 km MB=5.1 MS=4.7 D = 49.87 Az = 325 (NEIS) PV A 2.1s 114.9nm M = 5.5
28.	eP A eS B LmH B LmV C	17 44 01.5 51 10 18 09.8 11.3	<u>Arabian Sea</u> 14.81 N 55.01 E H = 17 35 06.5 h = 33 km MB=5.1 MS=4.6 D = 49.96 Az = 325 (NEIS) PV A 2.0s 94.0nm M = 5.5 LmH B 16 0.9/um 4.8 LmV C 18 1.0/um 4.9
28.	eP A	18 02 54	<u>Kurile Islands</u> 44.63 N 146.82 E H = 17 50 54.4 h = 9.7 km MB=5.3 MS=4.7 D = 77.45 Az = 333 (NEIS)

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Day	Phase	h m s	Remarks
1.	e LmV	A 00 49(00) C 01 38.0	<u>Mindanao</u> 6.84 N 123.93 E H = 00 35 01.7 h = 45 km MB = 5.4 D = 98.55 Az = 323 (ISC) LmV C 21s 0.4/um M = 4.9
1.	eP	A 01 55(43)	<u>Mid - Indian Rise</u> 7.16 S 67.94 E H = 01 44 11.7 h = 33 km MB = 4.8 D = 75.23 Az = 327 (NEIS) station clock out of operation
1.	eP	A 20 50 00	<u>Near West Coast of Colombia</u> 6.26 N 77.62 W H = 20 37 25.1 h = 22.7 km MB = 4.9 D = 84.72 Az = 40 (NEIS)
2.	ePKIKP e i	A 05 24 58.5 A 25 05 A 27 14.5	<u>Fiji Islands</u> 16.37 S 177.98 E H = 05 05 23.6 h = 33 km MB = 5.5 MS = 5.1 D = 144.09 Az = 345 (NEIS)
2.	eP eipP ePP eS LmH LmV	AB 10 06 57 A 07 12 B 11 00 B 13 32 B 18 25 B 51.6 B 59.5	<u>Mindanao, Philippine Islands</u> 6.77 N 123.74 E H = 09 53 23.2 h = 51.6 km MB = 6.1 MS = 6.1 D = 98.50 Az = 323 (NEIS) h = 51 km PV A 1.6s 159.0nm M = 6.3 PV B 7 1.2/um 6.5 LmH B 18.5 11.3/um 6.4 LmV B 16.5 6.7/um 6.2
2.	eP LmH LmV	A 23 22 25.5 C 54.0 C 57.5	<u>Off East Coast of Kamchatka</u> 54.69 N 163.66 E H = 23 11 01.8 h = 42 km MB = 5.1 D = 72.46 Az = 342 (NEIS) PV A 1.4s 18.6nm M = 4.9 LmH C 17 0.35/um 4.7 LmV C 18 0.35/um 4.7

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Day	Phase	h m s	Remarks
3.	ePKP	A 12 14 58.5	<u>Fiji Islands Region</u> 18.23 S 176.97 W H = 11 55 59.7 h = 384.4 km MB = 4.8 D = 146.94 Az = 350 (NEIS)
4.	ePKP	A 05 12 59	<u>Samoa Region</u> 16.22 S 172.64 W H = 04 53 22.9 D = 145.39 Az = 355 (ISC) PKPV A 1.1s 28.2nm
4.	eP	A 06 58 59	<u>Sakhalin Island</u> 51.31 N 143.84 E H = 06 47 44.3 h = 33 km MB = 4.8 D = 70.62 Az = 330 (NEIS)
4.	-eiP eiS LmH LmV eP'P'	AB 19 24 32 B 26 56 B 30.0 B 30.0 A 20 01 22	<u>Rumania</u> 45.77 N 26.76 E H = 19 21 54.1 h = 94.1 km MB = 6.4 D = 11.22 Az = 301 (NEIS) PV A 1.2s 1300.0nm M = 6.6 SH B 15 567.0/um 8.6 LmH B 13 656.0/um LmV B 13 397.0/um
5.	e(P)	A 00 03 33.5	<u>Rumania</u> 45.48 N 27.09 E H = 00 00 45.9 h = 104.2 km MB = 4.9 D = 11.56 Az = 302 (NEIS)
5.	ePn ePg eSn eSg	A 13 32 43.5 A 32 58 A 33 46 A 34 06	<u>Switzerland</u> 46.54 N 7.33 E H = 13 31 25.1 h = 33 km D = 4.99 Az = 33 (NEIS)
5.	ePKHKP ePKP2	A 16 33 55 A 34 05	<u>South of Fiji Islands</u> 23.30 S 178.80 E H = 16 15 07.3 h = 596.7 km MB = 5.1 D = 150.93 Az = 343 (NEIS) PKHKPV A 1.2s 30.5nm
6.	LmH LmV	B 14 01.7 B 02.2	<u>Flòres Island Region</u> 8.30 S 123.60 E H = 12 47 18.3 h = 39.1 km MB = 5.2 MS = 5.7 (NEIS) D = 110.3

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Day	Phase	h m s	Remarks
cont. 6.			LmH B 18s 0.8/um M = 5.3 LmV B 17 0.8/um 5.4
7.	eP eS LmH LmV	A 00 39 53.5 C 49 00 B 01 07.7 B 13.9	<u>Northeastern China</u> 39.98 N 118.69 E H = 00 28 47.4 h = 33 km MP=5.3 MS=5.0 D = 69.52 Az = 319 (NEIS) PV A 2.0s 102.8nm M = 5.5 LmH B 18 18.6/um 6.4 LmV B 14 4.8/um 6.0
7.	iPn eiPg eSn eiSg	AB 08 18 52.0 A 18 57 A 19 16 A 19 25	<u>Limburg, Fed. Rep. of Germany</u> 50.28 N 8.17 E H = 08 18 17.0 h = 33 km D = 2.23 Az = 79 (NEIS)
7.	eP LmV LmH	A 09 24 28 C 55.5 C 55.9	<u>Hokkaido, Japan Region</u> 43.10 N 145.77 E H = 09 12 28.1 h = 24.1 km MB = 5.4 D = 78.45 Az = 332 (NEIS) PV A 2.2s 76.4nm M = 5.3 LmH C 24.5 0.9/um 5.0 LmV C 32 0.6/um 4.8
7.	eP LmV LmH	A 10 49 15 B 11 15.0 B 17.5	<u>Central Mid-Atlantic Ridge</u> 7.43 N 35.99 W H = 10 39 20.9 h = 33 km MB = 4.9 D = 58.34 Az = 34 (NEIS) LmH B 16s 0.35/um M = 4.6 LmV B 19 0.6/um 4.8
7.	eP LmV LmH	A 14 01 20 C 50.0 C 50.2	<u>Celebes Sea</u> 1.99 N 123.05 E H = 13 47 31.0 h = 58 km MB = 5.4 D = 101.88 Az = 323 (NEIS) LmH C 21s 0.7/um LmV C 20 0.6/um
8.	eP	A 03 05 51	<u>Dodecanese Islands</u> 36.54 N 28.44 E H = 03 01 36.7 h = 63.4 km MB = 4.1 D = 18.57 Az = 325 (NEIS) PV A 1.4s 41.9nm M = 4.5

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Day	Phase	h m s	Remarks
8.	ePKP epPKP	A 03 21 11.5 A 23 18	<u>Fiji Islands Region</u> 17.84 S 178.71 W H = 03 02 32.8 h = 570.8 km MB = 5.3 D = 146.24 Az = 348 (NEIS) h = 547 km PKPV A 1.4s 32.6nm pPKP traces
8.	LmH LmV	B 09 29.0 B 29.3	<u>Solomon Islands</u> 8.41 S 156.35 E H = 08 07 19.9 h = 33 km MB = 5.6 (ISC) D = 128.8 LmH B 17s 1.1/um M = 5.6 LmV B 14 1.4/um 5.8
8.	eP LmH LmV	A 13 22 23.5 B 14 04.6 B 09.4	<u>Peru</u> 11.96 S 74.20 W H = 13 08 56.3 h = 40.6 km MB=5.6 MS=5.6 D = 96.51 Az = 40 (NEIS) PV A 2.0s 77.0nm M = 5.9 LmH B 20 1.3/um 5.4 LmV B 17 1.7/um 5.6
8.	e(PP)	A 15 38 31	<u>Tadzhikistan</u> 38.00 N 69.52 E H = 15 28 46.7 h = 10 km MB = 4.7 (ISC) D = 42.3
8.	ePn eSn	A 19 20 36 A 22 19	<u>Yugoslavia</u> 43.32 N 21.00 E H = 19 18 12.8 h = 34.5 km MB = 4.8 D = 9.73 Az = 322 (NEIS)
8.	eP	A 22 59 35	<u>Peru</u> 12.06 S 74.03 W H = 22 46 04.8 h = 14 km MB=5.6 MS=5.4 D = 96.47 Az = 40 (NEIS) PV A 1.2s 16.3nm M = 5.4
8.	eP eS eSS eSSS LmH LmV	AB 23 30 21 C 41 05 C 46 40 C 50 24 B 24 25.4 B 28.1	<u>Northern Sumatra</u> 0.45 N 100.02 E H = 23 17 28.0 h = 21.6 km MB=5.5 MS=6.0 D = 88.64 Az = 320 (NEIS) PV A 1.6s 82.5nm M = 5.8 LmH B 15.5 4.2/um 6.0 LmV B 16 3.7/um 5.9

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Day	Phase	h m s	Remarks
9.	ePn	A 00 11 54	<u>Austria</u> 46.3 N 13.2 E
	ePg	A 12 13.5	H = 00 10.44 h = 0 km
	eSn	A 12 45	D = 4.49 Az = 347 (ISC)
	eSg	A 13 07.5	
9.	eP	A 04 11 23	<u>Kurile Islands</u> 46.43 N 153.87 E H = 03 59 27.2 h = 30 km MB = 5.2 D = 77.96 Az = 337 (NEIS) PV A 1.2s 30.5nm M = 5.2
9.	eP	A 04 26 55	<u>Kurile Islands Region</u> 46.08 N 154.06 E H = 04 14 58.6 h = 38 km MB = 5.0 D = 78.32 Az = 337 (NEIS) PV A 1.2s 24.4nm M = 5.1
9.	e(pFKP)	A 04 55 27.5	<u>Loyalty Islands Region</u> 21.00 S 169.74 E H = 04 35 22.5 h = 103 km (ISC) D = 145.8
9.	eP	A 06 18 20.5	<u>Fox Islands, Aleutian Is.</u>
	e	A 18 32	52.76 N 167.79 W H = 06 06 30.4 h = 33 km MB = 4.7 D = 76.97 Az = 0 (NEIS) PV A 1.2s 16.3nm M = 4.9
9.	eP	A 06 42 25	<u>Eastern Sea of Japan</u> 41.21 N 138.22 E H = 06 30 32.2 h = 33 km MB = 5.0 D = 77.31 Az = 328 (NEIS)
9.	-1P	AB 14 38 36	<u>North Korea</u> 41.61 N 130.88 E
	ipP	AB 40 34	H = 14 27 53.6 h = 528 km MB = 5.9
	1PP	B 41 28	D = 73.94 Az = 325 (NEIS)
	ipPP	B 43 17	h = 588 km
	1S	B 47 20	PV A 1.6s 1153.0nm M = 6.1
	1SP	B 47 44	PV B 9 10.9/um 6.3
	i	B 47 50	pPV B 9 6.8/um
	1SS	B 51 52	PPV B 9 5.3/um 6.5
	eP'P'	A 15 05 37	SH B 13 31.9/um 6.9
	eSKPP'	A 08 38	SKPP'V A 2.2 251.0nm

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Day	Phase	h m s	Remarks
cont. 9.	LmH	B 15 13.0	LmH B 15s 15.1/um
	LmV	B 15.2	LmV B 14 16.1/um
9.	LmH	C 24 00.0	<u>Molucca Passage</u> 2.59 N 127.17 E
	LmV	C 07.0	H = 23 01 15.9 h = 59.3 km MB = 5.5 D = 103.87 Az = 324 (NEIS) LmV C 24s 0.5/um
10.	ePg	A 02 03 16.5	<u>Northern Italy</u> 45.77 N 9.81 E
	eSn	A 03 52	H = 02 01 45.4 h = 33 km
	eSg	A 04 24	D = 5.03 Az = 13 (NEIS)
10.	eP	A 17 49 45	<u>Caribbean Sea</u> 17.89 N 81.95 W H = 17 37 44.8 h = 33 km MB = 4.9 D = 78.59 Az = 40 (NEIS) PV A 1.4s 18.6nm M = 4.9
	eP	A 07 10 45.5	<u>Philippine Islands Region</u>
11.	LmH	C 53.3	19.14 N 121.24 E
	LmV	C 55.2	H = 06 58 02.3 h = 41.7 km MB=5.4 (NEIS) D = 87.2 LmH C 19s 2.6/um M = 5.7 LmV C 19 2.3/um 5.6
12.	eP	AB 03 06 51.5	<u>North Atlantic Ridge</u> 23.74 N 45.17 W
	eS	B 14 15	H = 02 57 50.6 h = 33 km MB=5.4 MS=5.6
	LmH	B 24.5	D = 51.08 Az = 43 (NEIS)
	LmV	B 25.2	PV A 1.7s 91.0nm M = 5.5 SH B 16 3.2/um 6.0 LmH B 17.5 6.0/um 5.7 LmV B 18.5 7.1/um 5.8
12.	LmH	C 08 54.0	<u>Off Coast of Jalisco, Mexico</u>
	LmV	C 09 01.0	18.81 N 107.13 W H = 08 09 11 h = 24 km MB = 4.9 (ISC) D = 92.5 LmH C 33s 0.45/um M = 4.7 LmV C 21 0.4/um 4.9

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Day	Phase	h m s	Remarks
13.	ePKP	A 03 54 06.5	<u>Tonga Islands</u> 16.52 S 173.27 W H = 03 34 29.0 h = 33 km MB = 4.7 D = 145.73 Az = 354 (NEIS)
13.	LmH LmV	C 15 35.5 C 35.5	LmH C 23s 0.4/um LmV C 25 0.35/um
13.	eP eSKS eS e esS eSS esSS	A 21 27 34 C 37 55 C 38 20 C 38 50 C 39 30 C 44 50 C 45 35	<u>Peru - Brazil Border Region</u> 8.04 S 74.41 W H = 21 14 32.2 h = 161 km MB = 5.1 D = 93.63 Az = 40 (NEIS) PV A 2.2s 87.2nm M = 5.6
14.	ePKIKP -eiPKHKP ePKP2	A 19 21 47 A 21 52 A 21 58.5	<u>Fiji Islands Region</u> 20.73 S 178.51 W H = 19 03 07.8 h = 577.4 km MB = 5.4 D = 149.10 Az = 347 (NEIS) PKIKPV A 0.7s 26.8nm PKHKPV A 1.5 241.2nm PKP2V A 1.2 77.2nm
14.	eP	A 20 55 01	<u>Jan Mayen Island Region</u> 71.97 N 0.99 W H = 20 50 04.2 h = 33 km MB = 4.5 D = 22.13 Az = 158 (NEIS) PV A 1.5s 33.0nm M = 4.5
14.	ePKP2	A 21 12 30	<u>Kermadec Islands Region</u> 31.01 S 179.94 E H = 20 52 38.2 h = 368 km MB = 5.0 (NEIS) D = 158.7 PKP2V A 1.6s 44.0nm
15.	eP LmH LmV	A 01 11 38.5 C 37.5 C 41.5	<u>Tibet</u> 31.35 N 89.34 E H = 01 01 39.9 h = 33 km MB = 4.7 (NEIS) D = 58.9 PV A 2.0s 42.7nm M = 5.2 LmH C 22 1.0/um 4.9 LmV C 19 0.6/um 4.8

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Day	Phase	h m s	Remarks
15.	ePn eSg	A 02 03 30 A 05 37	<u>Yugoslavia</u> 42.1 N 19.2 E H = 02 00 06 h = 10 km D = 10.05 Az = 331 (ISC)
15.	ePKP	A 04 31 22.5	<u>Tonga Islands</u> 15.18 S 173.21 W H = 04 11 51.2 h = 32 km MB=4.9 MS=5.3 D = 144.41 Az = 355 (NEIS)
15.	ePKIKP ePP eSP ePSS eSS eSSS LmV LmH	A 09 13 32 A 14 13 C 23 35 C 24 40 C 30 15 C 34 00 C 10 00.8 C 03.3	<u>Banda Sea</u> 4.95 S 131.01 E H = 08 54 58.8 h = 40.7 km MB = 5.8 MS = 5.6 (NEIS) D = 112.2 LmH C 24s 1.8/um M = 5.6 LmV C 28 2.0/um 5.5
15.	ePKIKP LmH LmV	A 20 14 45 B 21 02.5 B 17.5	<u>Solomon Islands</u> 6.73 S 154.96 E H = 19 55 42.6 h = 31 km MB = 5.5 MS = 5.8 (NEIS) D = 126.6 LmH B 22s 1.1/um M = 5.5 LmV B 20 1.2/um 5.6
16.	eP	A 06 33 52.5	<u>Alaska Peninsula</u> 55.49 N 157.04 W H = 06 22 17.7 h = 18 km MB = 5.1 MS = 3.9 (NEIS) D = 73.8 PV A 1.0s 17.7nm M = 5.1
16.	eP	A 13 06 51.5	<u>Tibet</u> 31.26 N 89.41 E H = 12 56 52.0 h = 33 km MB = 4.8 (NEIS) D = 59.2 PV A 1.8s 27.0nm M = 5.0
16.	ePKHKP	A 18 00 17	<u>Fiji Islands Region</u> 20.88 S 178.94 W H = 17 41 35.3 h = 620.9 km MB = 4.7 D = 149.15 Az = 347 (NEIS)

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Day	Phase	h m s	Remarks
16.	eP	A 24 06 08	<u>Yunnan Province, China</u> 25.80 N 99.51 E H = 23 55 01.6 h = 33 km MB = 5.1 MS = 4.7 (NEIS) D = 69.2 PV A 1.4s 23.3nm M = 5.1
16.	eP LmH LmV	A 24 08 42.5 B 36.9 B 41.6	<u>Yunnan Province, China</u> 25.61 N 99.99 E H = 23 57 34.0 h = 33 km MB = 5.0 D = 69.65 Az = 317 (NEIS) LmH B 20s 1.5/um M = 5.2
17.	ePn iSg	A 04 41 29 A 42 08	<u>Poland</u> (CLL) D = 2.5
17.	eSg	A 17 57 55	<u>Hungary</u> 46.99 N 18.10 E H = 17 54 47.7 h = 0 km (ISC) D = 5.6
18.	eiP iPP iS iPS iSS ePKKP eP'P' LmH LmV	AB 21 56 48 B 22 00 20 B 07 40 B 08 52 B 13 48 A 14 28 A 22 32 B 32.8 B 43.4	<u>Luzon, Philippine Islands</u> 16.77 N 122.33 E H = 21 43 52.4 h = 37 km MB=6.2 MS=7.0 D = 89.69 Az = 323 (NEIS) PV A 1.5s 462.3nm M = 6.6 PV B 12 13.3/um 7.1 SH B 18 29.0/um 7.2 LmH B 25 252.0/um 7.6 LmV B 16.5 204.0/um 7.7
18.	eP	A 24 10 35.5	<u>Luzon, Philippine Islands</u> 16.76 N 122.52 E H = 23 57 38.1 h = 33 km MB = 5.3 D = 89.81 Az = 324 (NEIS) PV A 1.7s 36.4nm M = 5.4
19.	eP epP	A 00 54 05 A 54 28	<u>Luzon, Philippine Islands</u> 16.83 N 122.45 E H = 00 41 08.7 h = 33 km MB = 5.2 D = 89.71 Az = 323 (NEIS) h = 87 km PV A 1.4s 27.9nm M = 5.4

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Day	Phase	h m s	Remarks
19.	eP	A 02 06 12	<u>Luzon, Philippine Islands</u> 17.14 N 122.43 E H = 01 53 19.2 h = 49 km MB = 5.3 (NEIS) D = 89.5 PV A 1.4s 37.2nm M = 5.5
19.	eP	A 03 15 38	<u>Luzon, Philippine Islands</u> 17.14 N 122.51 E H = 03 02 42.6 h = 34 km MB = 5.1 (NEIS) D = 89.5
19.	e(pP) LmH LmV	A 08 35 31.5 B 09 22.0 B 22.0	<u>Luzon, Philippine Islands</u> 16.75 N 122.39 E H = 08 22 18.8 h = 63 km MB = 5.1 D = 89.74 Az = 232 (ISC) LmH B 13s 0.3/um LmV B 13 0.35/um
19.	eP	A 08 43 29	<u>Greenland Sea</u> 76.1 N 4.8 E H = 08 38 01 h = 33 km MB = 4.4 D = 25.74 Az = 170 (ISC) PV A 1.6s 22.0nm M = 4.5
19.	ePKP	A 09 42 05	<u>Tonga Islands</u> 17.72 S 174.68 W H = 09 22 42.4 h = 176 km MB = 5.1 (NEIS) D = 146.7 PKPV A 2.0s 59.8nm
19.	+iP LmV LmH	AB 11 08 18.3 B 47.2 B 47.3	<u>Kurile Islands</u> 44.20 N 148.20 E H = 10 56 25.1 h = 70 km MB = 6.0 D = 78.28 Az = 333 (NEIS) PV A 1.5s 754.0nm M = 6.4 PV B 4 1.8/um 6.3 LmH B 18 1.5/um LmV B 19 1.9/um

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Day	Phase	h m s	Remarks
19.	eP	A 12 30 01	<u>Luzon, Philippine Islands</u> 16.61 N 122.42 E H = 12 17 03.6 h = 33 km MB=5.4 MS=4.5 D = 89.87 Az = 323 (NEIS) PV A 1.4s 18.6nm M = 5.2 LmH B 16 0.8/um 5.3 LmV B 17 1.5/um 5.5
	LmH	B 13 15.0	
	LmV	B 16.3	
19.	eP	A 13 09 02	<u>Luzon, Philippine Islands</u> 16.65 N 122.46 E H = 12 56 03.7 h = 33 km MB=5.3 MS=5.1 D = 89.86 Az = 323 (NEIS) PV A 1.3s 26.2nm M = 5.3 LmH B 17.5 1.6/um 5.5 LmV B 16 1.7/um 5.6
	LmH	B 47.3	
	LmV	B 55.9	
19.	eP	A 13 40 07	<u>Luzon, Philippine Islands</u> 16.70 N 122.49 E H = 13 27 09.4 h = 42 km MB = 5.2 D = 89.84 Az = 323 (ISC) PV A 1.6s 22.0nm M = 5.3
19.	ePKHKP	A 16 30 57	<u>Fiji Region</u> 20.39 S 177.79 W H = 16.12 09.7 h = 550 km D = 148.91 Az = 348 (ISC)
19.	ePKP	A 19 22 06.5	<u>New Hebrides Islands</u> 19.02 S 169.25 E H = 19 02 54.1 h = 182 km MB = 4.4 (NEIS) D = 143.8 PKPV A 1.4s 23.2nm
19.	eP	AB 19 48 03	<u>Luzon, Philippine Islands</u> 16.81 N 122.35 E H = 19 35 08.0 h = 39 km MB=5.6 MS=5.8 D = 89.67 Az = 323 (NEIS) PV A 2.0s 128.0nm M = 5.9 PV B 8 1.2/um 6.3 LmH B 16 8.4/um 6.3 LmV B 16 10.4/um 6.4
	ePP	C 51 30	
	eS	C 58 45	
	LmH	B 20 34.4	
	LmV	B 34.4	

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Day	Phase	h m s	Remarks
19.	ePKP	A 23 20 32.5	<u>Tuamotu Archipelago Region</u> 21.93 S 138.96 W H = 23 00 58.2 h = 0 km MB=5.9 MS=5.5 D = 143.25 Az = 32 (NEIS) PKPV A 1.1s 48.4nm
20.	e	A 07 44 05.5	<u>Yugoslavia</u> 43.36 N 18.65 E H = 07 41 38.1 h = 33 km MB = 4.7 D = 8.73 Az = 329 (NEIS)
	eSn	A 45 21	
20.	LmV	B 12 01.3	<u>Luzon, Philippine Islands</u> 16.65 N 122.52 E H = 11 01 59 h = 35 km MB = 4.9 (ISC) D = 89.8 LmH B 15s 0.2/um M = 4.6 LmV B 16 0.3/um 4.8
	LmH	B 01.8	
20.	eP	A 23 04 10	<u>Greenland Sea</u> 79.09 N 3.11 E H = 22 58 10.7 h = 10 km MB = 4.5 (NEIS) D = 28.7
21.	ePn	A 01 27 27	<u>Austria</u> 46.4 N 13.2 E H = 01 26 25 h = 33 km D = 4.41 Az = 346 (ISC)
	ePg	A 27 42	
	e(Sg)	A 28 37	
21.	ePP	A 04 54 26	<u>Mariana Islands</u> 13.16 N 145.31 E H = 04 36 00.6 h = 56 km MB = 5.4 (NEIS) D = 104.7 LmH C 24s 0.8/um LmV C 24 0.5/um
	LmH	C 05 31.6	
	LmV	C 35.5	
21.	eP	A 07 43 29	<u>Afghanistan - USSR Border Region</u> 36.47 N 71.37 E H = 07 35 28.0 h = 123 km MB = 4.9 (NEIS) D = 44.5 PV A 1.6s 22.0nm M = 4.6 LmH B 17 1.9/um 5.1 LmV B 18.5 2.9/um 5.4
	LmH	B 08 03.8	
	LmV	B 03.8	

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Day	Phase	h m s	Remarks
21.	eSb A	19 39 50	<u>Central Italy</u> 43.0 N 14.0 E H = 19 35 52 h = 33 km (ISC) D = 7.85
	eSg A	40 14	
21.	+iP ABC	21 26 35.2	<u>Southern Iran</u> 27.61 N 56.39 E H = 21 18 54.2 h = 29.2 km MB=6.2 MS=6.9 D = 40.84 Az = 317 (NEIS)
	ePP BC	28 10	
	eS BC	32 40	
	eSS BC	35 20	PV A 2.2s 840.0nm M = 6.1
	LmH C	39.0	LmH C 20.5 370.0/um 7.2
	LmV C	46.5	LmV C 18 64.0/um 6.5
21.	eP A	21 40 58.5	<u>Southern Iran</u> 27.50 N 56.36 E H = 21 33 18.2 h = 33 km MB = 5.1 D = 40.90 Az = 317 (NEIS)
21.	eP A	21 49 08	<u>Southern Iran</u> 27.24 N 56.77 E H = 21 41 23.8 h = 33 km MB = 4.7 D = 41.34 Az = 317 (NEIS)
21.	eP A	21 59 25	<u>Southern Iran</u> 27.62 N 56.36 E H = 21 51 39.3 h = 33 km MB = 4.9 D = 40.81 Az = 317 (NEIS)
21.	+eP A	22 49 46.5	<u>Southern Iran</u> 27.60 N 56.52 E H = 22 42 06.5 h = 36.5 km MB = 5.8 D = 40.92 Az = 317 (NEIS) PV A 1.5s 90.5nm M = 5.3
22.	eP A	01 44 46.5	<u>Southern Iran</u> 27.51 N 56.25 E H = 01 37 09.1 h = 55.8 km MB = 4.7 D = 40.82 Az = 317 (NEIS) traces
22.	eP A	02 33 38	<u>Southern Iran</u> 27.53 N 56.32 E H = 02 25 58.8 h = 43 km MB = 5.2 (NEIS) D = 40.8 PV A 1.2s 20.3nm M = 4.7

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Day	Phase	h m s	Remarks
22.	ePKIKP A	02 42 38	<u>South of Kermadec Islands</u> 33.60 S 179.10 E H = 02 23 17.8 h = 336 km MB = 5.6 D = 160.65 Az = 335 (NEIS) PKIKPV A 2.3s 146.0nm PKP2V A 1.8 135.0nm
	ePKP2 A	43 22	
	e(pPKP) A	44 05	
22.	LmH B	03 27.5	<u>Southern Iran</u> 27.54 N 56.47 E H = 03 18 26.1 h = 33 km MB = 4.4 (NEIS) D = 41.6 LmH B 17s 1.1/um M = 4.8 LmV B 17 2.3/um 5.2
	LmV B	31.0	
22.	eP A	04 22 29	<u>South Atlantic Ridge</u> 12.52 S 14.72 W H = 04 11 37.7 h = 33 km MB=5.1 MS=4.7 D = 66.98 Az = 18 (NEIS) h = 27 km PV A 2.0s. 59.8nm M = 5.3
	epP A	22 36	
22.	e(PP) A	06 42 18	<u>Crete</u> 34.48 N 26.18 E H = 06 37 47.9 h = 33 km (NEIS) D = 19.2
22.	eP A	09 22 21	<u>Southern Iran</u> 27.59 N 56.55 E H = 09 14 39.7 h = 33 km MB=5.0 MS=5.2 D = 40.95 Az = 317 (NEIS) LmH B 23s 5.2/um M = 4.6 LmV B 14 1.7/um 5.2
	LmH B	40.0	
	LmV B	48.2	
22.	eP A	12 05 11	<u>Southern Iran</u> 27.58 N 56.47 E H = 11 57 30.9 h = 39.1 km MB=5.7 MS=5.9 D = 40.91 Az = 317 (NEIS) PV A 1.2s 4.0nm M = 5.7 LmH B 20 14.1/um 5.8 LmV B 13.5 9.4/um 5.9
	ePP B	06 44	
	eS B	11 10	
	eSS B	14 00	
	eSSS B	14 45	
	LmH B	22.6	
	LmV E	28.4	

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Day	Phase	h m s	Remarks
22.	eP A	12 40 35.5	<u>Southern Iran</u> 27.58 N 56.59 E H = 12 32 57.3 h = 61.5 km MB = 4.8 D = 40.98 Az = 317 (NEIS) PV A 1.4s 11.6nm M = 4.4
22.	eP A	21 38 42	<u>Southern Iran</u> 27.71 N 56.37 E H = 21 31 02.6 h = 33 km MB = 4.8 D = 40.75 Az = 317 (NEIS)
22.	ePKHKP A	24 05 48	<u>Fiji Islands Region</u> 20.22 S 178.01 W H = 23 47 02.4 h = 567.4 km MB = 4.7 D = 148.70 Az = 348 (NEIS) PKHKPV A 1.4s 18.6nm
23.	e A	00 25 38	<u>Southern Iran</u> 27.56 N 56.38 E H = 00 17 50.8 h = 33 km MB = 4.9 (NEIS) D = 40.8 traces
23.	eP A eS C LmH C	02 23 14.5 33 30 42.5	<u>Northern Colombia</u> 6.79 N 73.05 W H = 02 11 14.6 h = 164.0 km MB = 5.5 D = 81.41 Az = 40 (NEIS)
23.	eP A epP A	03 58 01 58 11	<u>Kurile Islands</u> 43.36 N 146.89 E H = 03 46 01.3 h = 36 km MB = 5.3 MS = 4.6 D = 78.60 Az = 333 (NEIS) h = 37 km PV A 1.0s 27.6nm M = 5.2
23.	e A	05 20 26	<u>Fiji Islands Region</u> 14.80 S 178.16 W H = 05 00 41.0 h = 33 km MB = 5.0 MS = 5.1 D = 143.38 Az = 350 (NEIS)
23.	ePKP A eX A ePS BC ePFS BC eSS B eSSS B	07 38 44 38 50 52 40 54 35 08 00 35 05 50	<u>Fiji Islands</u> 14.47 S 177.95 W H = 07 19 11.1 h = 33 km MB = 5.5 MS = 6.3 (NEIS) D = 143.1 eXV A 2.0s 68.4nm LmH B 22 5.2/um M = 6.2

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Day	Phase	h m s	Remarks
cont. 23.	LmH ⁺ B LmV B	08 39.5 48.6	LmV B 19s 5.3/um M = 6.3
23.	eP A	07 54 37	<u>Southern Iran</u> 27.65 N 56.45 E H = 07 46 59.4 h = 54.3 MB = 5.0 MS = 5.5 (NEIS) D = 40.8
23.	ePKP ABC eSS BC eSSP BC LmH B LmV B	17 29 56.5 51 40 52 25 18 33.2 39.6	<u>Fiji Islands Region</u> 14.43 S 177.96 W H = 17 10 19.50 h = 1.5 km MB = 5.6 MS = 6.0 (NEIS) D = 143.0 PKPV A 1.9s 37.9nm LmH B 18 2.1/um M = 5.9 LmV B 19.5 3.5/um 6.1
23.	ePcP A	18 05 39	<u>Off Coast of Hokkaido, Japan</u> 42.11 N 147.76 E H = 17 53 22.4 h = 33 km MB = 4.6 (NEIS) D = 80.0
23.	ePKP A	19 17 08	<u>Tonga Islands</u> 15.01 S 173.25 W H = 18 57 36.6 h = 33 km MB = 5.1 (NEIS) D = 144.2
23.	eP A	20 48 37.5	<u>Southern Iran</u> 27.52 N 56.48 E H = 20 40 57.9 h = 41.7 km MB = 4.9 (NEIS) D = 41.0 PV A 1.3s 13.1nm M = 4.5
23.	+iP ABC ePP B eS BC eSS B eSSS B eSSSS BC LmH B LmV B	23 58 57.0 00 30 24 05 00 07 45 08 15 09 04 16.4 24.3	<u>Southern Iran</u> 27.62 N 56.59 E H = 23 51 15.8 h = 34.8 km MB = 5.8 MS = 5.4 (NEIS) D = 41.0 PV A 1.6s 104.3nm M = 5.3 LmH B 20.5 3.1/um 5.2 LmV B 12 1.8/um 5.2

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Day	Phase	h m s	Remarks
24.	eP A	00 12 31	<u>Southern Iran</u> 27.84 N 56.57 E H = 00 04 50.7 h = 33 km MB = 4.8 (NEIS) D = 40.8 traces
24.	eP A	00 21 32	<u>Southern Iran</u> 27.58 N 56.46 E H = 00 13 52.3 h = 44.7 km MB=5.1 (NEIS) D = 40.8 PV A 1.6s 27.5nm M = 4.8
24.	eP A	04 50 05	<u>Southern Iran</u> 27.62 N 56.63 E H = 04 42 24.3 h = 32.3 km MB=5.3 (NEIS) D = 41.0 LmH C 05 07.1 LmV C 10.9 PV A 1.3s 30.6nm M = 4.9 LmH C 24 0.7/um 4.4 LmV C 24 0.5/um 4.4
24.	ePn ABC	07 33 13.5	<u>Poland</u> 51.32 N 15.77 E H = 07 32 30.5 h = 33 km MB=5.0 MS=3.5 D = 2.71 Az = 257 (NEIS) PV A 1.1s 109.0nm
	ePg A	33 22	
	e A	33 35	
	iSn A	33 45	
	iSg A	33 56	
24.	eP A	07 40 04	<u>South of Panama</u> 3.16 N 78.48 W H = 07 27 17.2 h = 24.0 km MB = 5.2 (NEIS) D = 87.6 PV A 1.6s 60.5nm M = 5.7
24.	eP A	09 30 17.5	<u>Iceland</u> 63.57 N 19.17 W H = 09 25 33.9 h = 10 km MB = 4.6 (NEIS) D = 20.9 PV A 1.4s 18.6nm M = 4.3
24.	eP A	19 46 39	<u>Luzon, Philippine Islands</u> 16.73 N 122.56 E H = 19 33 33.0 h = 33 km MB = 5.1 (NEIS) D = 89.8 PV A traces LmH C 16s 0.4/um M = 5.0 LmV C 16 0.4/um 5.0

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Day	Phase	h m s	Remarks
25.	eP A	02 45 08	<u>Turkey</u> 38.56 N 40.02 E H = 02 39 58.2 h = 21.5 km MB = 5.2 MS = 4.9 (NEIS) D = 23.4 LmV B 56.8 LmH B 56.9 PV A 1.0s 19.7nm M = 4.6 XV A 1.7 66.7nm SH B 12 2.6/um 5.5 LmH B 16 3.3/um 4.9 LmV B 15.5 2.6/um 4.9
	eX A	45 13	
	eS BC	49 20	
	eSS BC	49 50	
25.	eP A	13 50 39	<u>Kenai Peninsula, Alaska</u> 60.84 N 148.14 W H = 13 39 45.2 h = 55.5 km MB = 4.6 (NEIS) D = 67.5 PV A 1.2s 16.3nm M = 5.0
25.	eP A	17 51 22	<u>Iran - USSR Border Region</u> 37.20 N 59.37 E H = 17 44 19.6 h = 22 km (NEIS) D = 36.3
25.	eP A	23 03 02	<u>Southern Iran</u> 27.77 N 56.63 E H = 22 55 23.7 h = 55.7 km MB = 4.9 (NEIS) D = 40.8
26.	e(P) A	00 37 37.5	<u>North Atlantic Ridge</u> 52.04 N 30.24 W H = 00 32 04.6 h = 33 km MB = 4.5 (NEIS) D = 26.0
26.	+iP ABC	04 48 08	<u>Fox Islands, Aleutian Is.</u> 52.30 N 168.26 W H = 04 36 14.7 h = 38 km MB = 5.7 MS = 6.0 (NEIS) D = 77.4 h = 41 km PV A 1.2s 289.0nm M = 6.2 PV B 8 2.5/um 6.3 SH B 15 2.2/um 6.0 LmH B 16 6.3/um 6.0 LmV B 16 5.0/um 6.0
	ipP A	48 19	
	e B	48 36	
	eS BC	58 00	
	LmH B	05 33.1	
	LmV B	33.4	

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Day	Phase	h m s	Remarks
26.	eP A	05 09 57	<u>Turkey</u> 39.33 N 43.42 E H = 05 04 35.2 h = 21 km MB = 5.0 (NEIS) D = 25.0
26.	eP A	05 52 23	<u>Southern Greece</u> 37.81 N 23.24 E H = 05 48 44.0 h = 37 km MB = 4.7 (NEIS) D = 15.3
26.	ePKIKP A	08 38 51.5	<u>Tonga Islands</u> 18.59 S 174.15 W H = 08 19 18.5 h = 93 km MB = 5.6 (NEIS) D = 147.8
	iPKHKP A	38 54	PKHKPV A 1.5s 211.0nm
	ePKP2 A	38 59	
	epPKP A	39 18	
26.	ePKHKP A	19 16 23.5	<u>South of Fiji Islands</u> 24.09 S 179.24 W H = 18 57 11.7 h = 396.5 km MB = 4.6 (NEIS) D = 152.2
	ePKP2 A	16 34	PKHKPV A 1.4s 18.5nm PKP2V A 1.4 16.3nm
26.	eP AB	22 36 29	<u>North of Ascension Island</u> 0.98 S 13.48 W H = 22 26 54.7 h = 33 km MB = 5.3 MS = 5.3 (NEIS) D = 55.7 h = 25 km
	epP A	36 34	PV A 1.4s 65.1nm M = 5.5
	ePa B	39 48	Pa, Sa traces
	eS BC	44 20	LmH B 16s 2.6/um 5.4
	eSa BC	49 40	LmV B 18 3.2/um 5.5
	LmV B	23 01.5	
	LmH B	01.8	
27.	eP A	05 45 53	<u>Kashmir - Tibet Border Region</u> 32.71 N 78.55 E H = 05 36 49.2 h = 25.9 km MB = 5.0 (NEIS) D = 51.3
27.	ePKHKP A	07 44 36	<u>South of Fiji Islands</u> 23.78 S 179.83 W H = 07 25 33.2 h = 441 km MB = 4.5 (NEIS) D = 152.0
	ePKP2 A	44 47.5	

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Day	Phase	h m s	Remarks
28.	ePKIKP A	01 34 58	<u>New Hebrides Islands</u> 14.68 S 167.10 E H = 01 15 41.8 h = 109 km MB = 5.7 (NEIS) D = 139.0
	epPP B	38 16	PKIKPV A 1.6s 41.3nm
	eSKP A	38 22	LmH C 28 0.6/um
	e A	38 33	LmV C 24 0.8/um
	epPKS A	38 53	
	LmH C	02 32.4	
	LmV C	37.9	
28.	eSn A	08 21 18	<u>Albania</u> 41.79 N 20.14 E H = 08 16 43.0 h = 10 km D = 10.64 Az = 329 (NEIS)
28.	ePKP2 A	08 23 48	<u>South of Fiji</u> 23.88 S 179.76 W H = 08 04 41.3 h = 533 km MB = 5.1 D = 151.85 Az = 345 (ISC) PKP2V A 1.6s 27.5nm
28.	eP A	10 54 29	<u>Dodecanese Islands</u> 36.80 N 27.51 E H = 10 50 18.0 h = 23.9 km MB = 4.8 (NEIS) D = 17.9
	eS C	57 50	PV A 1.6s 60.4nm M = 4.5
	LmH B	11 02.0	LmH B 12 1.2/um 4.4
	LmV B	02.0	LmV B 12 1.3/um 4.6
28.	e(P) A	13 07 39.5	<u>North Atlantic Ridge</u> 34.63 N 36.69 W H = 13 00 15.9 h = 33 km MB=4.8 MS=4.5 D = 38.24 Az = 50 (NEIS) LmH B 16s 0.6/um M = 4.5 LmV B 16 0.8/um 4.7
	LmH B	21.5	
	LmV B	21.5	
29.	+eP A	04 04 46.0	<u>Eastern Kazakh SSR</u> 49.79 N 78.15 E H = 03 56 57.7 h = 0 km MB = 5.4 (NEIS) D = 41.2
	ePn A	06 18	Underground explosion (UPP) PV A 0.8s 38.4nm M = 5.2
29.	ePKHKP A	18 02 10.5	<u>Fiji Islands Region</u> 20.33 S 178.28 W H = 17 43 23.5 h = 543 km MB = 5.0 (NEIS) D = 148.7
	ePKP2 A	02 16	PKHKPV A 1.6s 55.0nm

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Day	Phase	h m s	Remarks
29.	eP A	22 36 57	<u>Southern Iran</u> 27.60 N 56.41 E
	LmH C	54.2	H = 22 29 16.8 h = 35 km
	LmV C	56.8	MB = 5.2 MS = 4.9 (NEIS) D = 41.0 PV A 1.6s 27.5nm M = 4.7 LmH C 20 0.5/um 4.4 LmV C 20 0.4/um 4.4
30.	eP ABC	11 33 18	<u>South of Honshu, Japan</u> 31.46 N 140.19 E
	ePP AB	36 39.5	H = 11 20 35.7 h = 32.8 km MB=5.3 MS=5.3
	eS BC	44 00	D = 86.49 Az = 330 (NEIS)
	ePS BC	44 40	PV A 1.6s 55.0nm M = 5.5
	LmH B	12 17.5	PPV A 2.2 87.2nm 5.8
	LmV B	18.8	LmH B 12.5 1.6/um 5.6 LmV B 13 2.1/um 5.8
30.	ePn A	17 44 56	<u>Austria</u> 46.37 N 13.07 E
	ePg A	45 18	H = 17 43 48.3 h = 10 km (NEIS)
	eSn A	45 48	D = 4.5
	eSg A	46 10	
30.	eP A	17 53 23	<u>Near Islands, Aleutian Is.</u>
	epP A	53 33	52.55 N 172.52 E
	LmV C	18 24.2	H = 17 41 38.0 h = 31.3 km MB = 5.0 D = 75.92 Az = 348 (NEIS) h = 37 km LmV C 24s 0.4/um M = 4.7
30.	eP A	21 33 27	<u>North Atlantic Ridge</u> 23.47 N 45.04 W H = 21 24 24.3 h = 33 km MB = 4.7 (NEIS) D = 51.3
30.	eP A	21 45 15	<u>North Atlantic Ridge</u> 23.36 N 45.05 W
	LmH B	22 03.2	H = 21 36 12.5 h = 33 km MB=4.6 MS=4.9
	LmV B	03.9	D = 51.28 Az = 43 (NEIS) PV A 1.4s 23.3nm M = 5.0 LmH B 18 1.0/um 4.9 LmV B 18 1.3/um 5.1

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Day	Phase	h m s	Remarks
30.	eP A	21 51 30	<u>North Atlantic Ridge</u> 23.33 N 44.95 W H = 21 42 28.0 h = 33 km MB = 4.8 D = 51.24 Az = 43 (NEIS)
31.	ePKP2 A	02 00 35	<u>Kermadec Islands Region</u> 31.69 S 179.03 W H = 01 40 04.7 h = 66 km MB = 5.3 (NEIS) D = 159.7
31.	ePKP2 A	05 28 14	<u>Kermadec Islands</u> 29.23 S 177.09 W H = 05 07 48.2 h = 43 km MB = 4.5 (NEIS) D = 158.2
31.	ePn A	15 20 47	<u>Schwäbische Alb, Fed. Rep. of Germany</u>
	ePg A	20 56	48.33 N 9.18 E
	eSn A	21 20	H = 15 20 02.6 (CSEM)
	eSg A	21 33	D = 2.8
31.	eP A	19 19 00	<u>Southern Iran</u> 27.59 N 56.30 E H = 19 11 21.4 h = 52 km MB = 4.7 D = 40.80 Az = 317 (NEIS)

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Day	Phase	h m s	Remarks	
1.	ePg eSg	A A	06 30 36 31 05	<u>Czechoslovakia</u> 50.54 N 14.65 E Explosion of 9.8 t H = 06.30.0 D = 1.94 Az = 274 (ISC)
1.	eP ePP eS eSS LmH LmV	ABC BC BC BC B B	13 44 05 45 40 50 10 53 20 14 01.6 07.5	<u>Southern Iran</u> 27.55 N 56.33 E H = 13 36 24.7 h = 29 km MB = 6.2 MS = 6.0 (NEIS) D = 41.0 PV A 1.1s 161.4nm M = 5.7 PV B 10 3.4/um 6.2 PPV B 11 2.8/um 6.0 LmH B 19 17.6/um 5.9 LmV B 12.5 10.0/um 6.0
1.	eP	A	16 08 13.5	<u>Southern Iran</u> 27.59 N 56.25 E H = 16 00 25.2 h = 33 km MB=4.9 MS=4.9 D = 40.76 Az = 317 (NEIS)
1.	eP	A	16 28 21	<u>Costa Rica</u> 9.61 N 84.62 W H = 16 15 33.5 h = 48.1 km MB = 4.6 D = 86.58 Az = 39 (NEIS) PV A 2.2s 54.5nm M = 5.5
1.	ePg eSn iSg	A A A	22 19 59 20 23 20 37	West Poland (CLL) D = 3.0
2.	eP	A	00 14 19	<u>Afghanistan - USSR Border Region</u> 36.53 N 71.40 E H = 00 06 29.8 h = 222 km MB=5.3 (NEIS) D = 44.4
2.	eP	A	01 48 31	<u>South of Alaska</u> 52.82 N 161.61 W H = 01 36 41.2 h = 33 km MB = 4.6 D = 76.75 Az = 4 (NEIS)

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Day	Phase	h m s	Remarks	
2.	eP diff +iPKP iPP eSS LmH LmV	B ABC BC B B B	07 32 35 35 00.0 38 35 57 20 08 48.8 48.9	<u>Samoa Islands Region</u> 16.70 S 172.10 W H = 07 15 22.7 h = 33 km MB=6.8 MS=7.6 D = 146.00 Az = 356 (NEIS) PKPV B 12.5s 170.0/um PPV B 16 32.2/um M = 7.3 LmH B 18.5 94.0/um 7.5 LmV B 17 121.0/um 7.7
2.	ePKIKP e e	A A A	08 05 44 05 55 06 03	<u>Samoa Region</u> 16.49 S 172.5 W H = 07 46 18 h = 116 km D = 145.77 Az = 355 (ISC) PV A 1.3s 78.6nm
2.	ePKP	A	11 13 39	<u>Samoa Islands Region</u> 16.43 S 172.64 W H = 10 54 00.6 h = 33 km MB = 5.1 D = 145.70 Az = 355 (NEIS) PKPV A 1.0s 35.4nm
2.	ePKP	A	14 56 26	<u>Samoa Region</u> 16.43 S 172.62 W H = 14 36 46.9 h = 33 km D = 145.69 Az = 145.69 (ISC)
2.	eP	A	16 09 45	<u>North Atlantic Ocean</u> 36.18 N 10.53 W H = 16 04 54.3 h = 33 km MB = 4.8 D = 21.52 Az = 41 (NEIS)
2.	ePKP epPKP	A A	20 14 09.5 14 17.5	<u>Samoa Islands Region</u> 16.92 S 171.92 W H = 19 54 30.8 h = 33 km MB = 4.8 D = 146.23 Az = 356 (NEIS) h = 29 km PKPV A 1.0s 23.6nm
2.	eP e	A A	20 51 20 51 29	<u>Chiapas, Mexico</u> 16.86 N 92.86 W H = 20 39 05.2 h = 237 km M = 4.9 D = 85.99 Az = 38 (ISC)
3.	ePn ePg eSn eSg	A A A A	00 25 32 25 45 26 13 26 35	D = 3.6

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Day	Phase	h m s	Remarks
3.	iPn A	03 19 23	<u>Austria</u> 46.24 N 13.15 E
	iPg A	19 42	H = 03 18 15.7 h = 33 km
	iSn A	20 12	D = 4.53 Az = 348 (NEIS)
	iSg A	20 36	PnV A 0.4s 287.0nm
	LmH B	21.3	LmH B 6.5 3.8/um M = 4.1
	LmV B	21.5	LmV B 8 4.6/um
3.	ePn A	06 21 14.5	<u>Austria</u> 46.28 N 13.29 E
	eSn A	22 05	H = 06 20 05.0 h = 0 km
	eSg A	22 28.5	D = 4.51 Az = 346 (ISC)
3.	ePn A	19 57 02	<u>Poland</u> 50.4 N 18.5 E
	eSg A	58 03	H = 19 55 37 h = 0 km (ISC) D = 4.35
4.	ePKP A	04 49 44	<u>New Hebrides</u> 14.35 S 167.62 E
	ePP A	52 40	H = 04 30 23 h = 30 km MB = 5.2 D = 138.91 Az = 337 (ISC)
4.	ePKP A	08 38 55	<u>Tonga Islands Region</u> 17.30 S 172.44 W
	e(pPKP) A	39 23	H = 08 19 20.4 h = 67.7 km MB = 4.9 D = 146.57 Az = 355 (NEIS) PKPV A 1.7s 48.5nm
4.	eP ABC	18 02 09	<u>Central Mid-Atlantic Ridge</u>
	ePP A	04 21	7.30 N 34.86 W
	iS BC	10 10	H = 17 52 19.7 h = 33 km
	eScS BC	12 00	MB = 5.5 MS = 6.0 (NEIS)
	eSS BC	13 40	D = 57.8
	eSSS BC	16 30	PV A 2.8s 559.0nm M = 6.2
	LmH B	22.7	SH B 14.5 4.7/um 6.1
	LmV B	22.8	LmH B 18 5.4/um 5.7 LmV B 14 5.9/um 5.9
4.	eP A	19 19 31	<u>Southern Sumatra</u> 2.77 S 102.28 E H = 19 06 35.5 h = 133 km MB = 5.1 D = 92.54 Az = 320 (NEIS)

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Day	Phase	h m s	Remarks	
5.	eP A	07 51 10	<u>Near East Coast of Kamchatka</u> 54.39 N 161.77 E H = 07 39 47.6 h = 53.2 km MB = 4.6 D = 72.39 Az = 341 (NEIS)	
	5.	eP A	11 00 59.5	<u>South of Mariana Islands</u> 12.01 N 144.19 E
		eSS BC	20 00	H = 10 42 35.0 h = 16.8 km MB=5.6 MS=5.5 D = 105.19 Az = 331 (NEIS) LmH B 18s 1.5/um M = 5.6 LmV B 16 1.2/um 5.5
5.	LmH B	40.0		
	LmV B	48.0		
5.	eP A	15 12 18	<u>Southern Nevada</u> 37.12 N 116.06 W H = 15 00 00.2 h = 0 km MB=5.6 MS=5.3 D = 81.24 Az = 31 (NEIS) PV A 1.6s 77.0nm M = 5.5	
	5.	eP A	19 55 12	<u>Crete</u> 35.03 N 26.32 E H = 19 50 48.2 h = 53.7 km MB = 4.2 D = 18.92 Az = 330 (NEIS)
6.		ePn A	07 55 54	D ca. 4.6
	ePg A	56 12		
	eSn A	56 42		
	eSg A	57 08		
6.	eP ABC	13 43 21	<u>Iran</u> 31.98 N 50.68 E	
	eS BC	48 45	H = 13 36 37.1 h = 41.1 km MB=5.5 MS=5.9	
	eScP A	49 50	D = 34.26 Az = 315 (NEIS)	
	LmH B	57.1	PV A 1.4s 62.9nm M = 5.4	
	LmV B	14 01.0	LmH B 23 19.3/um 5.8 LmV B 19 8.2/um 5.6	
6.	eP A	19 34 40	<u>Norwegian Sea</u> 61.61 N 2.47 E H = 19 31 47.5 h = 33 km MB = 5.0 D = 12.10 Az = 151 (NEIS)	

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Day	Phase	h m s	Remarks
7.	eP epP	A A 03 42 20 42 28	<u>Southern Iran</u> 27.90 N 57.06 E H = 03 34 38.1 h = 33 km MB = 4.9 D = 41.03 Az = 316 (NEIS) h = 36 km PV A traces
7.	ePKHKP	A 09 52 49.5	<u>Fiji Islands Region</u> 19.61 S 177.83 W H = 09 34 09.8 h = 617.5 km MB = 4.7 D = 148.14 Az = 349 (NEIS) PKHKPV A 1.4s 32.6nm
7.	ePKP	A 11 21 40	<u>Tonga Islands Region</u> 17.68 S 172.63 W H = 11 01 56.0 h = 33 km MB = 5.1 D = 146.94 Az = 355 (NEIS)
7.	eP	A 12 06 40	<u>Republic of South Africa</u> 26.93 S 26.66 E H = 11 54 37.1 h = 11.3 km MB = 5.5 D = 78.38 Az = 350 (NEIS) traces
7.	eP	A 17 40 12	<u>Costa Rica</u> 10.06 N 84.35 W H = 17 27 32.6 h = 33 km MB=4.9 MS=4.3 D = 86.06 Az = 39 (NEIS)
8.	ePKP	A 01 04 20	<u>Samoa Region</u> 16.30 S 172.69 W H = 00 44 42.1 h = 33 km D = 145.57 Az = 355 (ISC)
8.	eP	A 04 53 48	<u>Afghanistan - USSR Border Region</u> 36.60 N 71.00 E H = 04 46 02.6 h = 243 km MB = 4.8 (NEIS) D = 44.0 PV A 1.4s 14.0nm M = 4.1
9.	ePKP	A 01 02 55	<u>Tonga Islands Region</u> 17.43 S 172.47 W H = 00 43 19.0 h = 35.3 km MB = 4.9 D = 146.70 Az = 355 (NEIS) traces

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Day	Phase	h m s	Remarks
9.	ePg eSg	A A 03 06 35 07 06	D = 2.2
9.	eP e eSKS eS eSP eSSP esSP esSS	ABC AB BC BC BC BC BC BC BC BC 04 16 28 18 35 26 10 26 30 28 00 28 44 31 25 36 10	<u>Peru - Brazil Border Region</u> 10.02 S 71.18 W H = 04 04 12.5 h = 563.7 km MB = 5.5 (NEIS) D = 93.1 PV A 2.2s 163.8nm M = 5.8
9.	eP LmV LmH	A C C 04 54 29 05 18.4 21.8	<u>Ascension Island Region</u> 5.17 S 11.49 W H = 04 44 29.6 h = 33 km MB=5.0 MS=4.8 D = 59.05 Az = 17 (NEIS) PV A 1.6s 38.5nm M = 5.3 LmH C 20 0.4/um 4.5 LmV C 24 0.4/um 4.5
9.	ePn ePb ePg eSn eSg	A A A A A 10 59 19 59 42 59 52 11 00 30 01 12	<u>Northern Italy</u> 44.16 N 10.12 E H = 10 57 41.0 h = 33 km D = 6.57 Az = 8 (NEIS)
9.	ePKP epPKP LmH LmV	ABC A C C 21 35 48 35 54.5 22 43.7 43.7	<u>New Hebrides Islands</u> 19.09 S 169.59 E H = 21 16 14.6 h = 24.8 MB = 5.4 MS = 5.4 (NEIS) D = 144.0 h = 23 km PKPV A 1.5s 65.4nm LmH C 18 0.4/um M = 5.2 LmV C 20 0.5/um 5.3
9.	ePn iPg eSn iSg	A A A A 21 47 16 47 22 47 42.5 47 49	<u>Odenwald, Fed. Rep. of Germany</u> 49.47 N 8.44 E H = 21 46 42.2 h = 33 km (NEIS) D = 2.4

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Day	Phase	h m s	Remarks	
9.	ePKP epPKP	A A	22 10 41.5 10 47.5	<u>New Hebrides Islands</u> 19.09 S 169.65 E H = 21 51 08.1 h = 15.3 km MB = 5.0 D = 144.01 Az = 336 (NEIS) h = 21 km
10.	ePKP epPKP LmH LmV	ABC A C C	01 13 50 13 55 02 08.7 12.2	<u>New Hebrides Islands</u> 19.00 S 169.59 E H = 00 54 16.5 h = 18 km MB = 4.9 MS = 5.0 (NEIS) D = 144.0 h = 18 km PKPV A 1.5s 30.2nm LmH C 26 0.3/um M = 4.9 LmV C 26 0.4/um 5.0
10.	ePKHKP	A	04 30 17	<u>Fiji Islands Region</u> 19.27 S 178.10 W H = 04 11 29.1 h = 504.7 km MB = 4.8 D = 147.76 Az = 348 (NEIS)
10.	eiP LmH	A C	08 43 22.5 09 15.5	<u>Kurile Islands</u> 44.47 N 147.55 E H = 08 31 33.4 h = 84 km MB = 5.4 (NEIS) D = 77.7 PV A 1.3s 91.7nm M = 5.5 LmH C 20 0.5/um
10.	ePKHKP	A	18 28 37	<u>Fiji Islands Region</u> 20.97 S 179.29 W H = 18 09 58.9 h = 647.1 km MB = 4.8 D = 149.16 Az = 346 (NEIS) PKHKPV A 1.5s 25.1nm
10.	ePKP e	A A	23 04 15 04 24	<u>Samoa Islands Region</u> 16.62 S 172.32 W H = 22 44 36.7 h = 33 km MB = 4.7 D = 145.91 Az = 356 (NEIS)
11.	ePKIKP LmV LmH	A C C	02 34 34 03 27.5 33.5	<u>South of Australia</u> 52.29 S 114.59 E H = 02 15 18.1 h = 33 km MB = 5.6 MS = 5.4 D = 134.13 Az = 300 (NEIS) PKIKPV A 2.0s 51.3nm LmH C 21 0.45/um M = 5.1 LmV C 26 0.5/um 5.1

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Day	Phase	h m s	Remarks	
11.	ePKP e	A A	08 37 00 37 06	<u>New Hebrides Islands</u> 19.22 S 169.72 E H = 08 17 27.8 h = 29.1 km MB = 4.9 D = 144.15 Az = 336 (NEIS)
11.	eP	A	10 14 06	<u>El Salvador</u> 13.15 N 88.13 W H = 10 01 23.6 h = 10.3 km MB = 5.2 MS = 4.3 D = 86.02 Az = 39 (NEIS) traces
11.	eP1 eP2	A A	16 22 24.5 22 34	<u>Lake Tonganyika Region</u> 7.45 S 30.50 E H = 16 12 19.4 h = 33 km MB = 4.8 D = 60.12 Az = 346 (NEIS) P2V A 1.9s 60.6nm M = 5.4
11.	+iP1 +eP2	A A	16 27 23.5 27 27	<u>Turkey</u> 36.93 N 30.69 E H = 16 23 01.9 h = 92.7 km MB = 4.6 D = 19.35 Az = 321 (NEIS) P1V A 1.3s 52.4nm M = 4.7
11.	eP LmV LmH	A B B	18 09 51.5 20.5 21.0	<u>North Atlantic Ocean</u> 59.10 N 30.48 W H = 18 04 27.2 h = 33 km MB = 4.3 MS = 4.3 D = 25 27 Az = 91 (NEIS) PV A 1.4s 14.0nm M = 4.3 LmH B 14 0.5/um 4.2 LmV B 18 0.8/um 4.4
11.	eP	A	18 58 11	<u>Kurile Islands</u> 47.28 N 153.99 E H = 18 46 18.4 h = 34 km MB = 4.8 D = 77.21 Az = 337 (NEIS)
11.	eP LmH LmV	A B B	22 31 52 43.1 43.1	<u>North Atlantic Ocean</u> 59.57 N 30.16 W H = 22 26 29.6 h = 33 km MB = 4.5 MS = 4.7 D = 25.12 Az = 92 (NEIS) PV A 1.4s 32.6nm M = 4.7 LmH B 14.5 2.0/um 4.8 LmV B 16 2.5/um 4.9

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Day	Phase	h m s	Remarks
11.	eP	A 22 32 54	<u>North Atlantic Ocean</u> 59.56 N 30.13 W H = 22 27 30.2 h = 33 km MB = 4.7 (NEIS) D = 25.2 PV A 1.2s 28.5nm M = 4.7
11.	eP1	A 22 50 05	<u>North Atlantic Ocean</u> 59.49 N 30.25 W H = 22 44 42.3 h = 33 km MB=4.6 MS=4.7 D = 25.16 Az = 92 (NEIS) PV A 1.4s 39.6nm M = 4.8 LmH B 16.5 1.1/um 4.4 LmV B 16 1.4/um 4.7
	eP2	A 50 08	
	e	A 50 19.5	
	LmH	B 23 00.5	
	LmV	B 00.7	
11.	eP	A 23 08 25	<u>North Atlantic Ocean</u> 59.71 N 30.27 W H = 23 03 00.4 h = 33 km MB = 4.2 D = 25.18 Az = 92 (NEIS) PV A 1.3s 17.5nm M = 4.5 LmH B 15 0.8/um 4.3 LmV B 16 0.9/um 4.5
	e	A 10 07	
	LmV	B 19.0	
	LmH	B 19.2	
11.	eiP	A 23 26 06	<u>North Atlantic Ocean</u> 59.37 N 30.32 W H = 23 20 42.4 h = 33 km MB=4.5 MS=4.8 D = 25.19 Az = 92 (NEIS) PV A 1.6s 38.5nm M = 4.7 LmH B 15 0.8/um 4.3 LmV B 15 1.0/um 4.6
	LmV	B 36.7	
	LmH	B 36.8	
11.	LmV	B 23 56.4	<u>Volcano Islands Region</u> 23.09 N 142.35 E H = 22 56 44 h = 25 km MB = 5.0 (ISC) D = 99.4 LmH B 14s 0.6/um M = 5.3 LmV B 18 0.8/um 5.3
	LmH	B 58.2	
12.	eP	A 04 06 08.5	<u>Komandorsky Islands Region</u> 55.75 N 164.48 E H = 03 54 45.3 h = 42.1 km MB=5.0 MS=4.1 D = 71.59 Az = 342 (NEIS) h = 52 km
	epP	A 06 23	

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Day	Phase	h m s	Remarks
12.	eP	A 10 51 08	<u>Kyushu, Japan</u> 31.82 N 131.55 E H = 10 38 49.8 h = 43.6 km MB = 5.1 D = 82.29 Az = 326 (NEIS) h = 43 km PV A 1.6s 22.0nm M = 4.9 LmH B 17.5 1.7/um 5.5 LmV B 16.5 2.5/um 5.7
	epP	A 51 20	
	LmH	B 11 31.8	
	LmV	B 31.9	
13.	e	A 05 42 47.5	<u>Mindanao, Philippine Islands</u> 7.28 N 126.79 E H = 05 28 58.7 h = 58.3 km MB = 5.4 D = 99.88 Az = 324 (NEIS) LmV B 18s 0.5/um
	LmH	B 06 35.9	
	LmV	B 35.9	
13.	eiP	AB 11 41 41.5	<u>Hindu Kush Region</u> 36.47 N 70.91 E H = 11 33 51.8 h = 196.4 km MB = 5.3 D = 44.07 Az = 308 (NEIS) h = 180 km PV A 1.5s 120.6nm M = 5.2
	esP	C 42 40	
	e	A 42 50	
	epPP	C 43 55	
	esPP	C 44 35	
	eS	C 48 00	
	esS	C 49 20	
	eSS	C 51 30	
13.	eP	A 12 59 37	<u>Talau Islands</u> 3.78 N 126.76 E H = 12 45 42.0 h = 42.6 km MB=5.7 MS=5.2 D = 102.67 Az = 324 (NEIS) PV A 1.6s 33.0nm M = 5.8 LmH B 18 0.6/um 5.1 LmV B 18 0.8/um 5.3
	LmV	B 13 49.4	
	LmH	B 49.6	
13.	ePn	A 14 05 06	<u>Yugoslavia</u> 43.26 N 18.78 E H = 14 02 51.3 h = 10 km D = 8.86 Az = 329 (NEIS)
	eSn	A 06 39	
13.	eP	A 18 32 40	<u>Andreanof Islands, Aleutian Is.</u> 5.70 N 179.61 W H = 18 20 43.3 h = 46.3 km MB = 5.1 D = 77.59 Az = 353 (NEIS)

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Day	Phase	h m s	Remarks
13.	ePKHKP A	19 30 51	<u>South of Fiji Islands</u> 22.17 S 179.54 E H = 19 12 02.8 h = 555 km MB = 5.0 D = 150.04 Az = 345 (NEIS)
14.	ePKP A	04 24 10.5	<u>Fiji Islands Region</u> 17.67 S 178.65 W H = 04 05 31.2 h = 535 km MB = 5.2 D = 146.09 Az = 348 (NEIS) PKPV A 1.4s 186.0nm
14.	eP A LmH B LmV B	07 20 44 26.2 26.7	<u>Algeria</u> 36.26 N 5.74 E H = 07 17 09.0 h = 18.1 km MB=4.7 MS=4.3 D = 14.99 Az = 15 (NEIS) PV A 1.5s 22.6nm M = 4.3 LmH B 16 1.0/um 4.1 LmV B 15 1.0/um 4.3
16.	eP A	04 14(18)	<u>Fox Islands, Aleutian Is.</u> 52.02 N 170.47 W H = 04 02 17.1 h = 14.9 km MB = 4.9 (NEIS) D = 77.9
16.	ePKIKP A ePKHKP A ePKP2 A	06 49 52 49 57.5 50 05.5	<u>Fiji Islands</u> 21.49 S 179.21 W H = 06 31 13.7 h = 600 km MB = 5.2 D = 149.68 Az = 346 (NEIS) PKHKPV A 1.4s 65.1nm PKP2V A 1.4 27.9nm
17.	ePKHKP A	02 54 32	<u>Tonga Islands</u> 21.01 S 173.92 W H = 02 34 43.0 h = 32.7 km MB = 5.0 (NEIS) D = 150.2
18.	+iP AB esP B esPP B	00 20 52 22 00 23 48	<u>Hindu Kush Region</u> 36.45 N 70.78 E H = 00 13 04.6 h = 216.8 km MB = 5.4 D = 44.00 Az = 308 (NEIS) h = 215 km PV A 1.5s 136.0nm M = 5.2
18.	eP A	11 09 02	<u>Jan Mayen Island Region</u> 70.49 N 15.40 W H = 11 03 50.5 h = 10 km MB = 4.3 D = 23.52 Az = 134 (NEIS)

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Day	Phase	h m s	Remarks
18.	eP A	13 15 43	<u>Nicaragua</u> 11.38 N 85.62 W H = 13 03 24.8 h = 201.2 km MB = 4.8 D = 85.84 Az = 39 (NEIS)
18.	eP A	16 18 15	<u>Mid - Indian Rise</u> 10.57 S 66.80 E H = 16 06 20.4 h = 33 km MB=5.0 MS=4.3 D = 77.47 Az = 328 (NEIS)
18.	eP A LmV C	19 09 45 42.5	<u>Guerrero, Mexico</u> 18.61 N 101.40 W H = 18 56 55.2 h = 90.9 km MB = 5.0 D = 89.51 Az = 36 (NEIS) PV A 2.0s 42.7nm M = 5.3 LmV C 40 0.6/um
19.	ePn A eSg A	02 25 47 28 33	<u>Yugoslavia</u> 43.16 N 17.75 E H = 02 23 42.9 h = 33 km D = 8.58 Az = 333 (NEIS)
19.	LmH C LmV C	06 05.0 10.3	<u>Philippine Islands Region</u> 15.07 N 122.70 E H = 05 09 14.2 h = 50 km MB = 4.5 (ISC) D = 91.3
19.	+eP A	06 27 15.5	<u>Near East Coast of Honshu, Japan</u> 36.46 N 140.56 E H = 06 14 59.6 h = 65 km MB = 5.3 D = 82.32 Az = 330 (NEIS) PV A 1.2s 32.6nm M = 5.2
19.	ePKP A	22 04 48	<u>Banda Sea</u> 5.54 S 125.37 E H = 21 46 33.7 h = 526.5 km MB = 5.7 (NEIS) D = 109.3 PKPV A 2.0s 34.2nm
20.	eP A	00 31 11	<u>Andreanof Islands, Aleutian Is.</u> 51.12 N 179.03 W H = 00 19 13.5 h = 33 km MB = 4.7 D = 78.21 Az = 353 (NEIS)

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Day	Phase	h m s	Remarks
20.	iPn	A 00 33 35	<u>Yugoslavia</u> 44.92 N 17.39 E
	i	A 33 40	H = 00 31 53.8 h = 33 km MB=4.6 MS=3.7
	iPg	A 33 57	D = 6.92 Az = 328 (NEIS)
	iSn	A 34 51	PnV A 1.0s 98.5nm M = 5.7
	e	A 35 07	LmH B 12 5.9/um 4.4
	eSb	A 35 16	LmV B 12 2.1/um
	eSg	A 35(25)	
	LmH	B 35.8	
	LmV	B 36.5	
	20.	ePKP2	A 03 34 22
20.	eP	A 04 30 05	<u>Southern Iran</u> 26.94 N 55.47 E
	LmV	B 49.2	H = 04 22 24.8 h = 33 km
	LmH	B 50.2	MB = 5.1 MS = 4.4 (NEIS) D = 40.8
			PV A 1.8s 40.6nm M = 4.9 LmH B 15 0.6/um 4.6 LmV B 16 0.5/um 4.6
20.	-eP	AB 20 16 17	<u>South of Honshu, Japan</u> 30.60 N 137.48 E
	ePP	B 18 55	H = 20 04 29.4 h = 493.3 km MB = 5.5
	eS	B 26 06	D = 86.05 Az = 329 (NEIS)
	ePS	B 27 05	PV A 1.5s 115.8nm M = 5.4
	LmH	B 58.5	LmH B 15 0.4/um
	LmV	B 21 01.8	LmV B 14 0.5/um
20.	ePKIKP	AB 23 32 22	<u>Solomon Islands</u> 9.83 S 160.32 E
	e	A 34 30.5	H = 23 13 10.4 h = 33 km MB=6.4 MS=6.7
	ePP	C 34 40	D = 131.83 Az = 334 (NEIS)
	ePKS	B 35 48	PKIKPV A 2.8s 322.0nm
	eSKS	B 36 35	PKIKPV B 8 2.0/um
	eSS	B 52 15	LmH B 22.5 98.5/um M = 7.4
	LmH	B 58.3	LmV B 20 110.0/um 7.6
	LmV	B 24 02.4	

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Day	Phase	h m s	Remarks
20.	ePKIKP1	A 24 02 03	<u>Solomon Islands</u> 9.89 S 160.35 E
	ePKIKP2	AB 02 21	H = 23 42 50.5 h = 19.2 km MB=6.3 MS=7.5
	ePP2	B 04 50	D = 131.90 Az = 334 (NEIS)
	LmH	B 25 01.3	PKIKP2V A 1.8s 236.1nm
	LmV	B 02.2	LmH B 21 85.3/um M = 7.4 LmV B 20.5 97.2/um 7.5
20.	e(PP)	A 24 10 38	<u>Solomon Islands</u> 9.76 S 160.69 E H = 23 49 13.4 h = 33 km MB = 6.7 (ISC) D = 131.9 (PP)V A 2.2s 173.0nm M = 6.0
21.	ePKIKP	A 00 24 20	<u>Solomon Islands</u> 9.80 S 160.21 E H = 00 05 27.7 h = 33 km MB = 5.5 D = 131.76 Az = 334 (NEIS) PKIKPV A 2.0s 77.0nm
21.	eP	A 01 58 54.5	<u>Bonin Islands Region</u> 26.86 N 142.44 E
	ePP	A 02 40	H = 01 45 50.2 h = 33 km MB=5.8 MS=6.2 D = 91.45 Az = 331 (NEIS) PV A 1.5s 45.2nm M = 5.6 PPV A 2.0 179.5nm 6.2
21.	eP	A 04 05 08	<u>Jan Mayen Island Region</u> 70.89 N 14.21 W H = 03 59 56.2 h = 10 km MB = 4.9 D = 23.53 Az = 136 (NEIS) PV A 2.8s 236.0nm M = 5.3
21.	e(SKIP)	AB 04 30 25	<u>Solomon Islands</u> 9.85 S 159.93 E H = 04 07 44.5 h = 27.2 km MB = 5.1 D = 131.68 Az = 333 (NEIS) SKPV A 4.0s 621.1nm SKPV B 6 3.0/um
21.	+iPKIKP	B 04 43 20	<u>Solomon Islands</u> 9.97 S 160.73 E
	ePP	B 45 24	H = 04 24 09.6 h = 33 km MB=6.6 MS=7.5
	ePKS	B 46 50	D = 132.13 Az = 334 (NEIS)
	e	B 47 56	PKIKPV B 11s 4.6/um
	e	B 49 04	LmH B 19.5 83.5/um M = 7.4

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Day	Phase	h m s	Remarks
cont. 21.	eSS	B 05 03 12	LmV B 19.5s 103.0/um M = 7.5
	LmH	B 44.3	The short-period seismographs (type A)
	LmV	B 44.9	had been out of operation.
21.	ePKIKP	A 05 25 40	<u>Solomon Islands</u> 10.15 S 160.70 E
	eX	A 27 57	H = 05 06 28.5 h = 33 km MB = 5.8
			D = 132.28 Az = 334 (NEIS)
			PKIKPV A 1.6s 22.0nm
			XV A 1.8 33.8nm
21.	ePP	A 07 40 27	<u>Solomon Islands</u> 10.25 S 160.73 E
			H = 07 18 51.1 h = 33 km MB=5.6 MS=6.0
			D = 132.38 Az = 334 (NEIS)
			traces
21.	eX	A 10 07 24	<u>Solomon Islands</u> 10.28 S 160.75 E
			H = 09 45 38.2 h = 33 km MB=5.6 MS=5.6
			D = 132.4 (NEIS)
			XV A 2.0s 34.2nm
21.	eP	A 10 11 43	<u>Tadzhik SSR</u> 40.08 N 70.84 E
	e	A 11 47.5	H = 10 03 55.8 h = 47.3 km MB = 5.1
	e	A 11 50	D = 41.88 Az = 305 (NEIS)
			PV A 1.1s 20.2nm M = 4.8
21.	eP	A 13 45 58.5	<u>Uzbek SSR</u> 40.49 N 63.78 E
			H = 13 38 49.2 h = 33 km MB = 4.9
			D = 37.20 Az = 304 (NEIS)
21.	eP	A 17 33 51	<u>Bonin Islands Region</u> 26.70 N 142.39 E
	ePP	A 37 33.5	H = 17 20 44.7 h = 27 km MB=5.2 MS=4.7
	LmH	B 18 16.2	D = 91.57 Az = 331 (NEIS)
	LmV	B 25.0	PV A 1.4s 23.3nm M = 5.3
			LmH B 18 0.9/um 5.3
			LmV B 15 0.7/um 5.3

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Day	Phase	h m s	Remarks
22.	eP	A 01 02 49	<u>Northwest of Kurile Islands</u>
			52.26 N 153.82 E
			H = 00 52 01.6 h = 390.1 km MB = 4.8
			D = 72.60 Az = 336 (NEIS)
			PV A 1.2s 32.5nm M = 4.9
22.	ePKS	B 03 33 38	<u>Solomon Islands</u> 10.17 S 160.66 E
	eSS	B 50 05	H = 03 11 00.2 h = 50.6 km
	LmH	B 04 29.5	MB = 5.6 MS = 6.0 (NEIS)
	LmV	B 29.6	D = 132.3
			LmH B 21s 3.7/um M = 6.1
			LmV B 22 3.0/um 6.0
22.	eP	A 06 34 41	<u>Off Coast of Oregon</u> 44.23 N 129.38 W
			H = 06 22 31.5 h = 15 km MB=5.0 MS=4.7
			D = 79.61 Az = 24 (NEIS)
			PV A 2.0s 51.3nm M = 5.2
22.	eP	A 08 28 12	<u>Off Coast of Oregon</u> 44.25 N 129.28 W
	eX	A 28 18	H = 08 16 04.5 h = 15 km MB=5.2 MS=4.7
	LmH	B 09 05.5	D = 79.56 Az = 24 (NEIS)
	LmV	B 06.1	XV A 1.7s 36.4nm
			LmH B 18 0.7/um M = 5.0
			LmV B 16 0.6/um 5.1
22.	ePn	A 13 07 54	<u>Corsica</u> 43.95 N 8.67 E
	eSn	A 08 04	H = 13 06 06.3 h = 41.4 km MB = 4.8
	eSg	A 08 57	D = 6.99 Az = 16 (NEIS)
22.	LmH	B 14 54.0	<u>East China Sea</u> 27.37 N 126.67 E
	LmV	B 15 02.5	H = 14 07 27.8 h = 33 km MB = 5.0 (NEIS)
			D = 83.5
			LmH B 19.5s 1.8/um M = 5.5
			LmV B 16 2.0/um 5.6
22.	LmH	C 19 43.8	<u>Solomon Islands</u> 10.03 S 160.66 E
	LmV	C 43.8	H = 18 25 11.0 h = 25 km
			MB = 5.3 MS = 5.2 (NEIS)
			D = 132.2

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Day	Phase	h m s	Remarks
cont. 22.			LmH C 20s 0.8/um M = 5.4 LmV C 20 0.8/um 5.4
22.	eP A	21 05 42	<u>Samoa Islands Region</u> 16.56 S 172.52 W H = 20 46 02.5 h = 33 km MB = 5.1 D = 84.27 Az = 325 (NEIS) PV A 1.0s 15.7nm M = 5.2
22.	eP A	22 27 32	<u>Eastern Sea of Japan</u> 42.99 N 139.51 E H = 22 15 44.0 h = 32.8 km MB = 5.0 D = 76.29 Az = 329 (NEIS)
22.	ePKP A	23 30 30	<u>Fiji Islands Region</u> 17.75 S 178.28 W H = 23 11 47.9 h = 538.5 km MB = 5.5 D = 146.24 Az = 349 (NEIS). PKPV A 1.4s 46.5nm
22.	eP A	24 00 17	<u>Greece</u> 38.93 N 21.16 E H = 23 57 07.2 h = 69.6 km MB = 4.3 D = 13.52 Az = 333 (NEIS)
23.	eP A LmH C LmV C	01 45 09 02 22.0 26.0	<u>Ryukyu Islands</u> 26.61 N 126.93 E H = 01 32 38.3 h = 33 km MB = 5.2 D = 84.27 Az = 325 (NEIS) PV traces LmH C 16s 0.4/um M = 4.9 LmV C 18 0.45/um 4.9
23.	ePKHKP A	09 47 29	<u>Fiji Islands Region</u> 20.95 S 178.86 W H = 09 28 41.8 h = 559.4 km MB = 4.5 D = 149.23 Az = 347 (NEIS)
23.	eP A e A LmH C LmV C	14 57 54 58 04.5 15 20.5 20.5	<u>Laptev Sea</u> 75.23 N 134.38 E H = 14 49 09.1 h = 37.5 km MB=5.0 MS=4.2 D = 48.93 Az = 315 (NEIS) PV A 1.4s 27.9nm M = 5.1 LmH C 20 0.3/um 4.3 LmV C 20 0.3/um 4.4

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Day	Phase	h m s	Remarks
23.	ePn A ePg A eSg A	15 26 28.5 26 35.5 27 11	<u>Poland</u> (CLL) D = 2.5
24.	ePKP A	03 43 41.5	<u>Samoa Islands Region</u> 16.56 S 172.79 W H = 03 24 01.4 h = 33 km MB = 4.7 (NEIS) D = 145.8
24.	LmH C LmV C	07 46.7 47.3	<u>Solomon Islands</u> 9.87 S 160.07 E H = 06 28 52.3 h = 29 km MB = 5.4 MS = 5.0 (NEIS) D = 131.8 LmH C 22s 0.9/um M = 5.4 LmV C 21 0.9/um 5.4
24.	LmV C	19 12.8	<u>Mariana Islands</u> 13.0 N 145.2 E H = 18 03 43.9 h = 59 km MB = 4.8 (NEIS) D = 104.9 LmV C 17s 0.3/um
24.	eP A LmV C	20 54 50 21 30.5	<u>Near East Coast of Honshu, Japan</u> 40.05 N 142.72 E H = 20 42 43.2 h = 43.9 km MB=5.0 MS=4.1 D = 80.04 Az = 331 (NEIS) LmV C 24s 0.35/um M = 4.7
25.	+iP A ePn A	04 14 47.2 16 18.5	<u>Eastern Kazakh SSR</u> 49.84 N 78.16 E H = 04 06 57.8 h = 0 km MB = 5.1 D = 41.26 Az = 298 (NEIS) Underground explosion (UPP) PV A 0.7s 42.2nm M = 5.3
25.	LmH B LmV B	05 47.8 49.1	<u>Turkey</u> 39.35 N 27.69 E H = 05 34 28.2 h = 33 km (NEIS) D = 16.0 LmH B 16s 0.7/um M = 3.9 LmV B 13.5 0.4/um 3.9

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Day	Phase	h m s	Remarks
25.	eFKP	A 17 29 03	<u>Samoa Islands Region</u> 16.25 S 172.64 W H = 17 09 26.5 h = 33 km MB = 4.9 (NEIS) D = 145.06
26.	LmV LmH	B 12 01.8 B 03.0	<u>Southern Pacific Ocean</u> 41.32 S 89.27 W H = 10 48 00.2 h = 33 km MB = 4.9 MS = 5.0 (NEIS) D = 126.6 LmH B 17s 0.7/um M = 5.4 LmV B 18 0.7/um 5.4
26.	eP eS eSa LmH LmV	A 16 31 58 BC 37 10 B 39 20 B 47.3 B 48.7	<u>Western Iran</u> 32.66 N 48.92 E H = 16 25 29.0 h = 47.3 km MB = 5.4 MS = 4.8 (NEIS) D = 32.6 PV A 1.7s 48.5nm M = 5.2 LmH B 16 2.1/um 4.9 LmV B 15 2.3/um 5.1
26.	eP epP LmH LmV	A 23 18 40 A 18 55 B 54.0 B 58.5	<u>Kurile Islands Region</u> 43.39 N 148.02 E H = 23 06 40.4 h = 33.6 km MB = 5.0 MS = 5.0 (NEIS) D = 79.0 h = 40.5 km LmH B 18s 0.9/um M = 5.2 LmV B 15 0.7/um 5.2
27.	ePKIKP	A 04 13 49.5	<u>South Pacific Cordillera</u> 55.20 S 127.24 W H = 03 53 57.5 h = 33 km MB = 5.1 MS = 5.0 (NEIS) D = 155.0
27.	eP ePP	A 12 11 47.5 A 15 19.5	<u>South of Honshu, Japan</u> 29.38 N 142.02 E H = 11 58 54.1 h = 25.5 km MB=5.3 MS=4.2 D = 89.07 Az = 331 (NEIS)
27.	LmH LmV	C 14 32.6 C 33.2	<u>Solomon Islands</u> 10.21 S 160.64 E H = 13 14 23.2 h = 56 km MB = 5.1 (NEIS) D = 132.3 LmH C 22s 0.8/um M = 5.3 LmV C 20 0.7/um 5.4

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Day	Phase	h m s	Remarks
27.	eP ePP	A 15 12 18 A 16 17	<u>Southern Nevada</u> 37.10 N 116.03 W H = 15 00 00.1 h = 0 km MB=5.4 MS=4.2 D = 81.25 Az = 31 (NEIS) Nuclear explosion BULKHEAD (ERDA) PV A 1.4s 32.6nm M = 5.2
27.	ePn ePg eSn eSg	A 23 27 04 A 27 40 A 28 36 A 29 09	<u>France</u> 46.55 N 2.98 E H = 23 25 19.9 h = 29 km (NEIS) D = 7.2
28.	eSg	A 03 26 05	<u>France</u> 46.46 N 3.03 E H = 03 22 23.0 h = 22 km D = 7.2
28.	ePn eSn eSg	A 03 43 40.5 A 44 58 A 45 47	<u>Yugoslavia</u> 44.87 N 17.37 E H = 03 41 56.5 h = 13.6 km MB = 4.0 D = 6.96 Az = 328 (NEIS)
28.	LmH LmV	B 05 02.6 B 10.8	<u>South of Mariana Islands</u> 12.74 N 145.02 E H = 04 03 12.9 h = 45 km MB = 5.0 MS = 5.1 (NEIS) D = 105.0 LmH B 17.5s 1.1/um M = 5.5 LmV B 16 0.7/um 5.3
28.	ePn e eSn eSg	A 06 23 16 A 23 27 A 24 32 A 25 20	<u>Yugoslavia</u> 44.87 N 16.96 E H = 06 21 37.0 h = 10 km (NEIS) D = 6.8
28.	e(pP)	A 13 49 55	<u>Andreanof Islands, Aleutian Is.</u> 50.60 N 177.63 W H = 13 37 37.7 h = 21.5 km MB = 4.4 D = 78.82 Az = 354 (NEIS)

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Day	Phase	h m s	Remarks
29.	LmH B	06 39.5	<u>Solomon Islands</u> 9.99 S 159.94 E H = 05 59 11.7 h = 8 km MB = 5.1 (NEIS) D = 131.8
	LmV B	45.7	LmH B 20s 0.7/um M = 5.4 LmV B 16 0.4/um 5.2
29.	eP A	08 26 17	<u>Gulf of Alaska</u> 59.42 N 145.00 W
	epP A	26 21	H = 08 15 11.8 h = 7.9 km MB=4.7 MS=4.1
	LmH B	09 01.7	D = 68.66 Az = 16 (NEIS)
	LmV B	03.1	h = 15.5 km PV A 1.1s 20.2nm M = 5.2 LmV B 16 0.3/um 4.6
30.	e(PKP) A	00 20 07	<u>Tonga Islands</u> 17.34 S 173.00 W H = 00 00 14.0 h = 33 km MB = 5.3 D = 146.57 Az = 355 (NEIS) traces
	ePKHKP A	02 25 22.5	<u>Tonga Islands</u> 16.98 S 174.06 W H = 02 05 45.7 h = 42.4 km MB = 5.0 D = 146.11 Az = 354 (NEIS)
30.	eP A	14 43 18	<u>Southern Iran</u> 27.60 N 56.49 E
	ePcP A	45 21.5	H = 14 35 37.3 h = 38 km
	LmH C	15 00.1	MB = 5.0 MS = 4.8 (NEIS)
	LmV C	04.5	D = 41.0 PV A 1.3s 17.5nm M = 4.6 LmH C 24 0.5/um 4.3 LmV C 16 0.2/um 4.1
30.	eP A	16 30 36	<u>North Atlantic Ridge</u> 32.43 N 40.34 W
	epP A	30 43	H = 16 22 45.3 h = 33 km
	ePP BC	32 10	MB = 4.6 MS = 5.1 (NEIS)
	ePcP A	32 30	D = 42.0 h = 32 km
	eS BC	36 50	PV A 2.2s 54.6nm M = 4.9
	eSS BC	40 10	LmH B 21 1.3/um 4.8
	LmH B	44.9	LmV B 17 1.1/um 4.9
	LmV B	45.8	

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Day	Phase	h m s	Remarks
30.	eP A	16 55 51	<u>Andreanof Islands, Aleutian Is.</u> 51.70 N 173.42 W H = 16 43 55.3 h = 38 km MB = 4.6 D = 77.95 Az = 357 (NEIS) traces
	LmH B	21 32.3	<u>Near Coast of Peru</u> 14.99 S 75.61 W
30.	LmV B	32.3	H = 20 31 47.7 h = 10 km MB = 5.3 MS = 4.8 (NEIS) D = 99.7 LmH B 17s 0.3/um M = 4.8 LmV B 18 0.5/um 5.1
	eP A	22 01 36	<u>Andreanof Islands, Aleutian Is.</u>
30.	epP A	01 50	51.65 N 173.43 W
	eSKS C	11 30	H = 21 49 40.7 h = 42.0 km MB=4.8 MS=4.8
	eFS C	12 10	D = 78.00 Az = 357 (NEIS)
	eSS C	16 30	h = 50 km
	LmH B	44.8	PV A 2.0s 34.2nm M = 5.0 LmH B 16 0.6/um 5.0 LmV B 20 0.4/um 4.7
30.	LmV B	45.0	
	e(PP) A	23 36 56	<u>Norwegian Sea</u> 68.15 N 10.53 E
	LmH B	44.5	H = 23 32 42.2 h = 14.5 km MB = 4.1
30.	LmV B	44.5	D = 17.57 Az = 178 (NEIS) LmH B 16s 0.4/um M = 3.8 LmV B 12 0.5/um 4.2

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Day	Phase	h m s	Remarks
1.	eP	A 00 22 12	<u>Northern Peru</u> 6.12 S 77.13 W H = 00 09 06.2 h = 123 km MB = 4.9 (NEIS) D = 94.0
1.	eSg	A 03 13 08	<u>West Poland (CLL)</u>
1.	LmV LmH	C 09 52.5 C 52.8	<u>Solomon Islands</u> 9.88 S 160.65 E H = 08 35 29.5 h = 19 km MB = 5.5 (NEIS) D = 132.0 LmH C 24s 0.3/um M = 4.9 LmV C 20 0.3/um 5.0
1.	LmH LmV	B 17 09.5 B 11.8	<u>Southern Honshu, Japan</u> 35.16 N 132.61 E H = 16 23 01.7 h = 6 km MB = 4.5 MS = 4.6 (NEIS) D = 80 LmH B 15.5s 1.5/um M = 5.5 LmV B 14 0.7/um 5.2
1.	ePKP ePP	A 18 58 26 A 19 00 26	<u>Solomon Islands</u> 7.20 S 154.39 E H = 18 39 23.8 h = 32 km MB = 5.6 (NEIS) D = 126.8 PV A 1.0s 7.9nm PPV A 2.2 54.5nm M = 5.5
2.	ePKP2	A 02 00 02	<u>Tonga Region</u> 18.7 S 172.76 W H = 01 40 14.5 h = 33 km D = 147.89 Az = 355 (ISC) PKP2V A 1.6s 16.5nm
2.	eP epP LmV	A 04 06 46 A 06 53 C 33.2	<u>Ascension Island Region</u> 7.17 S 13.61 W H = 03 56 29.7 h = 33 km MB=4.7 MS=4.1 D = 61.58 Az = 18 (NEIS) h = 27 km PV A 1.0s 11.8nm M = 5.0 LmV C 18 0.3/um 4.5

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Day	Phase	h m s	Remarks
2.	LmH LmV	B 05 58.2 B 06 02.2	<u>South of Honshu</u> 31.14 N 138.73 E H = 05 05 24.4 h = 33 km (ISC) D = 86.1 LmH B 16s 0.4/um M = 4.9 LmV B 16 0.5/um 5.1
2.	ePKHKP ePKP2	A 07 43 40.5 A 43 48	<u>Fiji Islands Region</u> 21.23 S 178.83 W H = 07 24 56.0 h = 579.1 km MB = 4.9 D = 149.51 Az = 347 (NEIS)
2.	eP	A 15 24 31	<u>Iran - USSR Border Region</u> 36.96 N 55.25 E H = 15 17 48.9 h = 19 km MB = 5.3 (NEIS) D = 33.8 PV A 1.3s 26.2nm M = 5.0
2.	eSg	A 17 55 30	<u>Switzerland</u> 46.61 N 8.66 E H = 17 53 11.2 h = 33 km (NEIS) D = 4.5
2.	eP epP ePP eSKS eS ePS ePPS eSS LmH LmV	ABC 22 07 32 A 07 38 BC 11 35 C 18 10 BC 18 48 B 20 30 BC 21 10 B 25 35 B 50.2 B 23 00.3	<u>Mindanao, Philippine Islands</u> 7.19 N 123.26 E H = 21 53 56.5 h = 24 km MB = 5.7 MS = 5.5 (NEIS) D = 98.0 h = 21 km PV A 2.0s 68.5nm M = 5.8 LmH B 18.5 1.5/um 5.5 LmV B 16 1.8/um 5.7
3.	+iP ePP	A 03 27 32.5 A 31 13	<u>Bonin Islands Region</u> 27.38 N 140.20 E H = 03 15 07.6 h = 312 km MB = 4.8 (NEIS) D = 90
3.	eP epP LmH LmV	A 12 37 39 A 37 49 B 13 08.5 B 11.6	<u>Szechwan Province, China</u> 27.37 N 101.05 E H = 12 26 33.0 h = 33 km MB = 5.0 D = 69.01 Az = 317 (NEIS) h = 38 km

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Day	Phase	h m s	Remarks
cont. 3.			LmH B 20s 0.3/um M = 4.5 LmV B 16 0.3/um 4.6
3.	ePP	A 17 58 31	<u>Spain</u> 37.08 N 4.34 W H = 17 54 09.7 h = 33 km D = 17.73 Az = 35 (NEIS)
3.	LmH LmV	B 23 14.0 B 22.2	<u>Ryukyu Islands Region</u> 26.57 N 130.27 E H = 22 25 07.9 h = 33 km MB = 4.9 (NEIS) D = 86 LmH B 20s 0.2/um M = 4.6 LmV B 16 0.3/um 4.7
4.	eP LmH LmV	A 02 08 12 C 21.6 C 23.9	<u>Iran</u> 31.79 N 50.86 E H = 02 01 25.7 h = 46.1 km MB = 4.8 D = 34.50 Az = 315 (NEIS) LmH C 24s 0.5/um M = 4.2 LmV C 20 0.3/um 4.1
4.	eP LmH LmV	A 02 45 47 C 03 06.5 C 06.5	<u>Afghanistan - USSR Border Region</u> 36.93 N 71.39 E H = 02 37 44.4 h = 122 km MB = 5.3 (NEIS) D = 44.1 LmH C 20s 0.3/um LmV C 20 0.3/um
4.	ePKHKP ePKP2 epPKP	A 08 36 02 A 36 07 A 37 46	<u>Fiji Islands Region</u> 20.31 S 178.42 W H = 08 17 20.5 h = 586.6 km MB = 4.7 D = 148.71 Az = 348 (NEIS) h c. 450 km PKHKPV A 1.0s 23.6nm
4.	ePn ePg eSn eSg	A 13 59 03 A 59 08 A 59 28 A 59 38	<u>USSR - Austria, Border Region</u> 48.75 N 13.99 E H = 13 58 19.3 h = 0 km D = 2.45 Az = 322 (ISC)

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Day	Phase	h m s	Remarks
5.	eP epP e ePKKP LmH LmV	A 22 26 28.5 A 26 50 A 29 46 A 45 10 B 23 03.9 B 04.2	<u>Hokkaido, Japan Region</u> 41.90 N 142.34 E H = 22 14 34.7 h = 70.7 km MB = 5.0 D = 78.29 Az = 330 (NEIS) h = 86 km PV A 1.2s 24.4nm M = 5.0 LmH B 20 0.3/um 4.6 LmV B 20 0.4/um 4.8
5.	ePKHKP ePKP2 LmV LmH	A 22 27 00.5 A 27 04 B 23 36.3 B 42.9	<u>Tonga Islands Region</u> 17.15 S 172.13 W H = 22 07 20.9 h = 33 km MB = 5.2 (NEIS) D = 146.5 PKHKPV A 1.3s 69.8nm PKP2V A 2.0 128.2nm LmH B 20 0.3/um M = 5.0 LmV B 20 0.4/um 5.2
5.	eP LmH LmV	A 23 17 27 B 24.0 B 26.1	<u>Crete</u> 34.63 N 24.79 E H = 23 13 07.3 h = 15.6 km MB = 4.2 D = 18.67 Az = 333 (NEIS) LmH B 20s 0.3/um M = 3.6 LmV B 24 1.7/um 4.4
6.	eP LmV LmH	A 04 05 26.5 C 37.5 C 45.5	<u>Kurile Islands Region</u> 45.94 N 152.06 E H = 03 53 30.2 h = 29.5 km MB=5.4 MS=4.5 D = 77.89 Az = 336 (NEIS) PV A 1.7s 103.0nm M = 5.6 LmH C 20 0.6/um 4.9 LmV C 28 0.4/um 4.6
6.	LmH LmV	B 13 50.8 B 55.0	<u>Near Coast of Peru</u> 15.88 S 75.03 W H = 12 52 38.1 h = 33 km MB = 5.0 MS = 4.4 (NEIS) D = 100 LmH B 20s 0.3/um M = 4.7 LmV B 20 0.4/um 4.9
6.	eP	A 16 59 25	<u>Southern Alaska</u> 59.43 N 152.57 W H = 16 48 23.8 h = 87.2 km D = 69.53 Az = 11 (NEIS)

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Day	Phase	h m s	Remarks
6.	eP	A 21 49 34	<u>Kurile Islands Region</u> 46.52 N 153.98 E H = 21 37 38.4 h = 35 km MB = 5.2 (NEIS) D = 77.9 PV A 0.8s 30.8nm M = 5.4 LmH B 16 0.3/um 4.7 LmV B 18 0.3/um 4.8
	e	A 50 15	
	LmH	B 22 25.8	
	LmV	B 31.2	
6.	eP	A 22 22 11	<u>Kurile Islands Region</u> 46.60 N 154.11 E H = 22 10 17.5 h = 42.8 km MB = 4.6 D = 77.86 Az = 337 (NEIS)
6.	eP	A 22 56 10	<u>Kurile Islands</u> 47.42 N 153.79 E H = 22 44 18.7 h = 33 km MB = 4.9 D = 77.02 Az = 336 (NEIS) PV A 1.0s 7.9nm M = 4.7
7.	+eP	A 02 18 24.5	<u>Jan Mayen Island Region</u> 71.75 N 1.81 W H = 02 13 32.7 h = 33 km MB = 5.4 MS = 5.1 (NEIS) D = 22 h = 25 km PV A 1.5s 261.0nm M = 5.4 SH B 11 2.4/um 5.4 LmH B 16 3.0/um 4.8 LmV B 16 3.3/um 5.0
	epP	A 18 31.5	
	eS	BC 22 28	
	LmH	B 28.3	
	LmV	B 28.3	
7.	ePKHKP ABC	15 31 20	<u>Tonga Islands Region</u> 18.20 S 172.43 W H = 15 11 37.2 h = 33 km MB = 5.0 D = 147.47 Az = 355 (NEIS) h c. 45 km PKHKPV A 2.0s 68.4nm
7.	epPKP	A 31 36	<u>Kurile Islands</u> 46.77 N 153.83 E H = 15 55 16.2 h = 33 km MB=5.0 MS=4.3 D = 77.63 Az = 336 (NEIS) h = 47 km PV A 1.2s 28.4nm M = 5.2 LmH B 17 0.4/um 4.8 LmV B 16 0.2/um 4.6
	eP	A 16 07 11	
	epP	A 07 29	
	LmH	B 41.4	
	LmV	B 48.7	

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Day	Phase	h m s	Remarks
7.	eP	A 16 46 22	<u>Kurile Islands</u> 47.03 N 153.71 E H = 16 34 27.0 h = 15.8 km MB = 5.1 D = 77.36 Az = 336 (NEIS) PV A 1.1s 28.2nm M = 5.2
7.	ePKHKP	A 18 44 41	<u>South of Fiji Islands</u> 25.75 S 179.95 E H = 18 25 33.4 h = 449.8 km MB = 5.4 D = 153.57 Az = 343 (NEIS)
	ePKP2	A 44 55	
7.	ePKHKP	A 19 55 14	<u>Tonga Islands Region</u> 17.99 S 172.59 W H = 19 35 32.2 h = 33 km MB=5.0 MS=4.5 D = 147.24 Az = 355 (NEIS) PKHKPV A 2.0s 59.9nm LmH C 20 0.1/um M = 4.5 LmV C 20 0.1/um 4.6
	ePKP2	A 55 17.5	
	LmH	C 21 07.5	
	LmV	C 09.9	
7.	eP	A 22 30 38	<u>Andreanof Islands, Aleutian Is.</u> 51.69 N 173.23 W H = 22 18 42.4 h = 33.5 km MB = 4.8 D = 77.96 Az = 357 (NEIS) h = 33 km PV A 1.0s 15.7nm M = 5.0
	epP	A 30 50	
7.	ePKHKP	A 24 16 19	<u>Samoa Islands Region</u> 16.42 S 172.64 W H = 23 56 45.6 h = 61.9 km MB = 4.4 D = 145.69 Az = 355 (NEIS) h = 57 km
	epPKP	A 16 34	
8.	ePKHKP	A 04 57 20.5	<u>Tonga Islands</u> 19.65 S 175.93 W H = 04 37 31.5 h = 33 km MB=5.0 MS=4.5 D = 148.49 Az = 351 (NEIS) PKHKPV A 1.6s 27.5nm LmH C 24 0.5/um M = 4.8 LmV C 24 0.3/um 5.0
	LmV	C 59.0	
	LmH	C 59.4	
8.	ePn	A 10 04 55	<u>Yugoslavia</u> 43.18 N 18.93 E H = 10 02 43.9 h = 33 km D = 8.99 Az = 329 (NEIS)
	eSn	A 06 38	
	eSg	A 07 30	

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Day	Phase	h m s	Remarks
8.	eP ABC	16 58 27.5	<u>Off Coast of Ecuador</u> 1.25 S 81.07 W
	ePP BC	17 02 00	H = 16 45 16.0 h = 26.7 km MB=5.1 MS=4.9
	eSKS BC	09 00	D = 92.67 Az = 40 (NEIS)
	eS BC	09 30	LmH B 24s 0.5/um M = 4.9
	ePS BC	10 40	LmV B 24 0.6/um 5.0
	eSS BC	15 55	
	LmH B	36.5	
LmV B	36.5		
8.	LmV C	18 51.2	<u>Off Coast of Ecuador</u> 1.23 S 81.10 W
	LmH C	51.5	H = 18 00 00.0 h = 41.6 km MB=5.1 MS=4.6
			D = 92.67 Az = 40 (NEIS) LmH C 24s 0.3/um M = 4.6 LmV C 24 0.4/um 4.8
8.	LmH B	20 16.7	<u>South of Honshu</u> 31.08 N 139.03 E
	LmV B	21.6	H = 19 24 53.9 h = 33 km MB = 4.6 (ISC) D = 86.3 or <u>South of Honshu</u> 30.95 N 139.0 E H = 19 26 31.1 h = 33 km MB = 4.2 (ISC) D = 86.4 LmH B 15.5s 1.6/um M = 5.5 LmV B 15 1.1/um 5.4
8.	eP A	21 12 56.5	<u>Jan Mayen Island Region</u> 71.51 N 12.47 W
	epP A	13 05.5	H = 21 07 47.4 h = 33 km MB=4.3 MS=4.4
	LmH B	22.5	D = 23.61 Az = 140 (NEIS)
	LmV B	23.1	LmH B 16s 0.4/um M = 3.9 LmV B 20 0.4/um 4.0
8.	ePn A	23 09 58.5	<u>Federal Republic of Germany</u>
	e A	10 05.5	49.87 N 7.60 E
	e A	10 10	H = 23 09 22.9 h = 33 km
	eSn A	10 27.5	D = 2.69 Az = 72 (ISC)
	eSg A	10 35	

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Day	Phase	h m s	Remarks
9.	eP A	07 42 53	<u>Fiji Islands Region</u> 17.68 S 178.52 W
			H = 07 24 15.5 h = 570.9 km MB = 4.8 D = 146.12 Az = 348 (NEIS) traces
9.	ePKIKP A	10 45 30	<u>Easter Island Cordillera</u>
	ePKHKP A	45 32	49.81 S 114.48 W H = 10 25 54.2 h = 33 km MB=5.2 MS=4.6 D = 146.14 Az = 67 (NEIS) PKHKPV A 1.4s 27.9nm
9.	eiP ABC	15 15 03	<u>East China Sea</u> 27.13 N 126.75 E
	esP AB	15 43	H = 15 02 44.6 h = 109 km MB = 5.4 (NEIS)
	eS C	25 10	D = 83.8 h = 108 km
	LmH C	50.8	PV A 1.8s 135.0nm M = 5.6
	LmV C	58.6	LmH C 20 0.7/um LmV C 14 0.5/um
10.	ePKHKP A	02 21 07	<u>Fiji Islands Region</u> 17.83 S 178.77 W
	ePKP2 A	21 09	H = 02 02 29.7 h = 568.6 km MB = 4.9 D = 146.22 Az = 348 (NEIS) PKHKPV A 1.0s 15.8nm PKP2V A 1.2 16.3nm
10.	e AB	22 47 19	<u>Halmahera</u> 0.98 S 127.35 E
	LmH B	23 43.6	H = 22 28 31.9 h = 20 km MB=5.6 MS=4.9
	LmV B	45.3	D = 106.83 Az = 323 (NEIS) LmH B 24s 0.35/um M = 4.9 LmV B 20 0.35/um 4.9
10.	eP A	24 12 20.5	<u>New Britain Region</u> 7.69 S 151.20 E
	epP A	12 31	H = 23 53 19.6 h = 25.3 km MB = 5.3 D = 125.65 Az = 329 (NEIS) h = 38 km
11.	eP A	03 36 27	<u>Molucca Passage</u> 2.00 N 126.88 E
			H = 03 22 25.2 h = 77.5 km MB = 5.7 D = 104.17 Az = 324 (NEIS)

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Day	Phase	h m s	Remarks
11.	e	A 11 25 13	<u>West Poland</u> (CLL, VIE)
11.	ePKHKP	A 14 18 56	<u>South of Fiji Islands</u> 23.37 S 179.96 E
	ePKP2	A 19 07	H = 14 00 03.9 h = 545.3 km MB = 4.6
	epPKHKP	A 21 05	D = 151.30 Az = 344 (NEIS)
			h = 573 km
			PKHKPV A 1.3s 13.1nm
11.	LmV	C 23 53.0	<u>Solomon Islands</u> 10.24 S 160.95 E
	LmH	C 53.2	H = 22 34 00.2 h = 51 km MB = 5.2 (NEIS)
			D = 132.5
			LmH C 20s 0.3/um M = 4.9
			LmV C 24 0.3/um 5.0
11.	LmV	C 24 08.8	<u>Western Iran</u> 33.23 N 48.00 E
	LmH	C 09.0	H = 23 46 16.7 h = 33 km MB = 4.8 (NEIS)
			D = 31.8
			LmH C 24s 0.5/um M = 4.1
			LmV C 24 0.3/um 4.0
12.	epPKHKP	A 00 32 07	<u>Tonga Islands Region</u> 22.30 S 175.61 W
	epPKP2	A 32 16	H = 00 11 56.6 h = 33 km MB = 4.8 (NEIS)
			D = 151.1 h = 71 km
12.	eP	A 02 01 40.5	<u>Near Coast of Southern Chile</u>
	LmH	B 55.7	46.35 S 73.91 W
	LmV	B 55.7	H = 01 42 48.2 h = 33 km
			MB = 4.9 MS = 5.0 (NEIS)
			D = 121.5
			LmH B 19s 0.6/um M = 5.3
			LmV B 18 0.6/um 5.3
12.	eP	A 08 23 08	<u>Mindoro, Philippine Islands</u>
	ePP	A 26 48	13.03 N 121.71 E
	LmH	B 09 11.2	H = 08 09 52.9 h = 33.3 km MB=5.4 MS=4.8
	LmV	B 11.5	D = 92.32 Az = 323 (NEIS)
			PV A 1.4s 32.6nm M = 5.6
			LmH B 16 1.3/um 5.5
			LmV B 16 1.2/um 5.4

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Day	Phase	h m s	Remarks
12.	eP	A 08 23 08	<u>Mindoro, Philippine Islands</u>
	ePP	A 26 48	13.03 N 121.71 E
	LmH	B 09 11.2	H = 09 09 52.9 h = 33.3 km MB=5.4 MS=4.8
	LmV	B 11.5	D = 92.32 Az = 323 (NEIS)
			PV A 1.4s 32.6nm M = 5.6
			LmH B 16 1.3/um 5.5
			LmV B 16 1.2/um 5.4
12.	ePKP	A 10 33 20	<u>Fiji Islands</u> 16.35 S 178.49 E
			H = 10 13 54.1 h = 33 km MB = 4.8
			D = 144.20 Az = 346 (NEIS)
12.	-iP	ABC 11 29 02	<u>Northeastern China</u> 39.27 N 117.71 E
	epP	A 29 07.5	H = 11 17 53.1 h = 22.3 km MB=5.8 MS=5.4
	eS	BC 38 10	D = 69.57 Az = 319 (NEIS)
	eSS	B 42 50	h = 23 km
	LmH	B 56.9	PV A 1.6s 132.0nm M = 5.8
	LmV	B 12 01.5	LmH B 19 28.3/um 6.5
			LmV B 14 6.7/um 6.1
12.	eP	A 12 30 58	<u>Burma</u> 21.75 N 92.99 E
	epP	A 31 09	H = 12 20 00.7 h = 40 km MB=5.4 MS=5.7
	eS	BC 39 40	D = 68.11 Az = 317 (NEIS)
	ePKPPKP	A 59 19	h = 38 km
	LmH	B 58.8	PV A 1.7s 75.8nm M = 5.5
	LmV	B 13 05.6	LmH B 28 15.1/um 6.1
			LmV B 16 3.4/um 5.7
12.	eP	A 14 14 01.5	<u>Luzon, Philippine Islands</u>
	ePP	A 17 36	16.00 N 121.15 E
	eSKS	C 24 15	H = 14 00 57.0 h = 16.3 km MB=5.0 MS=4.9
	ePS	C 26 00	D = 89.63 Az = 323 (NEIS)
	eSS	C 31 00	PV A 1.0s 19.7nm M = 5.3
	LmH	B 50.8	LmH B 17.5 2.8/um 5.8
	LmV	B 55.0	LmV B 18 2.3/um 5.7
12.	ePKHKP	A 15 44 19	<u>Fiji Islands Region</u> 18.21 S 177.63 W
			H = 15 25 46.2 h = 628.5 km MB = 4.8

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Day	Phase	h m s	Remarks
cont. 12.	ePKP2 A	15 44 22	D = 146.81 Az = 349 (NEIS) PKHKPV A 1.2s 32.5nm
12.	eP A	17 57 43.5	<u>Sicily</u> 38.44 N 14.78 E H = 17 54 47.1 h = 33 km D = 12.41 Az = 351 (NEIS)
12.	eP A	21 49 01	<u>Kurile Islands</u> 50.16 N 154.99 E H = 21 37 33.4 h = 126.1 km MB = 5.3 D = 74.82 Az = 337 (NEIS) PV A 1.0s 47.2nm M = 5.2
13.	eP A	01 38 55	<u>Near East Coast of Honshu, Japan</u> 38.29 N 141.93 E H = 01 26 43.0 h = 49.7 km MB=4.9 MB=3.8 D = 81.28 Az = 331 (NEIS) PV A 1.4s 18.6nm M = 4.9
13.	epP LmH LmV	A B B 02 29 11.5 03 14.7 19.0	<u>Mindoro, Philippine Islands</u> 13.01 N 121.69 E H = 02 15 55.1 h = 38.8 km MB = 5.2 D = 92.32 Az = 323 (NEIS) h = 30 km LmH B 18s 0.4/um M = 5.0 LmV B 14 0.7/um 5.3
13.	-iP epP esP ePP ePP eS ePS esS esPS eSS ePKKP esSS ePKPKP	ABC BC BC ABC BC BC BC BC BC BC A BC A	<u>Bonin Islands Region</u> 28.42 N 139.50 E H = 11 13 31.2 h = 430 km MB = 5.8 D = 88.81 Az = 330 (NEIS) h = 400 km PV A 1.3s 262.0nm M = 5.9 PV B 8 2.4/um 6.1 LmH B 17 4.0/um LmV B 14 4.2/um

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Day	Phase	h m s	Remarks
cont. 13.	LmH LmV	B B 12 04.6 13.4	
13.	ePg iSn iSg	A A A 15 26 42 27 08 26 25	D c. 3.2
13.	eP epP eSS LmH LmV	A A C B B 18 21 11 21 18 24 08 26.1 27.4	<u>Aegean Sea</u> 39.11 N 23.46 E H = 18 17 46.1 h = 12 km (NEIS) D = 14.3 h = 25 km LmH B 16s 5.4/um M = 4.7 LmV B 12 3.0/um
13.	ePKHKP epPKP	A A 20 00 51 03 09	<u>South of Fiji Islands</u> 22.42 S 179.64 W H = 19 42 07.8 h = 626.8 km MB = 4.8 D = 150.48 Az = 345 (NEIS) h = 622 km PKHKPV A 1.3s 21.8nm pPKPV A traces
14.	ePn ePg eSn eSg LmH LmV	A A A A B B 03 41 18 42 02 42 51 43 48 44.6 44.7	<u>Yugoslavia</u> 43.15 N 16.03 E H = 03 39 22.1 h = 47.2 km MB = 4.7 D = 8.09 Az = 340 (NEIS) PV A 0.5s 65.5nm M = 5.8 LmH B 10 0.8/um 3.7 LmV B 11 1.1/um
14.	epP LmV LmH	A B B 06 18 02.5 51.1 53.0	<u>Off Coast of Ecuador</u> 1.49 N 85.27 W H = 06 04 39.7 h = 33 km MB=5.2 MS=5.7 D = 93.23 Az = 39 (NEIS) h = 37 km LmH B 21.5s 3.1/um M = 5.7 LmV B 23 1.7/um 5.5
14.	eP LmH	A B 07 12 07 46.6	<u>Off Coast of Ecuador</u> 1.62 N 85.26 W H = 06 58 49.9 h = 33 km MB=5.1 MS=5.5 D = 93.13 Az = 39 (NEIS) traces LmH B 24s 2.9/um M = 5.7

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Day	Phase	h m s	Remarks
cont. 14.	LmV B	07 46.8	LmV B 24s 3.3/um M = 5.7
14.	eSg A	20 38 57	West Poland (CLL)
14.	eP A	21 40 39	<u>Hokkaido, Japan Region</u> 41.11 N 143.70 E H = 21 28 33.5 h = 25.6 km MB = 4.8 D = 79.47 Az = 331 (NEIS)
14.	eP A	21 48 47	<u>Turkey</u> 38.77 N 40.02 E H = 21 43 38.1 h = 10 km MB = 4.7
	eS B	53 08	D = 23.26 Az = 310 (NEIS)
	LmH B	22 00.6	LmH B 16s 0.7/um M = 4.2
	LmV B	00.7	LmV B 16 0.4/um 4.1
15.	eP A	00 32 17	<u>Northwest of Kurile Islands</u>
	epP A	33 11	49.59 N 152.91 E H = 00 20 59.6 h = 221.3 km MB = 5.0 D = 74.80 Az = 336 (NEIS) h = 243 km PV A 1.5s 30.2/um M = 4.9
15.	eP A	04 25 17	<u>Sudan</u> 17.85 N 36.84 E
	epP A	25 30	H = 04 17 57.5 h = 33 km MB = 4.3 (NEIS) D = 38.4 h = 48 km
15.	eP A	14 10 13	<u>Mid - Indian Rise</u> 12.25 S 65.35 E H = 13 58 15.5 h = 33 km MB = 4.9 D = 78.14 Az = 328 (NEIS)
15.	eSg A	15 46 25	<u>Adria (VIE)</u>
15.	eP A	16 02 39.5	<u>Fox Islands, Aleutian Is.</u>
	eS BC	12 20	52.45 N 168.03 W
	LmV B	47.7	H = 15 50 47.1 h = 33 km MB=5.3 MS=4.7
	LmH B	48.8	D = 77.28 Az = 0 (NEIS) PV A 1.3s 56.8nm M = 5.4 LmH B 16 0.4/um 4.8 LmV B 16 0.6/um 5.1

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Day	Phase	h m s	Remarks
15.	eP A	18 51 10	<u>Mid - Indian Rise</u> 11.62 S 65.62 E
	epP A	51 16	H = 18 39 14.5 h = 33 km MB = 4.9 D = 77.74 Az = 328 (NEIS) h = 26 km PV A 1.3s 17.5nm M = 4.9
15.	eP A	19 32 27.5	<u>Mid - Indian Rise</u> 12.04 S 65.99 E
	epP A	32 33	H = 19 20 29.3 h = 33 km MB=4.8 MS=4.9 D = 78.29 Az = 328 (NEIS) h = 24 km
15.	eP A	22 05 20	<u>Near West Coast of Colombia</u>
			6.21 N 77.51 W H = 21 52 43.9 h = 8.9 km MB=4.9 MS=3.6 D = 84.70 Az = 40 (NEIS)
15.	ePKIKP A	23 31 39	<u>Fiji Islands Region</u> 19.13 S 177.67 W
	iPKHKP A	31 43	H = 23 12 53.6 h = 498.8 km MB = 5.5
	iPKP2 A	31 46.5	D = 147.70 Az = 349 (NEIS)
	epPKP ABC	33 39	h = 535 km
	ePP A	35 11	PKIKPV A 2.0s 59.9nm PKHKPV A 1.8 210.0nm PKP2V A 1.8 122.0nm
16.	eP A	08 20 16.5	<u>Crete</u> 35.38 N 26.52 E
	LmH B	30.0	H = 08 16 00.6 h = 46.7 km MB = 4.3
	LmV B	30.0	D = 18.70 Az = 329 (NEIS) PV A 1.8s 33.8nm M = 4.2
16.	ePKHKP A	11 34 01.5	<u>New Hebrides Islands</u> 17.42 S 167.92 E
	LmH B	12 34.5	H = 11 14 30.7 h = 29.7 km MB=5.1 MS=5.3
	LmV B	44.3	D = 141.82 Az = 336 (NEIS) LmH B 20s 0.4/um M = 5.1 LmV B 16 0.4/um 5.3
16.	LmH B	16 44.9	<u>Near Coast of Guerrero, Mexico</u>
	LmV B	46.3	16.93 N 100.01 W H = 15 47 55.4 h = 33 km MB = 4.4 (NEIS) D = 90.1

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Day	Phase	h m s	Remarks
cont. 16.			LmH B 13s 0.9/um M = 5.4 LmV B 12 0.9/um 5.4
16.	eP A eS BC LmH B LmV B	16 52 47 57 00 17 02.7 04.3	<u>Iceland Region</u> 63.86 N 22.43 W H = 16 47 48.6 h = 10 km MB = 4.6 MS = 4.8 (NEIS) D = 22.2 PV A 1.4s 23.3nm M = 4.4 LmH B 13 2.0/um 4.7 LmV B 13 2.3/um 4.9
16.	eP A	17 03 15	<u>Iceland Region</u> 63.93 N 22.88 W H = 16 58 11.8 h = 10 km MB = 4.1 D = 22.54 Az = 110 (NEIS)
17.	eP A	14 27 55.5	<u>Panama</u> 7.36 N 78.03 W H = 14 15 21.9 h = 8.3 km MB=5.1 MS=4.5 D = 84.15 Az = 40 (NEIS)
18.	+iP A epP A LmH B LmV B	04 08 15 08 56 51.4 52.6	<u>Kamchatka</u> 55.71 N 160.82 E H = 03 57 13.4 h = 158 km MB = 5.1 D = 70.96 Az = 340 (NEIS) h = 173 km PV A 1.1s 68.6nm M = 5.4 LmH B 16 0.35/um 4.7 LmV B 16 0.5/um 4.9
18.	+iPKP A epPKP A esPKP A	07 02 29 03 23.5 03 44	<u>New Hebrides Islands</u> 19.00 S 169.19 E H = 06 43 21.1 h = 217 km MB = 5.2 D = 143.74 Az = 336 (NEIS) h = 224 km PKPV A 1.4s 111.8nm
18.	ePg A eSg A	13 04 36.5 04 57	<u>Czechoslovakia</u> 50.56 N 14.01 E Explosion of 14 t H = 13 04.0 (KHC) D = 1.5

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Day	Phase	h m s	Remarks
19.	eP A epP A	00 15 18 15 30	<u>Southern Iran</u> 29.79 N 51.20 E H = 00 08 15.5 h = 39.7 km MB = 4.9 D = 36.13 Az = 317 (NEIS) h = 59 km
19.	ePKHKP A	00 29 18	<u>Fiji Islands Region</u> 20.31 S 178.32 W H = 00 10 32.2 h = 558.4 km MB = 4.2 D = 148.72 Az = 348 (NEIS) traces
19.	LmV B LmH B	18 07.6 08.8	<u>South Sandwich Islands Region</u> 60.35 S 26.56 W H = 17 02 53.0 h = 33 km MB = 5.2 (NEIS) D = 114.8 LmH B 16s 0.3/um M = 5.0 LmV B 16 0.4/um 5.1
19.	LmH B LmV B	18 40.3 40.3	<u>South Sandwich Islands Region</u> 60.62 S 26.75 W H = 17 35 15.0 h = 33 km MB = 5.1 (NEIS) D = 115 LmH B 18s 0.5/um M = 5.2 LmV B 18 0.7/um 5.3
19.	ePKHKP A epPKP A	19 07 38 09 51.5	<u>Fiji Islands Region</u> 19.14 S 177.79 W H = 18 48 57.2 h = 586.3 km MB = 4.7 D = 147.69 Az = 349 (NEIS) h = 600 km
19.	eP A eS BC LmH B LmV B	23 06 09 12 18 26.3 27.8	<u>Southern Iran</u> 27.12 N 55.32 E H = 22 58 30.8 h = 29.5 km MB = 5.2 D = 40.54 Az = 317 (NEIS) PV A 1.8s 60.8nm M = 5.0 LmH B 16 0.6/um 4.5 LmV B 17 0.6/um 4.6

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Day	Phase	h m s .	Remarks
19.	eP A	23 12 31	<u>Southern Iran</u> 27.14 N 55.31 E H = 23 04 53.6 h = 35.2 km MB = 5.3 D = 40.53 Az = 317 (NEIS) PV A 1.4s 32.6nm M = 4.9
20.	ePKHKP A ePKP2 A	14 30 41 30 46	<u>Fiji Islands Region</u> 20.36 S 177.74 W H = 14 11 52.3 h = 533.5 km MB = 5.0 D = 148.89 Az = 348 (NEIS) PKHKPV A 1.4s 37.2nm
20.	ePKIKP A ePKHKP A ePKP2 A	21 24 43 24 51 25 02	<u>South of Fiji Islands</u> 23.87 S 176.56 W H = 21 04 58.0 h = 48 km MB=5.6 MS=4.5 D = 152.52 Az = 349 (NEIS) PKHKPV A 1.2s 32.6nm
20.	eP ABC epP A ePP ABC eSKS BC eSKKS BC eS BC ePS BC LmH B LmV B	23 04 29 04 39 08 10 15 10 15 30 15 45 17 00 52.6 54.9	<u>Southern Sumatra</u> 4.44 S 101.98 E H = 22 51 13.9 h = 37 km MB=5.7 MS=5.3 D = 93.63 Az = 320 (NEIS) h = 36 km PV A 1.8s 47.4nm M = 5.6 LmH B 22 0.9/um 5.2 LmV B 20 0.9/um 5.2
21.	LmH B LmV B	01 16.0 16.0	<u>California - Nevada Border Region</u> 37.59 N 118.74 W H = 00 28 19.8 h = 5 km (NEIS) D = 81.9 LmH B 18s 0.6/um M = 5.0 LmV B 20 0.9/um 5.2
21.	eP ABC epP A ePP ABC epPP BC eSKS BC eS BC	05 48 00 48 49 51 35 52 15 58 12 58 34	<u>Luzon, Philippine Islands</u> 15.70 N 120.82 E H = 05 35 22.5 h = 189 km MB = 5.7 D = 89.68 Az = 323 (NEIS) h = 200 km PV A 1.2s 81.3nm M = 5.5

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Day	Phase	h m s	Remarks
cont. 21.	eSP BC ePS B eSS BC LmH B LmV B	05 59 36 06 00 00 04 36 28.8 28.9	LmH B 16s 2.8/um LmV B 19 2.9/um
21.	eP A	10 39 44.5	<u>Mid-Indian Rise</u> 8.63 S 67.45 E H = 10 27 57.0 h = 33 km MB = 4.6 D = 76.20 Az = 327 (NEIS) traces
21.	eP A ePP A	13 53 16.5 56 52	<u>Bonin Islands Region</u> 27.58 N 139.99 E H = 13 40 55.0 h = 340 km MB = 5.1 D = 89.75 Az = 330 (NEIS) PV A 1.5s 40.2nm M = 5.1 PPV A 1.8 60.9nm 5.4
21.	LmV C LmH C	15 04.9 05.0	<u>Near Coast of Ecuador</u> 1.59 S 80.91 W H = 14 14 41.3 h = 47.7 km MB=5.0 MS=4.7 D = 92.8 (NEIS) LmH C 24s 0.2/um M = 4.5 LmV C 24 0.3/um 4.7
22.	ePKHKP A ePKP2 A epPKP A	23 46 09 46 13.5 47 37	<u>Fiji Islands Region</u> 19.52 S 177.25 W H = 23 27 03.8 h = 350 km MB = 5.2 D = 148.16 Az = 349 (NEIS) h = 375 km
23.	ePKHKP A	12 32 18.5	<u>Fiji Islands Region</u> 17.76 S 178.46 W H = 12 13 40.3 h = 571.1 km MB = 5.0 D = 146.21 Az = 348 (NEIS) traces
23.	+iP A epP A LmV B LmH B	22 08 40 08 51 54.6 54.8	<u>Northern Sumatra</u> 0.67 N 98.68 E H = 21 55 54.1 h = 40 km MB=5.5 MS=4.7 D = 87.62 Az = 320 (NEIS) h = 39 km PV A 1.5s 85.4nm M = 5.8 LmV B 20 0.3/um 4.7 LmH B 20 0.3/um 4.7

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Day	Phase	h m s	Remarks
24.	eP	A 07 59 27	<u>Volcano Islands Region</u> 25.47 N 142.51 E H = 07 46 13.5 h = 8.6 km MB=5.7 MS=5.3 D = 92.69 Az = 331 (NEIS) PV A 1.2s 32.5nm M = 5.6 LmH B 14.5 0.8/um 5.3 LmV B 15 0.7/um 5.3
	ePP	A 03 13	
	LmH	B 08 41.3	
	LmV	B 47.1	
24.	eP	ABC 10 36 45	<u>Mariana Islands</u> 18.81 N 145.35 E H = 10 23 23.4 h = 207 km MB = 5.7 D = 99.77 Az = 332 (NEIS) h = 228 km LmH B 18s 4.6/um LmV B 16 2.5/um
	epP	ABC 37 37	
	ePP	BC 40 48	
	epPP	BC 41 30	
	esPP	BC 41 48	
	eSKS	BC 47 00	
	eS	BC 47 50	
	e	BC 48 34	
	ePKKP	A 53 04.5	
	eSS	BC 54 50	
	esSS	BC 56 20	
	LmH	B 11 19.2	
	LmV	B 28.2	
24.	eP	A 12 51 06.5	<u>Southern Iran</u> 27.11 N 55.45 E H = 12 43 28.7 h = 44.8 km MB = 4.8 D = 40.63 Az = 317 (NEIS) PV A 2.0s 25.6nm M = 4.6
24.	eP	A 13 06 51	<u>Southern Iran</u> 27.07 N 55.48 E H = 12 59 09.3 h = 27.5 km MB = 4.7 D = 40.68 Az = 317 (NEIS)
25.	ePKP	A 05 37 03	<u>Fiji Islands Region</u> 16.79 S 177.30 W H = 05 17 25.9 h = 41.7 km MB = 4.6 D = 145.47 Az = 350 (NEIS) LmH C 28s 0.4/um M = 4.9 LmV C 32 0.5/um 5.1
	LmV	C 06 30.4	
	LmH	C 31.0	
25.	ePKHKP	A 06 09 23	<u>Fiji Islands Region</u> 17.00 S 177.06 W H = 05 49 46.6 h = 41.9 km MB=4.7 MS=5.0 D = 145.72 Az = 350 (NEIS) h = 36 km
	epPKP	A 09 36	

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Day	Phase	h m s	Remarks
25.	ePKP	ABC 06 41 44	<u>Fiji Islands Region</u> 17.02 S 177.02 W H = 06 22 04.4 h = 33 km MB=4.9 MS=5.0 D = 145.75 Az = 350 (NEIS) LmH C 32s 0.6/um M = 5.1 LmV C 32 0.5/um 5.1
	LmV	C 07 35.0	
	LmH	C 35.3	
25.	eP	ABC 11 08 21.5	<u>Iran</u> 34.89 N 52.06 E H = 11 01 45.5 h = 25.9 km MB=5.4 MS=4.3 D = 33.14 Az = 311 (NEIS) PV A 1.1s 24.2nm M = 5.0 LmH B 15 0.5/um 4.3 LmV B 14 0.5/um 4.5
	LmH	B 24.8	
	LmV	B 25.4	
25.	ePKP	A 12 28 37	<u>Fiji Islands Region</u> 17.86 S 178.62 W H = 12 10 01.2 h = 578 km MB = 5.4 D = 146.28 Az = 348 (NEIS) PKPV A 1.6s 99.0nm
25.	+iP	ABC 15 08 06	<u>Northern Sumatra</u> 4.24 N 95.77 E H = 14 55 45.0 h = 56 km MB = 5.9 D = 83.04 Az = 320 (NEIS) h = 59 km PV A 1.4s 121.0nm M = 5.7 LmH B 18 2.1/um 5.5 LmV B 17 2.1/um 5.6
	ipP	ABC 08 21	
	ePP	BC 11 12	
	eS	BC 18 20	
	ePS	BC 19 15	
	ePPS	BC 19 40	
	eSS	BC 23 48	
	LmV	B 52.2	
	LmH	B 54.8	
25.	eP	A 17 12 18.5	<u>Southern Nevada</u> 37.09 N 116.05 W H = 17 00 00.1 h = 0 km MB = 5.3 D = 81.25 Az = 31 (NEIS)
25.	eP	A 21 13 54	<u>Southern Iran</u> 29.34 N 53.39 E H = 21 06 38.3 h = 22.4 km MB = 4.8 D = 37.77 Az = 316 (NEIS) traces

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Day	Phase	h m s	Remarks
25.	eP A	23 09 30.5	<u>Queen Elizabeth Islands</u> 77.53 N 105.19 W H = 23 01 06.5 h = 33 km MB = 4.4 D = 46.34 Az = 52 (NEIS)
26.	eP ABC	01 40 43.5	<u>Turkey - Iran Border Region</u> 38.93 N 44.38 E H = 01 35 13.8 h = 36.7 km MB=5.2 MS=5.4 D = 25.82 Az = 308 (NEIS)
	eS BC	45 15	
	eSS BC	46 00	
	eSSS BC	46 40	
	LmH B	54.5	PV A 1.5s 40.2nm M = 4.8
	LmV B	55.3	LmH B 13 6.1/um 5.3 LmV B 12.5 5.1/um 5.4
26.	eP BC	06 32 58	<u>Off Coast of Ecuador</u> 1.85 S 81.20 W H = 06 19 40.8 h = 10.1 km MB=5.0 MS=5.1 D = 93.21 Az = 40 (NEIS)
	ePP BC	36 36	
	eSKS BC	43 32	
	eS BC	44 08	PV B traces
	ePS BC	45 14	LmH B 16s 0.3/um M = 4.9
	LmV B	07 17.0	LmV B 18 0.6/um 5.1
	LmH B	17.4	
26.	eP A	09 55 53	<u>N. W. Iran - USSR Border Region</u> 38.96 N 44.38 E H = 09 50 24.6 h = 41 km MB=4.8 MS=3.5 D = 25.80 Az = 308 (NEIS)
	ePP A	56 30	
	LmV C	10 07.5	LmH C 20s 0.3/um M = 3.8
	LmH C	07.7	LmV C 20 0.4/um 4.1
26.	eP A	22 47 09	<u>Southern Iran</u> 27.65 N 56.55 E H = 22 39 29.1 h = 38.8 km MB = 4.8 D = 40.91 Az = 317 (NEIS)
	ePcP A	49 10	
	eS C	53 16	
	LmH B	23 11.0	LmH B 16s 0.2/um M = 4.1
	LmV B	13.8	LmV B 16 0.2/um 4.2
	ePKPPKP A	18 48.5	
27.	eP A	02 40 25	<u>Tadzhik SSR</u> 37.64 N 72.25 E H = 02 32 25.9 h = 122.7 km MB = 4.9 D = 44.21 Az = 307 (NEIS)

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Day	Phase	h m s	Remarks
27.	iPg A	08 24 21	<u>Czechoslovakia</u> 50.61 N 14.10 E H = 08 23 49.8 h = 0 km D = 1.58 Az = 272 (ISC) Explosion of 20.6 tons
	iSg A	24 41	
27.	ePKP A	09 40 16	<u>Samoa</u> 16.3 S 172.9 W H = 09 20 38.2 h = 33 km MB = 4.7 D = 145.55 Az = 355 (ISC)
27.	eP A	22 36 05.5	<u>Crete</u> 35.23 N 26.50 E H = 22 31 49.1 h = 68.2 km MB = 4.7 D = 18.81 Az = 330 (NEIS)
	LmV B	45.6	
	LmH B	46.3	PV A 0.8s 30.8nm M = 4.6 LmH B 12 0.3/um 3.8 LmV B 12 0.4/um 4.1
27.	ePKIKP A	23 17 23	<u>Solomon Islands</u> 9.41 S 159.02 E H = 22 58 13.3 h = 33 km MB=5.3 MS=4.9 D = 130.88 Az = 333 (NEIS)
	LmH B	24 08.4	PKIKPV traces
	LmV B	16.6	LmH B 20s 0.45/um M = 5.1 LmV B 20 0.5/um 5.2
28.	LmH B	03 38.7	<u>Mindanao, Philippine Islands</u> 6.34 N 123.96 E H = 02 41 32.9 h = 48 km MB = 5.1 MS = 4.5 (NEIS) D = 99.0
	LmV B	49.3	LmH B 19s 0.6/um M = 5.1 LmV B 16 0.6/um 5.2
28.	e A	06 05 56	<u>Sulawesi</u> 1.73 S 120.52 E H = 05 51 48.1 h = 54 km MB = 5.9 MS = 5.8 (NEIS) D = 103.3
	e A	09 06	
	ePP B	10 16	
	eSKS B	16 30	
	eS B	17 30	LmH B 23s 5.2/um M = 6.0
	ePS B	19 15	LmV B 24 3.7/um 5.8
	eSS B	24 48	
	LmH B	51.6	
	LmV B	53.4	

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Day	Phase	h m s	Remarks
28.	ePKIKP A	15 30 12	<u>Ballynny Islands Region</u> 64.94 S 175.69 E H = 15 10 13.0 h = 33 km MB=5.7 MS=5.4 D = 163.42 Az = 218 (NEIS) LmH B 20s 0.6/um M = 5.3 LmV B 20 0.9/um 5.6
	ePKHKP A	30 32	
	ePKP2 A	31 03	
	LmH B	16 45.5	
	LmV B	46.9	
29.	eP A	02 30 49	<u>Near Coast of Pakistan</u> 23.37 N 64.55 E H = 02 22 03.8 h = 33 km MB=4.9 MS=4.5 D = 48.95 Az = 318 (NEIS) PV A 1.3s 13.1nm M = 4.8 LmH B 14 0.4/um 4.6 LmV B 14 0.4/um 4.6
	eS BC	38 00	
	LmH B	58.8	
	LmV B	59.8	
	+iP AB	03 04 48.5	
29.	ePn A	06 27	<u>Eastern Kazakh SSR</u> 49.94 N 78.85 E H = 02 56 57.8 h = 0 km MB=5.6 MS=5.0 D = 41.60 Az = 298 (NEIS) Underground nuclear explosion (ERDA) PV A 1.2s 183.0nm M = 5.7 LmH, LmV traces
	LmH B	23.1	
	LmV B	23.3	
	ePKP2 A	03 41 13	
	LmH B	05 15.0	
29.	LmV B	15.2	<u>South of Kermadec Islands</u> 34.69 S 179.05 W H = 03 20 28.2 h = 33 km MB = 5.5 MS = 5.1 (NEIS) D = 162.2 PKP2V A 1.5s 25.2nm LmH B 20 0.3/um M = 5.1 LmV B 20 0.4/um 5.2
	eP A	16 43 32	
	epP A	43 38	
	LmV B	54.5	
	LmH B	54.7	
29.	eP A	16 43 32	<u>Azores Islands Region</u> 40.49 N 29.54 W H = 16 37 20.5 h = 11.9 km MB=4.7 MS=4.6 D = 30.19 Az = 56 (NEIS) h = 30 km PV A 1.4s 27.9nm M = 4.9 LmH B 16 0.3/um 4.0 LmV B 18 0.5/um 4.3
	epP A	43 38	
	LmV B	54.5	
	LmH B	54.7	
	eP A	00 35 48	
30.	LmV B	01 12.1	<u>Honshu, Japan</u> 36.69 N 138.38 E H = 00 23 28.7 h = 7 km MB = 5.0 D = 81.23 Az = 329 (NEIS) LmH B 12s 0.3/um M = 4.8 LmV B 12 0.2/um 4.7
	LmH B	13.2	
	LmV B	12 0.2/um 4.7	

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Day	Phase	h m s	Remarks
30.	+iP ABC	15 27 54.0	<u>Fox Islands, Aleutian Is.</u> 52.43 N 169.71 W H = 15 16 01.6 h = 33 km MB=5.6 MS=6.0 D = 77.30 Az = 359 (NEIS) PV A 1.1s 80.6nm M = 5.7 LmH B 18 3.6/um 5.8 LmV B 18 4.5/um 5.9
	ePcP A	28 02	
	eS BC	37 52	
	ePS BC	38 40	
	eSS C	42 48	
	eSSS BC	47 10	
	eSSSS BC	48 30	
	ePKKS C	50 25	
	LmV B	16 11.3	
	LmH B	11.6	
30.	ePKHKP A	19 30 17	<u>Fiji Islands Region</u> 19.75 S 177.52 W H = 19 11 32.4 h = 564.4 km MB = 4.5 D = 148.33 Az = 349 (NEIS)
	eP A	07 46 13	
31.	eP A	07 46 13	<u>Hindu Kush Region</u> 36.24 N 69.56 E H = 07 38 23.5 h = 138.5 km MB = 4.7 D = 43.36 Az = 308 (NEIS) PV A 1.0s 11.8nm M = 4.5
	ePKIKP A	15 07 07	
	epPKIKP A	07 43	
31.	e Pg A	18 12 20	<u>Santa Cruz Islands</u> 11.81 S 166.51 E H = 14 47 59.1 h = 138 km MB = 5.6 D = 136.16 Az = 337 (NEIS) h = 145 km PKIKPV A 1.6s 33.0nm
	eSg A	12 40	
	e PKIKP B	09 44	
31.	ePg A	18 12 20	<u>Czechoslovakia</u> 49.8 N 13.9 E H = 18 11 52 h = 33 km D = 1.69 Az = 300 (ISC)
	eSg A	12 40	
31.	ePKP2 A	19 11 52	<u>Off E. Coast of N. Island N. Z.</u> 37.85 S 177.35 E H = 18 51 07.1 h = 125 km MB = 5.2 (NEIS) D = 164
	ePKP2 A	19 11 52	

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Day	Phase	h m s	Remarks
1.	ePKHKP LmV LmH	A B B	09 17 19.5 10 25.3 25.4
			<u>Tonga Islands</u> 21.19 S 174.37 W H = 08 57 30.9 h = 33 km MB=5.2 MS=5.2 D = 150.23 Az = 352 (NEIS) PKHKPV A 2.6s 121.2nm LmH B 20 0.5/um M = 5.2 LmV B 20 0.7/um 5.4
1.	-1P e1S eScP LmH LmV	AB B A B B	12 59 20 13 03 00 07 03 07.8 09.6
			<u>Turkey</u> 36.24 N 31.34 E H = 12 54 49.2 h = 66.6 km MB = 5.7 D = 20.22 Az = 322 (NEIS) PV A 1.5s 1130.7nm M = 5.9 PV B 2.5 2.4/um 6.0 SH B 7 7.0/um 6.0 PcSV A 1.6 104.4nm LmH B 15.5 11.3/um LmV B 14 6.9/um
2.	ePn eSg	A A	01 52 36.5 53 15
			<u>West Poland (CLL)</u> D c. 2.4
2.	ePn ePb ePg e eSn eSg	A A A A A A	13 33 00.5 33 07.5 33 15.5 33 22 33 41.5 33(53)
			<u>Müneburger Heide, Fed. Rep. of Germany</u> 53.07 N 9.55 E H = 13 32 14.8 h = 0 km D = 2.74 Az = 151 (NEIS)
2.	+eP eS LmH LmV	AB C C C	15 00 15 04 12 09.4 09.4
			<u>Iceland</u> 63.67 N 19.03 W H = 14 55 31.9 h = 10 km MB=4.9 MS=5.0 D = 20.86 Az = 114 (NEIS) PV A 1.8s 101.3nm M = 4.9 LmH C 16 9.6/um 5.3 LmV C 16 6.3/um 5.3
2.	eP	A	17 24 45
			<u>Dodecanese Islands</u> 35.20 N 27.68 E H = 17 20 19.5 h = 33 km MB = 4.3 D = 19.34 Az = 328 (NEIS) PV A 1.0s 39.4nm M = 4.6

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Day	Phase	h m s	Remarks
2.	eP	A	19 13 01
			<u>Dodecanese Islands</u> 35.07 N 27.61 E H = 19 08 29.7 h = 33 km MB = 3.9 D = 19.42 Az = 328 (NEIS)
3.	eP e ePP ePcP eS LmH LmV	AB A A A C B B	01 13 19.5 13 28 15 02 15 17 19 42 32.3 33.2
			<u>Tadzhik SSR</u> 39.87 N 71.79 E H = 01 05 23.7 h = 24 km MB=5.1 MS=5.0 D = 42.60 Az = 305 (NEIS) PV A 1.6s 27.5nm M = 4.7 LmH B 15 4.0/um 5.4 LmV B 12 3.1/um 5.5
3.	eP	A	02 33 10
			<u>Off East Coast of Kamchatka</u> 52.15 N 159.05 E H = 02 21 36.8 h = 33 km MB = 4.7 D = 73.94 Az = 339 (NEIS) PV A 1.3s 17.5nm M = 4.9
3.	+iP epP esPP eS esS eSS e LmH LmV	AB B B B B B B B B B	02 38 53 39 36 41 44 45 08 46 20 48 20 49 00 03 00.0 00.0
			<u>Hindu Kush Region</u> 36.44 N 70.76 E H = 02 31 04.7 h = 210 km MB = 5.5 D = 44.0 Az = 308 (NEIS) h = 203 km PV A 2.0s 521.0nm M = 5.7 PV B 4 1.9/um 5.9
3.	ePKHKP	A	14 51 47.5
			<u>Fiji Islands Region</u> 18.94 S 177.63 W H = 14 33 07.0 h = 573.1 km MB = 5.3 D = 147.52 Az = 349 (NEIS)
3.	ePKIKP LmH LmV	A C C	15 36 48 16 39.8 39.8
			<u>New Hebrides Islands</u> 14.15 S 166.56 E H = 15 17 25.1 h = 38.3 km MB=5.4 MS=5.4 D = 138.31 Az = 336 (NEIS) PKIKPV A 1.4s 18.6nm LmH C 22 0.7/um M = 5.3 LmV C 21 0.8/um 5.3

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Day	Phase	h m s	Remarks
3.	eP	A 23 02 12	<u>Off East Coast of Honshu, Japan</u>
	epP	A 02 22.5	40.52 N 145.31 E
	LmH	C 34.0	H = 22 50 01.5 h = 33 km MB = 5.0
	LmV	B 44.8	D = 80.57 Az = 332 (NEIS) h = 39 km
			PV A 1.0s 15.7nm M = 5.0
			LmH C 22 0.7/um 5.0
			LmV B 16 0.3/um 4.8
4.	ePn	A 09 25 40	<u>Poland</u> 51.0 N 16.1 E
	ePg	A 25 46	H = 09 24 52 h = 0 km
	eSg	A 26 23.5	D = 2.84 Az = 264 (ISC)
4.	eP	A 15 10 01.5	<u>Lake Baikal Region</u> 56.27 N 111.64 E
	LmH	B 35.5	H = 15 00 33.4 h = 33 km MB=4.9 MS=4.2
	LmV	B 35.6	D = 54.68 Az = 310 (NEIS)
			PV A 1.7s 30.3nm M = 5.1
			LmH B 16 0.6/um 4.7
			LmV B 15 0.6/um 4.9
5.	ePP	B 03 04 12	<u>Near Coast of Northern Chile</u>
	eSKS	B 10 40	23.87 S 70.16 W
	ePS	B 13 25	H = 02 46 05.9 h = 32 km
	eSS	B 18 55	MB = 5.6 MS = 5.4 (NEIS)
	LmH	B 50.2	D = 103.2
	LmV	B 50.5	PPV B 9s 0.6/um M = 6.1
			LmH B 19.5 1.1/um 5.4
			LmV B 19 0.9/um 5.3
5.	eP	AB 04 51 34	<u>Western Iran</u> 32.64 N 48.09 E
	eIS	B 56 50	H = 04 45 07.6 h = 40.3 km MB=5.5 MS=5.8
	eSS	B 58 40	D = 32.23 Az = 315 (NEIS)
	LmH	B 05 07.8	PA A 1.8s 101.0nm M = 5.4
	LmV	B 07.9	PV B 9.5 2.5/um 6.0
			LmH B 14 19.6/um 6.0
			LmV B 12 18.2/um 6.1

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Day	Phase	h m s	Remarks
5.	eP	A 05 05 39	<u>Iran - Iraq Border Region</u>
			32.68 N 47.94 E H = 04 59 15.5 h = 57.7 km MB = 4.9 D = 32.11 Az = 315 (NEIS)
5.	eP	AB 08 31 58.5	<u>Western Iran</u> 32.56 N 48.16 E
	LmH	B 48.5	H = 08 25 30.8 h = 33 km MB = 5.1
	LmV	B 49.0	D = 32.33 Az = 315 (NEIS)
			PV A 1.8s 27.0nm M = 4.8
			LmH B 14 0.9/um 4.6
			LmV B 12 1.3/um 4.9
5.	eP	A 08 51 39	<u>Iran - Iraq Border Region</u>
			32.69 N 47.91 E H = 08 45 13.0 h = 54.1 km MB = 4.6 D = 32.10 Az = 315 (NEIS)
5.	LmH	B 11 59.5	<u>Near East Coast of Honshu, Japan</u>
	LmV	B 12 00.5	35.94 N 141.47 E H = 11 05 34.8 h = 36 km MB = 4.6 (NEIS) D = 83.2
			LmH B 16s 0.25/um M = 4.7
			LmV B 16 0.3/um 4.8
5.	eiP	AB 14 02 28	<u>Sicily</u> 37.88 N 14.46 E
	LmH	B 07.4	H = 13 59 21.7 h = 7.6 km MB = 4.9
	LmV	B 10.4	D = 12.92 Az = 352 (NEIS)
			PV A 1.3s 69.9nm M = 5.7
			LmH B 17 1.2/um 4.0
			LmV B 10 0.9/um
5.	iPn	A 15 16 18	<u>Austria</u> 46.29 N 13.20 E
	ePg	A 16 38	H = 15 15 11.5 h = 33 km
	eSn	A 17 07.5	D = 4.49 Az = 347 (NEIS)
	eSg	A 17 34	PnV A 0.5s 19.2nm
5.	eP	A 18 28 21.5	<u>Northern Sinkiang Prov., China</u>
			42.00 N 85.71 E H = 18 19 29.0 h = 33 km MB = 4.7 D = 49.90 Az = 307 (NEIS)

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Day	Phase	h m s	Remarks	
5.	e(P)	A 23 22 47	<u>Southern Italy</u> 39.68 N 18.87 E H = 23 19 49.0 h = 33 km MB = 4.2 D = 15.37 Az = 335 (NEIS) traces	
6.	LmV LmH	C 02 29.2 C 29.4	<u>South Sandwich Islands Region</u> 55.22 S 28.93 W H = 01 29 59.3 h = 33 km MB = 5.3 MS = 5.0 (NEIS) D = 110.5 LmH C 23s 1.2/um M = 5.4 LmV C 23 1.2/um 5.4	
6.	eP	A 04 36 34	<u>Southern Greece</u> 37.09 N 21.75 E H = 04 32 57.2 h = 33 km MB = 4.2 D = 15.37 Az = 335 (NEIS) traces	
6.	LmH LmV	C 07 14.0 C 14.0	<u>Dominican Republic Region</u> 19.39 N 69.48 W H = 06 38 46.1 h = 49.1 km MB=4.9 MS=4.2 D = 69.67 Az = 42 (NEIS) LmH C 22s 0.7/um M = 4.8 LmV C 22 0.6/um 4.8	
6.	eP LmH LmV	A 10 53 03.5 C 58.3 C 11 00.7	<u>Spain</u> 37.76 N 1.82 W H = 10 49 12.7 h = 33 km MB=4.2 MS=3.8 D = 16.05 Az = 32 (NEIS) LmH C 15s 0.9/um M = 4.1 LmH C 12 0.9/um 4.4	
6.	ePKHKP epPKP	A 13 05 29 A 06 30	<u>Tonga Islands</u> 19.24 S 175.64 W H = 12 46 11.8 h = 253.4 km MB = 5.1 D = 148.14 Az = 351 (NEIS) h = 241 km	
6.	ePg	A 18 02 14	<u>Southern Italy</u> 40.86 N 15.24 E H = 17 58 32.9 h = 33 km (NEIS) D = 10.55	

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Day	Phase	h m s	Remarks	
cont. 6.	LmH LmV	C 18 05.5 C 06.6	LmH C 15s 0.35/um M = 3.4 LmV C 10 0.5/um	
6.	eP LmH LmV	A 18 46 50 C 19 03.3 C 03.3	<u>Southern Iran</u> 29.71 N 51.13 E H = 18 39 47.4 h = 29.7 km MB = 4.9 D = 36.14 Az = 317 (NEIS) LmH C 20s 0.4/um M = 4.2 LmV C 20 0.4/um 4.3	
6.	ePKP	A 20 10 34	<u>Fiji Islands Region</u> 18.01 S 178.38 W H = 19 51 59.3 h = 608.9 km MB = 4.8 D = 146.48 Az = 348 (NEIS)	
6.	LmV	C 24 30.0	<u>Near Coast of Central Chile</u> 33.15 S 71.94 W H = 23 28 27.5 h = 28 km MB = 4.7 (NEIS) D = 111.1 LmV C 18s 0.3/um M = 4.9	
7.	ePKP2	A 08 26 46	<u>South of Kermadec Islands</u> 33.12 S 178.58 W H = 08 06 06.6 h = 33 km MB=4.9 MS=4.9 D = 160.94 Az = 340 (NEIS) PKP2V A 1.4s 27.9nm	
7.	ePKIKP LmH LmV	A 09 00 29 C 42.5 C 42.5	<u>Santa Cruz Islands</u> 10.76 S 165.97 E H = 08 41 17.9 h = 76.7 km MB = 5.2 D = 134.99 Az = 334 (NEIS) LmH C 20s 0.35/um LmV C 20 0.5/um	
8.	eP	A 04 54 14.5	<u>Dodecanese Islands</u> 36.21 N 28.77 E H = 04 49 53.8 h = 33 km MB = 4.0 D = 19.00 Az = 325 (NEIS) traces	
8.	ePP	A 13 42 46	<u>Chile - Bolivia Border Region</u> 22.06 S 67.26 W	

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Day	Phase	h m s	Remarks
cont. 8.	e	A 13 42 50	H = 13 25 15.6 h = 144 km MB = 5.4 (NEIS) D = 100.0
8.	ePKIKP	A 14 25 00	<u>South of Fiji Islands</u> 22.10 S 176.95 W
	+iPKHKP	A 25 05.5	H = 14 05 39.3 h = 226.1 km MB=5.2 (NEIS)
	ePKP2	A 25 12	D = 150.7 PKHKPV A 1.4s 102.4nm
8.	eP	AB 14 37 53	<u>Near East Coast of Honshu, Japan</u>
	epP	A 38 13	38.54 N 141.49 E
	esP	A 38 19.5	H = 14 25 46.5 h = 78.5 km MB = 5.5
	eS	B 47 54	D = 80.89 Az = 330 (NEIS)
	LmH	B 15 11.0	h = 75 km
	LmV	B 17.5	PV A 1.5s 40.2nm M = 5.1 LmH B 17 1.9/um LmV B 14 1.1/um
8.	eP	A 21 30 51	<u>Java Sea</u> 5.88 S 113.08 E
	ePP	A 35 10	H = 21 18 03.2 h = 635.6 km MB=5.4 (NEIS) D = 101.8 traces
9.	LmV	C 01 58.1	<u>Mariana Islands</u> 13.46 N 145.77 E H = 00 50 44.2 h = 47 km MB = 4.6 MS = 4.1 (NEIS) D = 104.7 LmV C 18s 0.25/um M = 4.8
9.	eP	A 07 35 22.5	<u>Near East Coast of Kamchatka</u>
	LmH	C 08 13.6	55.11 N 162.58 E
	LmV	C 13.6	H = 07 24 01.4 h = 33 km MB=4.7 MS=4.2 D = 71.87 Az = 341 (NEIS) LmH C 16s 0.45/um M = 4.8 LmV C 16 0.3/um 4.7
9.	eP	A 16 51 51	<u>South Atlantic Ridge</u> 25.07 S 13.59 W H = 16 39 46.2 h = 33 km MB = 5.0 D = 78.62 Az = 16 (NEIS)

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Day	Phase	h m s	Remarks
10.	LmH	B 01 19.8	<u>Northeastern China</u> 39.61 N 117.91 E
	LmV	B 26.2	H = 00 41 00.0 h = 45.8 km MB=5.1 (NEIS) D = 69.5 LmH B 18.5s 0.8/um M = 5.0 LmV B 14 0.6/um 5.0
10.	ePg	A 02 39 21	<u>Czechoslovakia</u> 50.1 N 13.9 E
	eSg	A 39 37	H = 02 38 44 h = 0 km D = 1.58 Az = 292 (ISC)
10.	eP	A 02 48 23	<u>Southern Sumatra</u> 3.10 S 101.49 E
	e	A 48 41	H = 02 35 14.0 h = 33 km MB=5.4 MS=5.2
	ePP	A 52 02	D = 92.29 Az = 320 (NEIS)
	LmH	B 03 40.6	PV A 1.5s 30.2nm M = 5.5
	LmV	B 56.4	LmH B 20 0.4/um 4.9 LmV B 16 0.25/um 4.8
10.	ePKIKP	A 03 42 46.5	<u>Fiji Islands Region</u> 18.23 S 178.02 W
	ePKHKP	A 42 49.5	H = 03 24 05.4 h = 532.2 km MB=5.1 (NEIS) D = 146.8
10.	eP	A 05 49 29	<u>Arabian Sea</u> 11.61 N 57.68 E
	e	A 49 49	H = 05 40 06.8 h = 33 km MB = 5.1 (NEIS) D = 54.0
10.	eP	A 23 06 37.5	<u>Mediterranean Sea</u> 35.12 N 22.76 E
			H = 23 02 32.3 h = 33 km MB = 4.2 D = 17.51 Az = 336 (NEIS)
10.	LmH	B 24 45.6	<u>Ceram</u> 3.19 S 130.53 E
	LmV	B 55.7	H = 23 43 31.9 h = 39 km MB = 5.3 MS = 4.6 (NEIS) D = 110.5 LmH B 21s 0.4/um M = 5.0 LmV B 20 0.25/um 4.8
11.	eP	A 20 41 05.5	<u>North Atlantic Ridge</u> 33.92 N 38.97 W
	eS	B 47 24	H = 20 33 30.7 h = 33 km
	eSS	B 50 28	MB = 4.8 MS = 4.5 (NEIS)

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Day	Phase	h m s	Remarks
cont. 11.	LmH B LmV B	20 55.2 55.2	D = 40.2 LmH B 19s 0.6/um M = 4.5 LmV B 19 1.0/um 4.8
12.	eP A	08 59 33	<u>Hokkaido, Japan Region</u> 42.35 N 142.07 E H = 08 47 46.2 h = 107.8 km MB=5.1 (NEIS) D = 77.8 PV A 1.1s 16.1nm M = 4.7
12.	+1PKP A	12 36 13	<u>New Hebrides Islands</u> 19.79 S 169.09 E H = 12 16 49.2 h = 106.3 km MB=5.0 (NEIS) D = 144.5 PKIKPV A 1.1s 32.2nm
12.	LmH B LmV B	12 42.8 42.9	<u>Southern Greece</u> 37.57 N 22.68 E H = 12 39 30.9 h = 9 km (ISC) D = 20.3 LmH B 14s 0.2/um M = 3.7 LmV B 13 0.3/um 4.0
12.	ePKP A	15 33 45	<u>Fiji Islands Region</u> 17.98 S 178.69 W H = 15 15 06.9 h = 574.0 km MB=4.5 (NEIS) D = 146.4 traces
12.	epPKP A	19 33 51	<u>South of Fiji Islands</u> 23.05 S 176.23 W H = 19 13 49.2 h = 122.8 km MB=4.7 (NEIS) D = 151.8
13.	eP A	00 25 11.5	<u>Pakistan</u> 29.84 N 67.64 E H = 00 16 46.2 h = 33 km MB = 4.4 D = 46.30 Az = 313 (NEIS)
13.	ePKIKP A ePKHKP AB	10 28 28 28 30	<u>Tonga Islands</u> 18.53 S 174.06 W H = 10 08 48.0 h = 41 km MB=5.5 MS=5.3 D = 147.63 Az = 353 (NEIS) PKHKPV A 1.8s 155.2nm PKHKPV B 8 1.5/um

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Day	Phase	h m s	Remarks
13.	ePP A eS B ePS B LmH B LmV B	12 04 34.5 12 05 13 30 42.9 47:8	<u>Luzon, Philippine Islands</u> 13.31 N 124.65 E H = 11 47 41.4 h = 35 km MB = 5.6 MS = 5.3 (NEIS) D = 93.8 PPV A 2.0s 42.7nm M = 5.5 LmH B 20 2.2/um 5.6 LmV B 16 1.3/um 5.5
13.	eP A epP A esP A ePP A	13 48 50 49 38 50 04.5 50 38	<u>Afghanistan - USSR Border Region</u> 36.43 N 71.29 E H = 13 40 50.3 h = 121 km MB = 5.0 D = 44.35 Az = 308 (NEIS) h = 229 km PV A 1.6s 33.0nm M = 4.8
14.	eP A LmH B LmV B	08 04 47 52.7 57.2	<u>Philippine Islands Region</u> 11.01 N 125.95 E H = 07 51 21.4 h = 49 km MB = 5.1 MS = 4.5 (NEIS) D = 96.5 LmH B 16s 0.5/um MB = 5.1 LmV B 16.5 0.5/um 5.1
14.	ePKP A	08 56 28	<u>Tonga Islands</u> 18.02 S 175.12 E H = 08 37 09.8 h = 223 km MB = 5.0 D = 147.00 Az = 352 (NEIS) PKPV A 1.2s 28.4nm
14.	ePKHKP A	18 25 13	<u>Sulawesi (Celebes)</u> 1.11 S 123.82 E H = 13 24 36.2 h = 58 km D = 155.74 Az = 84 (ISC)
14.	eP A	21 00 31	<u>Eastern Mediterranean Sea</u> 33.86 N 25.63 E H = 20 56 03.1 h = 33 km (NEIS) D = 19.7 PV A 1.0s 15.7nm M = 4.2

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Day	Phase	h m s	Remarks
14.	eP AB	21 50 34	<u>South Atlantic Ridge</u> 14.12 S 14.43 W
	ePP B	53 06	H = 21 39 35.2 h = 33 km
	eS B	59 36	MB = 6.0 MS = 5.4 (NEIS)
	eSS B	22 04 04	D = 66.8
	LmH B	21.2	PV A 1.8s 210.0nm M = 5.9
	LmV B	21.3	LmH B 16.5 2.0/um 5.4 LmV B 16.5 2.6/um 5.6
14.	eP AB	24 03 37	<u>North Atlantic Ridge</u> 16.53 N 46.61 W
	ePP B	05 56	H = 23 53 49.9 h = 33 km MB = 5.3 (NEIS)
	eS B	11 40	D = 57.3
	LmV B	25.8	PV A 1.2s 24.4nm M = 5.1
	LmH B	27.4	LmH B 16 0.5/um 4.7 LmV B 16 0.6/um 4.9
15.	eP A	00 20 49	<u>South Atlantic Ridge</u> 14.06 S 14.41 W H = 00 09 49.0 h = 33 km MB = 4.9 D = 68.34 Az = 17 (NEIS)
15.	iPg A	10 54 12	<u>German Democratic Republic</u>
	eiSg A	54 27	51.37 N 12.89 E yield 11 t (CLL) Explosion D c. 1.0
16.	eP A	02 28 46	<u>Rumania</u> 45.74 N 26.61 E H = 02 26 10.3 h = 150.8 km MB = 4.1 D = 11.14 Az = 302 (NEIS)
16.	ePKP A	04 37 09	<u>Samoa Islands Region</u> 15.24 S 172.80 W
	LmV B	05 49.0	H = 04 17 35.7 h = 33 km
	LmH B	51.8	MB = 5.0 MS = 5.1 (NEIS) D = 144.5 PKPV A 1.6s 22.0nm LmV B 18 0.3/um M = 5.1
17.	ePKIKP AB	02 47 37	<u>Fiji Islands Region</u> 19.88 S 179.10 W
	iPKHKP AB	47 42	H = 02 29 09.8 h = 690 km MB = 5.7
	ePKP2 A	47 47	D = 148.14 Az = 347 (NEIS)
	epPKP B	50 12	h c. 665 km

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Day	Phase	h m s	Remarks
cont. 17.	esPKP B	02 51 10	PKIKPV A 2.0s 154.0nm
	eiSS B	03 09 30	PKHKPV A 1.9 720.0nm
	eSSSS B	19 15	PKHKPV B 3 1.5/um PKP2V A 1.7 334.0nm
17.	eP A	15 02 48	<u>Mariana Islands</u> 19.04 N 145.69 E
	epP A	03 16	H = 14 45 09.4 h = 107.7 km MB = 5.6
	LmH B	42.5	D = 99.72 Az = 332 (NEIS)
17.	LmV B	47.2	h = 109 km
	eP A	15 44 58	<u>Greece</u> 38.44 N 20.35 E H = 15 41 45.4 h = 59.5 km MB = 4.3 D = 13.69 Az = 336 (NEIS)
17.	ePKHKP A	21 00 02.5	<u>Fiji Islands Region</u> 21.01 S 178.74 W
	ePKP2 A	00 09.5	H = 20 41 20.5 h = 607.7 km D = 149.31 Az = 347 (NEIS) PKHKPV A 1.4s 23.2nm
18.	ePKIKP A	10 22 48	<u>Fiji Islands Region</u> 20.29 S 177.99 W
	iPKHKP A	22 53	H = 10 04 08.3 h = 566.6 km MB = 5.0
	iPKP2 A	22 59	D = 148.77 Az = 348 (NEIS) PKHKPV A 1.1s 60.5nm
18.	ePn A	11 55 24	<u>Austria</u> 46.17 N 13.06 E
	ePg A	55 47	H = 11 54 15.8 h = 33 km MB = 4.7
	iSn A	56 13	D = 4.58 Az = 348 (NEIS)
	iSg A	56 36.5	
18.	ePP A	13 22 32.5	<u>Eastern Mediterranean Sea</u> 34.99 N 30.45 E H = 13 17 38.0 h = 33 km D = 20.78 Az = 325 (NEIS)

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Day	Phase	h m s	Remarks
18.	eP LmH LmV	A B B 14 37 43 47.8 49.9	<u>Western Caucasus</u> 41.97 N 43.98 E H = 14 32 31.2 h = 33 km MB = 4.5 D = 23.82 Az = 302 (NEIS) LmH B 15s 0.25/um M = 3.8
18.	eP ePP eSKS eS eSP LmH LmV	A A B B B B B 17 03 13 07 15 13 44 14 48 16 05 51.0 51.0	<u>Chile - Bolivia Border Region</u> 20.89 S 68.45 W H = 16 49 40.9 h = 131 km MB = 5.4 D = 99.83 Az = 40 (NEIS) PPV A 2.0s 51.3nm M = 5.7 LmH B 17 0.2/um LmV B 17 0.3/um
18.	eP	A 18 51 16.5	<u>South Atlantic Ridge</u> 13.80 S 14.18 W H = 18 40 18.9 h = 33 km MB = 4.7 (NEIS) D = 68.0 PV A 1.5s 20.1nm M = 5.0
18.	eP e	A A 20 49 45 49 50	<u>South Atlantic Ridge</u> 13.72 S 14.61 W H = 20 38 46.6 h = 33 km MB=5.5 (NEIS) D = 68.0 PV A 1.5s 25.1nm M = 5.1
18.	ePKIKP ePP eSKP eSS LmH LmV	AB AB B B B B 22 30 04 32 24 33 32 49 55 23 24.5 31.9	<u>Solomon Islands</u> 9.77 S 159.67 E H = 22 10 49.6 h = 11 km MB=5.6 MS=5.7 D = 131.49 Az = 333 (NEIS) PKIKPV A 1.8s 33.8nm PPV A 2.2 65.4nm M = 5.5 LmH B 16 2.0/um 5.9 LmV B 18 1.0/um 5.6
18.	ePKP2 epPKP	A A 22 52 50 55 03	<u>South of Fiji Islands</u> 24.21 S 179.06 E H = 22 33 56.0 h = 542.8 km MB = 5.2 D = 151.87 Az = 343 (NEIS) pPKPV A 1.8s 40.5nm
19.	+iPKP e	A A 07 41 50 41 54	<u>Samoa Islands Region</u> 16.30 S 172.14 W H = 07 22 13.2 h = 33 km MB = 4.7 (NEIS) D = 142.9 PKPV A 1.3s 35.0nm

June 1977			Moxa
Day	Phase	h m s	Remarks
19.	eP ePP eSKS eS LmH LmV	AB AB B B B B 07 45 34 49 47 55 44 56 44 08 38.2 38.3	<u>Celebes Sea</u> 4.65 N 124.93 E H = 07 32 13.8 h = 271 km MB = 5.7 D = 100.90 Az = 323 (NEIS) LmH B 16s 0.5/um LmV B 16 0.4/um
19.	iP epP ePP ePPPP eS LmH LmV	AB A B B B B B 11 58 58 59 40 12 01 44 04 25 08 24 35.0 36.2	<u>Kurile Islands</u> 47.15 N 151.09 E H = 11 47 23.4 h = 149 km MB = 5.6 D = 76.51 Az = 335 (NEIS) h = 175 km PV A 1.6s 198.0nm M = 5.6 LmH B 17.5 0.9/um LmV B 16 0.6/um
19.	eP LmH	A B 18 27 32 48.0	<u>North Atlantic Ridge</u> 15.48 N 46.71 W H = 18 17 39.2 h = 33 km MB = 5.3 MS = 4.6 (NEIS) D = 58.2 PV A 2.0s 59.9nm M = 5.3
20.	eP	A 02 06 57	<u>Southern Italy</u> 39.25 N 15.82 E H = 02 04 11.4 h = 266.7 km MB = 4.2 D = 11.77 Az = 347 (NEIS)
20.	ePKHKP LmH LmV	AB B B 20 27 44 21 46.0 49.9	<u>Loyalty Islands Region</u> 22.70 S 170.63 E H = 20 08 02.1 h = 44.8 km MB=5.2 MS=5.0 D = 147.65 Az = 335 (NEIS) PKHKPV A 1.8s 54.0nm PKHKPV B 8 0.8/um LmH B 16 0.2/um M = 4.9 LmV B 16 0.2/um 4.9
21.	ePKP	A 09 17 22	<u>Tonga Islands</u> 15.76 S 174.76 W H = 08 58 21.1 h = 306.4 km MB=4.7 (NEIS) D = 145.0 PKPV A 1.6s 55.0nm

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Day	Phase	h m s	Remarks	
21.	e	A 19 03 11	<u>Tonga Region</u> 23.72 S 174.81 W H = 18 43 00.1 h = 33 km D = 152.66 Az = 351 (ISC)	
21.	ePKP	A 19 10 32	<u>Loyalty Islands Region</u> 22.05 S 170.05 E H = 18 50 50.9 h = 21.7 km MB = 5.0 D = 146.84 Az = 335 (NEIS) PKPV A 1.2s 20.4nm	
21.	eP	A 19 17 55	<u>Eastern Mediterranean Sea</u> 35.57 N 29.60 E H = 19 13 26.1 h = 46.1 km MB = 4.7 (NEIS) D = 19.9 PV A 1.3s 26.2nm M = 4.3 LmH B 15 0.4/um 3.9 LmV B 16 0.4/um 4.0	
22.	eP	A 07 23 50	<u>Near East Coast of Honshu, Japan</u> 35.48 N 140.44 E H = 07 11 27.5 h = 35.3 km MB=5.1 MS=4.5 D = 83.12 Az = 330 (NEIS) PV A 1.5s 20.1nm M = 4.9	
22.	eP	A 09 01 54	<u>Near East Coast of Kamchatka</u> 53.88 N 160.64 E H = 08 50 28.3 h = 33 km MB=5.1 MS=3.9 D = 72.64 Az = 340 (NEIS)	
22.	-iPKIKP PKPm iPP iPPP eiSS ePSPS	AB 12 28 14.5 AB 28 38 B 32 40 B 35 38 B 51 10 B 52 24	<u>Tonga Islands Region</u> 22.88 S 175.90 W H = 12 08 33.4 h = 65.4 km MB = 6.8 D = 151.67 Az = 350 (NEIS) PKIKPV A 3.0s 540.0nm PKPmV A 2.5 11828.0nm PPV B 10 5.3/um	
22.	eP	A 16 02 15.5	<u>Kashmir - India Border Region</u> 33.15 N 76.01 E H = 15 53 27.6 h = 36.3 km MB = 4.8 D = 49.42 Az = 311 (NEIS)	

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Day	Phase	h m s	Remarks	
22.	LmH LmV	B 20 21.5 B 21.5	<u>Near North Coast of Papua New Guinea</u> 3.53 S 145.54 E H = 19 08 37.8 h = 33 km MB=5.0 (NEIS) D = 119.2 LmH B 19s 0.5/um M = 5.1 LmV B 19 0.6/um 5.3	
23.	ePKHKP ePKP2	A 09 53 46 A 53 54.5	<u>Tonga Islands Region</u> 22.27 S 175.90 W H = 09 34 06.9 h = 128 km MB = 4.6 D = 151.07 Az = 350 (NEIS)	
23.	LmH LmV	B 17 35.6 B 35.7	<u>Near East Coast of Honshu, Japan</u> 35.16 N 140.33 E H = 16 40 01.1 h = 30 km MB = 4.7 (NEIS) D = 83.5 LmH B 12.5s 0.4/um M = 5.0 LmV B 13 0.4/um 5.0	
23.	ePKHKP ePKP2	A 18 21 12 A 21 20.5	<u>South of Fiji Islands</u> 22.82 S 176.06 W H = 18 01 27.5 h = 98 km MB = 4.8 D = 151.59 Az = 350 (NEIS)	
23.	LmH	B 21 04.5	<u>Komandorsky Islands Region</u> 55.01 N 165.56 E H = 20 19 27.9 h = 32.2 km MB = 4.9 MS = 4.3 (NEIS) D = 72.5 LmH B 16s 0.25/um M = 4.6	
24.	ePKIKP ePKHKP LmV LmH	A 00 50 06 A 50 13 B 01 56.0 B 56.2	<u>Tonga Islands Region</u> 22.89 S 175.94 W H = 00 30 20.9 h = 33 km MB=5.5 MS=5.1 D = 151.67 Az = 350 (NEIS) PKIKPV A 1.8s 27.0nm PKHKPV A 1.5 75.4nm LmH B 22 0.6/um M = 5.3 LmV B 22 0.5/um 5.2	

Day	Phase	h m s	Remarks
24.	eSg	A 05 55 37	<u>Northern Italy</u> 44.51 N 7.38 E H = 05 51 47.4 h = 8 km D = 6.77 Az = 24 (ISC)
24.	eP LmH LmV	A 13 08 56 B 28.0 B 30.7	<u>Tadzhik - Sinkiang Border Region</u> 39.47 N 73.01 E H = 13 00 55.1 h = 42.9 km MB = 4.9 D = 43.60 Az = 306 (NEIS) traces LmH B 17s 0.15/um M = 4.0 LmV B 12 0.2/um 4.3
24.	eP epP eaP e	A 16 33 32.5 A 33 47.5 A 33 52.5 A 33 57	<u>Southern Sumatra</u> 2.27 S 100.83 E H = 16 20 30.3 h = 53 km MB = 5.5 D = 91.24 Az = 320 (NEIS) h = 53 km PV A 1.2s 32.6nm M = 5.6
24.	eP	A 24 05 48	<u>Hindu Kush Region</u> 36.45 N 70.42 E H = 23 58 01.6 h = 209 km MB = 4.7 D = 43.78 Az = 308 (NEIS)
25.	eP ePP LmH LmV	A 06 52 33 A 56 17 B 07 41.5 B 42.0	<u>Southern Sumatra</u> 4.60 S 102.23 E H = 06 39 18.3 h = 47 km MB=5.5 MS=4.6 D = 93.92 Az = 320 (NEIS) PV A 1.5s 15.1nm M = 5.2
25.	ePKHKP ePKP2 epPKP e	A 15 43 23 A 43 30.5 A 45 54 A 46 20	<u>Fiji Islands Region</u> 21.32 S 179.24 W H = 15 24 42.9 h = 633 km MB = 5.4 D = 149.51 Az = 346 (NEIS) PKHKPV A 1.0s 47.2nm
25.	eP e LmH LmV	A 18 51 03 A 51 22 B 19 26.5 B 35.4	<u>South of Honshu, Japan</u> 32.34 N 139.57 E H = 18 38 22.0 h = 34.3 km MB=5.1 MS=4.3 D = 85.47 Az = 330 (NEIS) PV A 1.4s 14.0nm M = 5.0 LmH B 20 0.4/um 4.8

Day	Phase	h m s	Remarks
25.	eP LmH LmV	A 22 11 29 B 35.4 B 35.5	<u>Northern Sinkiang Province, China</u> 41.98 N 89.80 E H = 22 02 11.5 h = 26 km MB=4.9 MS=3.6 D = 52.33 Az = 308 (NEIS) PV A 1.0s 15.7nm M = 5.0
26.	eP LmH LmV	A 00 22 52.5 B 01 00.2 B 00.4	<u>Kurile Islands</u> 45.46 N 150.73 E H = 00 10 58.2 h = 47.3 km MB=5.2 MS=4.6 D = 77.94 Az = 335 (NEIS) PV A 1.1s 36.3nm M = 5.3 LmH B 20 0.5/um 4.8 LmV B 20 0.4/um 4.8
26.	eP	A 02 33 10	<u>Southern Iran</u> 27.53 N 56.08 E H = 02 25 29.4 h = 38.6 km MB = 4.8 D = 40.71 Az = 317 (NEIS)
26.	ePKP2	A 05 54 48	<u>Tonga Islands</u> 21.24 S 174.69 W H = 05 34 51.5 h = 33 km MB = 4.8 D = 150.24 Az = 352 (NEIS)
26.	ePKHKP	A 06 19 10	<u>Tonga Islands Region</u> 22.70 S 175.47 W H = 05 59 21.2 h = 51.5 km MB=5.4 MS=5.1 D = 151.56 Az = 351 (NEIS) PKHKPV A 1.4s 23.2nm
26.	LmH LmV	B 10 56.9 B 58.0	<u>Dominican Republic Region</u> 19.34 N 69.31 W H = 10 15 39.0 h = 35 km MB = 4.7 MS = 4.2 (NEIS) D = 69.7 LmH B 19s 0.2/um M = 4.4
27.	ePn ePg eSn LmH LmV	A 12 35 10 A 35 41 A 37 05 B 38.2 B 38.2	<u>Northern Italy</u> 44.29 N 11.56 E H = 12 33 36.9 h = 33 km (NEIS) D = 6.40 LmH B 13s 0.45/um M = 3.1 LmV B 15 0.55/um

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Day	Phase	h m s	Remarks
27.	ePKIKP A	14 31 37	<u>South of Fiji Islands</u> 24.22 S 176.88 W
	ePKHKP A	31 45	H = 14 11 46.4 h = 33 km MB=5.2 MS=5.3
	ePKP2 A	31 56	D = 152.81 Az = 348 (NEIS)
	LmV B	15 50.5	PKIKPV A 1.8s 27.0nm
	LmH B	51.5	LmH B 18 0.5/um M = 5.3 LmV B 18 0.35/um 5.2
27.	ePKHKP A	16 09 07.5	<u>South of Fiji</u> 23.4 S 177.1 W H = 15 49 15.2 D = 152.01 Az = 348 (ISC)
27.	ePKP2 A	16 26 48	<u>South of Fiji Islands</u> 24.19 S 176.97 W H = 16 06 37.5 h = 32.1 km MB = 5.0 D = 152.77 Az = 348 (NEIS) PKP2V A 1.7s 30.3nm
27.	eP A	22 58 07	<u>Dodecanese Islands</u> 35.72 N 27.30 E H = 22 53 44.4 h = 33 km MB = 4.2 D = 18.74 Az = 328 (NEIS) PV A 1.4s 14.0nm M = 4.0
27.	eP A	23 39 01	<u>North Atlantic Ridge</u> 10.63 N 42.87 W
	LmH B	24 02.5	H = 23 28 55.8 h = 33 km MB=4.8 MS=4.2
	LmV B	02.5	D = 59.68 Az = 37 (NEIS) LmH B 19s 0.35/um M = 4.5 LmV B 19 0.3/um 4.5
28.	ePKP2 A	01 43 23	<u>Tonga Islands</u> 21.00 S 175.24 W H = 01 23 39.7 h = 68.4 km MB = 5.2 D = 149.92 Az = 351 (NEIS) PKP2V A 1.4s 46.5nm
28.	LmH B	03 32.2	<u>Kyushu, Japan</u> 32.80 N 130.75 E
	LmV B	40.2	H = 02 46 41.8 h = 17.9 km MB = 4.7 MS = 4.2 (NEIS) D = 81.1 LmH B 18s 0.8/um M = 5.1 LmV B 12 0.4/um 5.0

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Day	Phase	h m s	Remarks
28.	eP A	03 52 35.5	<u>Southern Iran</u> 27.61 N 56.15 E H = 03 44 55.1 h = 46.4 km MB = 4.9 D = 40.69 Az = 317 (NEIS)
28.	eP A	05 57 54.5	<u>Jan Mayen Island Region</u> 72.01 N 2.10 W H = 05 52 54.8 h = 33 km MB = 4.3 D = 22.31 Az = 157 (NEIS) PV A 1.4s 25.6nm M = 4.5
28.	ePKHKP A	06 03 07.5	<u>Tonga Islands Region</u> 23.51 S 175.29 W
	ePKP2 A	03 17	H = 05 43 12.5 h = 47 km MB = 4.7 D = 152.38 Az = 350 (NEIS)
28.	-iP AB	07 15 36	<u>Sicily</u> 38.63 N 14.71 E
	eS B	17 48	H = 07 12 49.3 h = 261.4 km MB = 5.3
	LmH B	18.9	D = 12.21 Az = 351 (NEIS)
	LmV B	19.7	PV A 0.9s 226.0nm M = 5.4 LmH B 7 3.5/um LmV B 6 1.2/um
28.	eP AB	15 47 45	<u>North Atlantic Ridge</u> 22.56 N 45.12 W
	ePP B	49 45	H = 15 38 37.0 h = 33 km MB=5.3 MS=5.6
	ePPP B	50 48	D = 51.91 Az = 43 (NEIS)
	eS B	55 08	PV A 1.0s 27.6nm M = 5.2
	LmH B	16 05.5	PV B 4.5 0.7/um 5.9
	LmV B	06.4	LmH B 20 2.7/um 5.3 LmV B 18 1.6/um 5.1
28.	eP A	16 27 21.5	<u>North Atlantic Ridge</u> 22.65 N 45.14 W
	Pm B	27 48	H = 16 18 15.2 h = 33 km MB=5.5 MS=5.7
	ePP B	29 20	D = 51.85 Az = 43 (NEIS)
	ePPP B	30 20	PV A 1.7s 97.0nm M = 5.5
	eS B	34 48	PmV B 10 1.1/um 5.7
	LmH B	45.1	LmH B 20 4.1/um 5.5 LmV B 18 2.8/um 5.4
28.	eP A	19 05 55	<u>North Atlantic Ridge</u> 22.54 N 45.11 W H = 18 56 47.6 h = 33 km MB = 4.6 (NEIS) D = 51.9

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Day	Phase	h m s	Remarks
28.	eP	A 19 27 42	<u>North Atlantic Ridge</u> 22.62 N 45.11 W
	Pm	B 28 00	H = 19 18 35.8 h = 33 km MB=5.8 MS=6.0
	ePP	B 29 48	D = 51.86 Az = 43 (NEIS)
	eS	B 35 08	PV A 1.9s 356.0nm M = 6.0
	LmH	B 45.6	PmV B 10 1.7/um 5.9
	LmV	B 46.6	PPV B 9 1.2/um 5.9 LmH B 20 6.3/um 5.7 LmV B 18 5.1/um 5.7
28.	eP	A 19 44 09	<u>North Atlantic Ridge</u> 22.57 N 45.11 W H = 19 36 01.9 h = 33 km MB = 4.9 D = 51.90 Az = 43 (NEIS) PV A 1.6s 38.5nm M = 4.9
28.	ePKIKP	A 21 47 31	<u>Tonga Islands</u> 16.8 S 173.18 W
	epPKIKP	A 47 56	H = 21 27 58.7 h = 74 km D = 146.03 Az = 355 (ISC) h = 88 km
28.	eP	A 22 16 47	<u>Molucca Sea</u> 0.06 S 125.06 E
	ePP	A 21 09	H = 22 02 42.5 h = 33 km MB=5.6 MS=4.8 D = 104.72 Az = 323 (NEIS) PV A 1.2s 16.3nm M = 5.8
29.	+iP	A 03 14 49	<u>Eastern Kazakh SSR</u> 50.03 N 78.23 E
	ePn	A 16 20.5	H = 03 06 58.0 h = 0 km MB=5.3 MS=5.2 D = 41.61 Az = 298 (NEIS) Underground explosion (UPP) PV A 0.8s 46.1nm M = 5.3
29.	ePKHKP	AB 03 31 32	<u>Tonga Islands Region</u> 23.16 S 175.20 W
	ePKP2	A 31 44	H = 03 11 39.8 h = 38 km MB=5.2 MS=5.2
	LmH	B 04 47.0	D = 152.06 Az = 351 (NEIS) LmH B 18s 0.45/um M = 5.2
29.	ePKIKP	A 07 42 56	<u>Banda Sea</u> 7.60 S 127.65 E
	ePP	A 43 48	H = 07 24 24.8 h = 58.5 km MB = 6.0
	ePKKP	A 53 49	D = 112.23 Az = 322 (NEIS) PPV A 2.5s 153.6nm M = 6.1

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Day	Phase	h m s	Remarks
29.	eP	A 13 09 39.5	<u>Mid-Indian Rise</u> 14.69 S 66.53 E H = 12 57 27.3 h = 33 km MB = 5.2 D = 80.80 Az = 328 (NEIS) PV A 1.4s 41.8nm M = 5.2
	ePKP2	A 19 50 42	<u>Tonga Islands Region</u> 23.45 S 175.27 W H = 19 30 36.4 h = 33 km MB = 4.7 D = 152.33 Az = 351 (NEIS) PKP2V A 1.3s 13.1nm
	ePKHKP	A 21 45 06	<u>Tonga Islands Region</u> 22.56 S 175.35 W H = 21 25 13.7 h = 33 km MB = 4.9 D = 151.44 Az = 351 (NEIS) PKHKPV A 1.3s 17.5nm
30.	eP	A 00 25 52	<u>Mindanao, Philippine Islands</u> 9.87 N 125.83 E H = 00 12 20.3 h = 33 km MB = 5.2 D = 97.23 Az = 324 (NEIS)
30.	eP	A 03 03 03	<u>Bonin Islands Region</u> 27.69 N 139.56 E H = 02 50 55.0 h = 465.4 km MB = 4.8 D = 89.64 Az = 330 (NEIS)
30.	ePKHKP	A 03 04 17.5	<u>Tonga Islands Region</u> 22.88 S 175.89 W
	ePKP2	A 04 26.5	H = 02 44 23.0 h = 33 km MB = 4.7 (NEIS) D = 151.8
30.	ePKHKP	A 03 34 05	<u>Tonga Islands Region</u> 23.78 S 175.60 W H = 03 14 09.4 h = 33 km MB = 4.8 D = 152.60 Az = 350 (NEIS) PKHKPV A 1.4s 14.0nm
30.	eP	A 08 28 10	<u>Mid-Indian Rise</u> 14.63 S 66.52 E H = 08 15 58.2 h = 33 km MB = 5.1 D = 80.75 Az = 328 (NEIS)

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Day	Phase	h m s	Remarks
30.	ePKP A	09 11 03	<u>Tonga Islands</u> 17.44 S 173.52 W H = 08 51 26.1 h = 68 km MB = 5.3 D = 146.62 Az = 354 (NEIS)
30.	ePn A	16 07 23	<u>Northern Italy</u> 44.4 N 10.4 E H = 16 05 45 h = 0 km
	eSn A	07 48.5	D = 6.33 Az = 7 (ISC)
	eSg A	08 13	
30.	eP A	19 31 30	<u>Sicily</u> 38.57 N 11.98 E H = 19 28 37.2 h = 33 km MB = 4.6 (NEIS)
	LmH B	37.2	D = 12.1
	LmV B	38.3	LmH B 11s 0.6/um M = 3.9 LmV B 8.5 0.6/um
30.	eP A	19 37 13	<u>Sicily</u> 38.2 N 11.77 E H = 19 34 12 h = 0 km D = 12.46 Az = 359 (ISC)
30.	LmH B	23 11.4	<u>Off East Coast of Honshu, Japan</u> 40.69 N 143.55 E H = 22 25 47.6 h = 20.1 km MB = 5.0
	LmV B	16.5	D = 79.79 Az = 331 (NEIS) LmH B 18s 0.3/um M = 4.7

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Day	Phase	h m s	Remarks
1.	eP A	10 00 05	<u>Northern Sumatra</u> 1.97 N 98.06 E H = 09 47 29.7 h = 70.2 km MB = 5.0 D = 86.23 Az = 320 (NEIS)
1.	ePKP A	12 26 47	<u>Tonga Islands</u> 16.83 S 173.62 W H = 12 07 10.1 h = 50 km MB = 5.0 (NEIS) D = 146.0 PKPV A 1.4s 16.3nm
1.	eP A	14 51 56	<u>Afghanistan - USSR Border Region</u> 36.41 N 71.11 E H = 14 44 10.3 h = 257.0 km MB = 4.7
	epP A	52 49	D = 44.24 Az = 308 (NEIS) h = 260 km PV A 1.4s 41.9nm M = 4.6
1.	eP A	15 44 37	<u>Kurile Islands</u> 45.62 N 151.53 E H = 15 32 41.2 h = 35.7 km MB=5.0 MS=4.5
	e A	44 48.5	D = 78.03 Az = 335 (NEIS)
	LmH B	16 18.6	PV A 0.8s 19.2nm M = 5.2
	LmV B	21.5	LmH B 17 0.8/um 5.1 LmV B 17 0.3/um 4.7
1.	eP A	18 35 48	<u>Iceland</u> 64.60 N 17.85 W H = 18 31 03.6 h = 5.7 km MB = 4.6
	LmH B	44.9	D = 20.80 Az = 118 (NEIS)
	LmV B	46.3	PV A 1.3s 10.9nm M = 4.0 LmH B 17 0.4/um 3.9 LmV B 14 0.5/um 4.2
1.	eP A	21 54 34.5	<u>Eastern Caucasus</u> 43.00 N 45.46 E H = 21 49 19.9 h = 53.1 km MB = 4.8 (NEIS) D = 24.2
2.	e A	01 14 36	<u>Solomon Islands</u> 9.95 S 160.54 E H = 00 55 09.0 h = 16.2 km MB=5.7 MS=5.8
	e A	15 20	D = 132.04 Az = 334 (NEIS)
	e A	16 38	LmH B 17.5s 1.7/um M = 5.8
	ePP B	16 44	LmV B 20 1.6/um 5.7
	ePKS B	17 48	

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Day	Phase	h m s	Remarks
cont. 2.	LmH B	02 08.0	
	LmV B	13.0	
2.	LmH B	06 10.2	<u>Northern Chile</u> 25.87 S 70.79 W H = 05 09 05.6 h = 32 MB = 5.4 MS = 5.0 (NEIS) D = 105.0 LmH B 20s 0.5/um M = 5.1 LmV B 18 0.7/um 5.3
	LmV B	12.8	
2.	LmH B	11 37.0	<u>Solomon Islands</u> 10.09 S 160.40 E H = 10 17 31.0 h = 16 km MB = 4.9 MS = 4.8 (NEIS) D = 132.1 LmH B 20s 0.25/um M = 4.9 LmV B 20 0.25/um 4.9
	LmV B	37.0	
2.	eP A	16 02 12	<u>Near East Coast of Kamchatka</u> 53.20 N 160.05 E H = 15 50 44.7 h = 55 km MB = 4.7 D = 73.16 Az = 340 (NEIS) h = 42 km
	epP A	02 23	
2.	eP A	22 06 21	<u>Turkey</u> 36.05 N 30.92 E H = 22 01 50.1 h = 65.8 km MB = 4.5 D = 20.16 Az = 322 (NEIS) PV A 0.8s 11.5nm M = 4.2
3.	eP A	06 46 59	<u>Southern Iran</u> 25.18 N 60.90 E H = 06 38 41.4 h = 33 km MB = 4.6 D = 45.37 Az = 317 (NEIS)
3.	ePg A	10 30 29	<u>Northern Italy</u> 44.99 N 10.94 E H = 10 28 38.7 h = 33 km D = 5.68 Az = 4 (NEIS)
3.	iPn A	11 46 04	<u>Austria</u> 46.18 N 13.09 E H = 11 44 56.6 h = 33 km
	iPg A	46 23.5	

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Day	Phase	h m s	Remarks
cont. 3.	iSn A	11 46 53.5	D = 4.58 Az = 348 (NEIS)
	iSg A	47 17	
3.	ePn A	12 15 14	<u>France</u> 44.77 N 6.67 E H = 12 13 27.5 h = 33 km MB = 4.7 D = 6.76 Az = 28 (NEIS) LmH B 8s 0.35/um M = 3.3 LmV B 7 0.5/um
	ePg A	15 37	
	e A	15 42	
	e A	16 23	
	eSg A	17 13	
	LmH B	17.4	
	LmV B	17.8	
3.	eP A	13 07 33.5	<u>Fox Islands, Aleutian Is.</u> 52.52 N 167.48 W H = 12 55 41.4 h = 33 km MB=5.0 MS=4.6 D = 77.20 Az = 1 (NEIS) PV A 1.3s 30.6nm M = 5.2 LmH B 16 0.4/um 4.8 LmV B 16 0.25/um 4.7
	LmH B	47.8	
	LmV B	48.0	
3.	eP A	14 53 15	<u>Molucca Passage</u> 1.44 N 126.44 E H = 14 39 14.1 h = 51 km MB = 5.9 D = 104.36 Az = 323 (NEIS) XV A 1.9s 45.5nm LmH B 25 4.6/um M = 5.9 LmV B 18 2.5/um 5.8
	e A	53 20	
	eX A	53 23.5	
	e A	53 50.5	
	ePP B	57 36	
	iSKS B	15 03 52	
	eS B	04 52	
	ePS B	06 22	
	LmH B	37.6	
	LmV B	45.7	
3.	eSn A	16 12 33	<u>France</u> 44.11 N 6.54 E H = 16 09 21.6 h = 33 km D = 7.39 Az = 26 (NEIS)
3.	eP A	17 41 42	<u>Fox Islands, Aleutian Is.</u> 52.62 N 167.48 W H = 17 29 49.3 h = 33 km MB=4.7 MS=4.5 D = 77.11 Az = 1 (NEIS) PV A 1.4s 18.6nm M = 4.9

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Day	Phase	h m s	Remarks
4.	eP LmH LmV	A B B 02 13 18.5 24.1 24.3	<u>North Atlantic Ocean</u> 57.45 N 32.99 W H = 02 07 41.9 h = 33 km MB = 4.3 D = 26.65 Az = 85 (NEIS) LmH B 15s 0.5/um M = 4.2 LmV B 15 0.7/um 4.4
4.	ePKHKP	A 06 00 04	<u>Fiji Islands Region</u> 20.12 S 178.75 W H = 05 41 25.6 h = 631.1 km MB = 4.4 D = 148.46 Az = 347 (NEIS)
4.	ePKIKP ePKHKP	A A 07 33 51 33 53	<u>Fiji Islands Region</u> 18.11 S 178.21 W H = 07 15 02.7 h = 464.3 km MB = 5.0 D = 146.60 Az = 349 (NEIS) PKHKPV A 1.4s 14.0nm
4.	ePKIKP LmV LmH	A B B 08 52 08.5 09 51.6 52.2	<u>Easter Island Cordillera</u> 52.94 S 118.51 W H = 08 32 21.2 h = 33 km MB=5.3 MS=5.3 D = 149.56 Az = 74 (NEIS) PKIKPV A 2.0s 51.3nm LmH B 20 0.6/um M = 5.4 LmV B 20 0.7/um 5.4
4.	eP	A 16 44 30.5	<u>Sea of Okhotsk</u> 48.08 N 146.52 E H = 16 33 39.9 h = 456.7 km MB = 4.6 D = 74.30 Az = 332 (NEIS) PV A 1.2s 14.2nm M = 4.4
4.	eP e	A A 21 09 59 10 44	<u>Tadzhik SSR</u> 37.36 N 72.05 E H = 21 01 57.5 h = 145.6 km MB = 5.0 D = 44.25 Az = 307 (NEIS)
4.	LmH LmV	B B 22 41.8 44.3	<u>Off Coast of Northern California</u> 40.32 N 126.73 W H = 21 52 06.1 h = 15 km MB=5.1 MS=4.3 D = 82.34 Az = 25 (NEIS) LmH B 20s 0.7/um M = 5.0 LmV B 16 0.4/um 4.9

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Day	Phase	h m s	Remarks
5.	eP LmH LmV	A B B 16 12 46 54.2 58.5	<u>Ryukyu Islands</u> 28.81 N 130.14 E H = 16 00 16.9 h = 31.2 km MB=5.2 MS=4.1 D = 84.10 Az = 326 (NEIS) PV A 1.3s 19.6nm M = 5.1 LmH B 18 0.35/um 5.2
6.	eP LmH LmV	A B B 00 32 21 41.4 43.8	<u>Iceland Region</u> 63.53 N 23.5 W H = 00 27 22.0 h = 33 km D = 22.65 Az = 108 (ISC) LmH B 16s 0.30/um M = 3.8 LmV B 12 0.35/um 4.1
6.	ePn e ePg eSn eSg	A A A A A 03 30 17 30 24 30 26 30 51 31 02	<u>Svabian Jura Region Fed. Rep. of Germany</u> 48.33 N 9.09 E H = 03 29 33.0 h = 33 km D = 2.84 Az = 34 (NEIS)
6.	eP ePP eS eSS LmH LmV	A B B B B B 04 55 17 58(45) 05 05 45 12 00 27.6 27.6	<u>South of Panama</u> 5.28 N 82.65 W H = 04 42 23.6 h = 33 km MB=5.4 MS=5.5 D = 88.67 Az = 39 (NEIS) PV A 1.5s 30.2nm M = 5.4 PV B 5 0.55/um 6.1 LmH B 22.5 2.6/um 5.6 LmV B 24 1.0/um 5.2
6.	eP e ePPP eS LmV LmH	A A B B B B 08 58 34 58 44 02 20 06 40 29.6 29.8	<u>Lake Tanganyika Region</u> 6.18 S 29.54 E H = 08 48 38.2 h = 33 km MB = 5.1 D = 58.68 Az = 347 (NEIS) PV A 1.5s 32.6nm M = 5.2 LmH B 13 1.0/um 5.1 LmV B 13 0.9/um 5.1
6.	-iPKIKP iPKHKP iPKP2 epPKP esPKP ePP	AB A A B B B 11 47 09.5 47 15 47.21.5 49 27 50 27 50 48	<u>Fiji Islands Region</u> 21.07 S 178.57 W H = 11 28 31.5 h = 594.4 km MB = 5.8 D = 149.41 Az = 347 (NEIS) h = 610 km PKIKPV A 1.8s 94.5nm PKHKPV A 1.0 354.0nm

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Day	Phase	h m s	Remarks
cont. 6.	esPP	B 11 53 52	PKP2V A 1.4s 237.0nm
7.	ePn eSg	A 08 41 35.5 A 42 47.5	<u>Friuli, Italy</u> 46°31.2'N 13°17.5'E H = 08 40 25.8 h = 14 km (TRI) D = 4.28
7.	eP	A 09 08 37	<u>Iceland</u> 64.75 N 17.18 W H = 09 03 55.0 h = 10 km MB = 3.9 D = 20.62 Az = 119 (NEIS)
7.	ePKP	A 10 16 59.5	<u>Tonga Islands</u> 17.10 S 174.37 W H = 09 57 35.4 h = 152.6 km MB = 5.1 D = 146.19 Az = 353 (NEIS) PKPV A 1.6s 24.7nm
7.	LmV LmH	B 16 15.2 B 16.7	<u>Easter Island Cordillera</u> 34.99 S 107.8 W H = 15 03 39.3 h = 33 km MB = 5.2 (ISC) D = 134.1 LmH B 20s 0.35/um M = 5.0 LmV B 20 0.35/um 5.0
8.	eP	A 05 33 16	<u>Afghanistan - USSR Border Region</u> 36.62 N 71.15 E H = 05 25 27.4 h = 212.1 km MB = 4.9 D = 44.14 Az = 308 (NEIS) PV A 1.6s 71.5nm M = 4.9
8.	eP e LmH LmV	A 06 31 21.5 A 31 24 B 51.6 B 53.9	<u>Ethiopia</u> 10.94 N 39.63 E H = 06 23 02.4 h = 37.6 km MB = 5.0 D = 45.78 Az = 335 (NEIS) PV A 1.3s 35.0nm M = 5.1 LmH B 18.5 0.5/um 4.5 LmV B 17 0.4/um 4.6
8.	ePKIKP ePP	A 09 06 52 A 08 45	<u>Solomon Islands</u> 5.81 S 154.58 E H = 08 48 04.7 h = 127 km MB = 5.8 D = 125.67 Az = 332 (NEIS) PPV A 1.3s 35.0nm M = 5.2

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Day	Phase	h m s	Remarks
8.	e(PKHKP)	A 09 47 21.5	<u>South of Fiji Islands</u> 22.33 S 176.67 W H = 09 27 56.8 h = 269.3 km MB = 4.3 D = 151.0 Az = 349 (NEIS)
8.	eP epP LmV LmH	A 18 11 52 A 12 04 B 54.5 B 54.6	<u>Southwestern Ryukyu Islands</u> 23.92 N 123.54 E H = 17 59 23.0 h = 53.5 km MB=5.3 MS=4.2 D = 84.65 Az = 324 (NEIS) h = 43 km PV A 1.3s 13.1nm M = 4.9 LmH B 20 0.25/um 4.6 LmV B 18 0.25/um 4.6
8.	eP epP	A 20 10 31.5 A 10 52	<u>Southern Alaska</u> 61.17 N 150.86 W H = 19 59 39.9 h = 71.9 km MB = 4.7 D = 67.65 Az = 12 (NEIS) h = 82 km
8.	LmH LmV	B 23 00.1 B 07.5	<u>East China Sea</u> 28.80 N 127.79 E H = 22 13 15.1 h = 33 km MB = 5.0 (NEIS) D = 82.9 LmH B 18s 3.7/um M = 5.8 LmV B 14.5 4.0/um 6.0
9.	eP e LmH LmV	A 10 28 29 A 28 32 B 35.9 B 36.8	<u>Crete</u> 35.22 N 23.54 E H = 10 24 26.5 h = 73.5 km MB = 4.2 D = 17.68 Az = 334 (NEIS) LmH B 11s 0.3/um M = 3.8 LmV B 11 0.2/um 3.8
9.	LmH LmV	B 15 41.0 B 48.2	<u>East China Sea</u> 28.78 N 127.78 E H = 14 54 05.7 h = 31.4 km MB = 5.2 MS = 4.0 (NEIS) D = 82.9 LmH B 18.5s 2.6/um M = 5.6 LmV B 15 2.4/um 5.7

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Day	Phase	h m s	Remarks
9.	ePKIKP A	17 03 55.5	<u>Tonga Islands Region</u> 22.46 S 175.10 W
	ePKHKP A	04 01.5	H = 16 44 09.4 h = 33 km MB=5.5 MS=4.9
	ePKP2 A	04 09.5	D = 151.38 Az = 351 (NEIS)
	ePKP A	04 13	PKHKPV A 2.0s 102.5nm
	LmH B	18 12.5	LmH B 20 0.3/um M = 5.0
	LmV B	16.5	LmV B 18 0.3/um 5.1
9.	LmH B	21 06.8	<u>Northeastern China</u> 40.15 N 118.83 E
	LmV B	12.9	H = 20 27 52.4 h = 33 km MB = 4.9 (NEIS) D = 69.4 LmH B 18s 1.8/um M = 5.4 LmV B 13 0.8/um 5.2
10.	LmH B	01 17.2	<u>Atlantic-Indian Rise</u> 37.93 S 49.68 E
	LmV B	17.5	H = 00 15 58.8 h = 33 km MB=5.4 MS=4.6 D = 94.34 Az = 337 (NEIS) LmH B 18s 0.35/um M = 4.9 LmV B 18 0.35/um 4.9
10.	ePKIKP A	02 00 56.5	<u>South Sandwich Islands Region</u>
	e B	02 14	56.12 S 27.56 W
	eSP B	11 00	H = 01 42 36.5 h = 122.1 km MB = 6.1
	e B	11 48	D = 111.25 Az = 26 (NEIS)
	eSS B	17 10	LmH B 18.5s 0.7/um
	LmH B	44.6	LmV B 20 0.7/um
10.	ePKIKP AB	02 56 47.5	<u>New Hebrides Islands</u> 19.13 S 168.41 E
	eX A	56 51.5	H = 02 37 14.6 h = 11.9 km MB=5.5 MS=5.5
	LmV B	04 04.7	D = 143.55 Az = 335 (NEIS)
	LmH B	04.8	PKIKPV A 1.2s 18.3nm XV A 1.5 70.4nm LmH B 19 0.8/um M = 5.4 LmV B 19 0.9/um 5.5
10.	ePKHKP A	04 39 11	<u>Fiji Islands Region</u> 21.82 S 179.29 W
	ePKP2 A	41 38.5	H = 04 20 25.5 h = 581.5 km MB = 5.3 D = 149.98 Az = 346 (NEIS) PKHKPV A 1.2s 20.3nm

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Day	Phase	h m s	Remarks
10.	ePKIKP A	05 30 18.5	<u>Fiji Islands Region</u> 21.92 S 179.25 W
	ePKHKP A	30 26	H = 05 11 40.8 h = 607.0 km MB = 5.4
	ePKP2 A	30 34	D = 150.09 Az = 346 (NEIS)
	epPKHKP A	32 47.5	h = 642 km
	LmH B	06 45.0	PKIKPV A 1.6s 19.2nm
	LmV B	46.9	PKHKPV A 1.6 76.9nm PKP2V A 1.6 38.4nm LmH B 20 0.6/um LmV B 20 0.4/um
10.	ePKHKP A	09 18 03.5	<u>Fiji Islands Region</u> 20.82 S 178.81 W
	ePKP2 A	18 10	H = 08 59 18.7 h = 576.9 km MB = 4.2 D = 149.12 Az = 347 (NEIS)
11.	ePKIKP A	05 04 36	<u>Tonga Islands Region</u> 23.18 S 175.62 W
	ePKHKP A	04 44	H = 04 44 50.5 h = 41.5 km MB=4.6 MS=5.1 D = 152.01 Az = 350 (NEIS) PKIKPV A traces
11.	eP A	09 50 29	<u>Rat Islands, Aleutian Is.</u>
	eS B	10 00 32	51.41 N 176.31 E
	LmH B	27.1	H = 09 38 32.4 h = 12.7 km
	LmV B	34.6	MB = 5.1 MS = 4.8 (NEIS) D = 77.6 PV A 1.2s 20.3nm M = 5.1 LmH B 18 0.8/um 5.1 LmV B 16 0.6/um 5.1
	eP A	12 47 34	<u>Kurile Islands</u> 48.03 N 155.75 E
	e A	47 41	H = 12 35 42.1 h = 33 km MB = 5.0 MS = 4.7 (NEIS) D = 77.1 PV A 1.5s 22.6nm M = 5.0 LmH B 17.5 0.5/um 4.9 LmV B 20 0.7/um 5.0
11.	LmH B	13 25.2	
	LmV B	25.4	
11.	LmH B	17 05.5	<u>Solomon Islands</u> 8.87 S 157.46 E
	LmV B	15.5	H = 15 56 08.6 h = 59 km MB = 5.1 (NEIS) D = 129.8

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Day	Phase	h m s	Remarks
11.	ePKP	A 19 30 23	<u>New Hebrides Region</u> 19.15 S 168.46 E H = 19 10 51.2 h = 20.4 km MB = 5.3 (NEIS) D = 143.6 PKPV A 1.5s 15.1nm
11.	LmH LmV	B 23 40.5 B 48.3	<u>West Irian Region</u> 0.51 N 134.96 E H = 22 39 52.2 h = 33 km MB = 5.6 MS = 4.9 (NEIS) D = 110.9 LmH B 19s 1.1/um M = 5.5 LmV B 20 0.9/um 5.4
12.	eP	A 13 36 56	<u>Dodecanese Islands</u> 36.62 N 26.97 E H = 13 32 56.5 h = 157 km MB = 4.4 D = 17.84 Az = 327 (ISC) PV A 1.8s 23.6nm M = 4.2
13.	eP eS eSS LmH LmV	AB 08 17 42 B 24 32 B 28 08 B 41.5 B 44.9	<u>Pakistan</u> 29.88 N 67.45 E H = 08 09 15.7 h = 9.7 km MB = 5.1 MS = 5.5 (NEIS) D = 46.2 PV A 2.3s 183.0nm M = 5.6 PV B 2.5 0.4/um 5.9 LmH B 16 4.5/um 5.5 LmV B 13 2.2/um 5.4
13.	ePKP2 LmH LmV	A 14 25 49 B 15 45.0 B 45.0	<u>Tonga Islands Region</u> 23.24 S 175.31 W H = 14 06 00.0 h = 63 km MB = 5.0 MS = 5.0 (NEIS) D = 152.1 LmH B 18s 0.2/um LmV B 18 0.25/um
13.	iPg i iSg	A 14 50 16.0 A 50 28.5 A 50 30.5	<u>Taucha, German Democrat. Rep. (CLL)</u> D c. 1.0

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Day	Phase	h m s	Remarks
14.	eP LmH LmV	A 00 43 17 B 51.3 B 51.4	<u>Dodecanese Islands</u> 36.22 N 27.71 E H = 00 39 01.4 h = 33 km MB = 4.1 (NEIS) D = 18.5 LmH B 10s 0.4/um M = 4.0 LmV B 10 0.3/um 4.0
14.	+iP ePP eS LmH LmV	AB 05 56 18.5 AB 57 39 B 06 02 05 B 13.9 B 15.6	<u>Uzbek SSR</u> 40.32 N 63.68 E H = 05 49 08.7 h = 33 km MB = 5.5 MS = 5.4 (NEIS) D = 37.2 PV A 1.5s 95.5nm M = 5.5 PPV A 1.7 78.8nm 5.4 LmH B 14 4.0/um 5.4 LmV B 15 3.0/um 5.3
14.	eP LmH LmV	A 07 20 15 B 29.2 B 30.2	<u>Iceland</u> 64.47 N 17.49 W H = 07 15 37.2 h = 33 km MB = 4.7 (NEIS) D = 20.7 PV A 1.6s 68.7nm M = 4.8 LmH B 16 0.8/um 4.2 LmV B 18 0.4/um 4.0
14.	eP	A 15 31 28	<u>Southern Iran</u> 26.97 N 53.50 E H = 15 23 57.3 h = 33 km MB = 4.3 (NEIS) D = 39.5 traces
14.	LmH LmV	B 21 15.0 B 16.2	<u>Northeastern China</u> 39.77 N 118.26 E H = 20 36 14.8 h = 33 km MB = 4.7 (NEIS) D = 69.5 LmH B 19.5s 1.6/um M = 5.3 LmV B 16 0.5/um 4.9
15.	eP	A 01 48 04	<u>Kazakh - Sinkiang Border Region</u> 48.56 N 86.81 E H = 01 39 35.8 h = 33 km (NEIS) D = 46.7

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Day	Phase	h m s	Remarks
15.	eP	AB 02 25 22	<u>Taiwan Region</u> 24.05 N 122.21 E
	eSKS	B 35 42	H = 02 12 54.4 h = 33.4 km
	eS	B 35 56	MB = 5.5 MS = 5.7 (NEIS)
	LmH	B 03 07.0	D = 83.8
	LmV	B 07.1	PV A 1.8s 101.2nm M = 5.7 LmH B 16 5.0/um 6.0 LmV B 17 6.9/um 6.1
15.	LmV	B 06 02.4	<u>Easter Island Region</u> 29.39 S 112.30 W
	LmH	B 03.8	H = 04 46 08.7 h = 33 km MB = 5.2 MS = 5.6 (NEIS) D = 133.4 LmH B 17s 0.6/um M = 5.3 LmV B 18 0.7/um 5.4
15.	ePg	A 09 05 20.5	<u>Northern Italy</u> (BAF)
	eSg	A 06 15	D c. 4.1
15.	ePKHKP	A 24 06 31	<u>South of Fiji Islands</u> 22.06 S 176.35 W H = 23 46 40.2 h = 54 km MB = 4.9
16.	ePKP	A 11 36 11	<u>Tonga Islands Region</u> 18.66 S 172.78 W
	e	A 36 21	H = 11 16 29.4 h = 50.5 km MB = 4.9 MS = 4.6 (NEIS) D = 148.0
16.	-iPn	AB 13 14 43	<u>Yugoslavia</u> 46.29 N 14.29 E
	iPg	A 15 00	H = 13 13 29.6 h = 6.3 km MB = 4.6 (NEIS)
	iSn	A 15 35	D = 4.7
	iSg	A 15 59	PnV A 0.8s 269.0nm
	LmH	B 16.2	LmH B 7 6.2/um M = 5.2
	LmV	B 16.2	
16.	ePKIKP	A 23 58 12	<u>Kermadec Islands Region</u>
	ePKHKP	A 58 19	27.46 S 176.72 W
	ePKP2	A 58 38	H = 23 38 21.4 h = 33 km MB=5.5 MS=4.6
	LmH	B 25 08.0	D = 156.0 (NEIS)
	LmV	B 08.0	PKIKPV A traces

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Day	Phase	h m s	Remarks
17.	eP	A 09 05 43	<u>Turkey</u> 38.64 N 39.85 E H = 09 00 33.1 h = 33 km MB = 4.3 D = 23.25 Az = 310 (NEIS) traces
17.	eP	A 09 28 13	<u>svalbard Region</u> 77.86 N 18.33 E H = 09 22 24.5 h = 10 km MB = 4.5 (NEIS) D = 27.4
17.	ePKP2	A 10 47 06	<u>Balleny Islands Region</u> 62.89 S 168.22 E
	LmV	B 12 06.5	H = 10 26 19.0 h = 33 km
	LmH	B 09.7	MB = 5.6 MS = 5.2 (NEIS) D = 162.4 PKP2V A 2.5s 122.9nm LmH B 17.5 0.5/um M = 5.3 LmV B 20 0.8/um 5.5
17.	LmH	B 22 43.5	LmV B 18s 0.3/um
	LmV	B 43.5	
18.	e	A 10 12 15.5	<u>Albania</u> 41.56 N 20.07 E H = 10 09 15.6 h = 42.5km MB = 4.8 D = 10.81 Az = 330 (NEIS)
18.	eP1	A 14 30 55	<u>Hindu Kush Region</u> 35.53 N 70.31 E
	eP2	A 30 58	H = 14 22 52.6 h = 68.8 km MB = 5.2
	LmH	B 52.6	D = 44.28 Az = 309 (NEIS)
	LmV	B 52.7	P1V A traces P2V A 1.1s 30.2nm M = 5.0 LmH B 16 0.4/um LmV B 12 0.4/um
18.	ePKP	A 18 51 30	<u>Tonga Islands</u> 15.65 S 175.46 W
	LmH	B 19 52.0	H = 18 31 52.2 h = 33 km MB=5.2 MS=5.0 D = 144.63 Az = 352 (NEIS)
18.	ePKHKP	A 21 44 56	<u>South of Fiji Islands</u> 22.19 S 179.61 W
	ePKP2	A 45 05	H = 21 26 08.1 h = 573.0 km MB = 5.3 D = 150.27 Az = 346 (NEIS)

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Moxa

Day	Phase	h m s	Remarks
18.	LmH B LmV B	22 37.1 37.2	<u>Off Coast of Northern California</u> 40.38 N 125.36 W H = 21 49 28.6 h = 15 km MB = 4.8 MS = 3.9 (NEIS) D = 81.8 LmH B 17.5s 0.6/um M = 5.0 LmV B 16 0.5/um 5.0
20.	eP1 A eP2 A	13 36 03 36 05.5	<u>Alaska Peninsula</u> 54.61 N 161.60 W H = 13 24 25.9 h = 53.0 km MB = 5.3 D = 74.96 Az = 4 (NEIS) P1V A 0.9s 15.6nm M = 4.9 P2V A 1.2 38.6nm 5.2
21.	eP A	02 31 26	<u>Alaska Peninsula</u> 56.44 N 157.18 W H = 02 20 05.3 h = 91.1 km MB = 4.4 D = 72.88 Az = 7 (NEIS)
21.	LmH B LmV B	05 43.3 43.3	LmH B 14s 0.2/um LmV B 15 0.3/um
21.	ePKP A	07 20 26.5	<u>New Hebrides Islands</u> 18.73 S 169.16 E H = 07 01 21.7 h = 232.8 km MB = 5.1 D = 143.49 Az = 336 (NEIS) PKPV A 1.5s 15.1nm
21.	eP A	09 43 56	<u>Nicobar Islands Region</u> 7.06 N 94.39 E H = 09 31 42.5 h = 33 km MB = 4.7 D = 80.00 Az = 320 (NEIS) FV A 1.5s 17.6nm M = 4.8
21.	ePKIKP A eiPKIKP AB eiPKP2 AB +iPP B -iPP A eiPPP B	12 13 15 13 20 14 01 17 40 17 42 21 14	<u>Macquarie Islands Region</u> 53.86 S 158.60 E H = 11 53 22.5 h = 33 km MB=6.4 MS=6.7 D = 159.64 Az = 274 (NEIS) PKIKPV A 3.0s 973.7nm PKIKP B 12 11.3/um PPV A 2.3 560.3nm M = 6.3 PPV B 10 12.1/um 7.0 superposed by the following earthquake

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Day	Phase	h m s	Remarks
21.	+iP A iS B eSP B LmV B LmH B	13 58 50 14 09 34 10 38 45.2 45.3	<u>Luzon, Philippine Islands</u> 16.88 N 122.36 E H = 13 45 54.0 h = 33 km MB=6.1 MS=6.9 D = 89.62 Az = 323 (NEIS) FV A 1.5s 196.0nm M = 6.2 SH B 18 17.8/um 6.8 LmH B 16 101.5/um 7.4 LmV B 15 125.0/um 7.5
21.	e A	19 08 36	<u>Luzon, Philippine Islands</u> 17.21 N 122.43 E H = 18 55 34.6 h = 45.9 km MB = 5.1 D = 89.40 Az = 323 (NEIS)
21.	eP A	23 42 38	<u>Tibet</u> 30.29 N 94.85 E H = 23 32 12.1 h = 33 km MB = 5.0 (NEIS) D = 63.2
22.	ePKP2 A	00 39 58	<u>Kermadec Islands Region</u> 30.84 S 178.81 E H = 00 20 27.1 h = 558 km MB = 4.8 (NEIS) D = 158.0
22.	+iPKIKP AB +iPKP2 A ePP A LmH B LmV B	17 36 37.2 37 22.7 41 01 18 53.5 53.9	<u>South of Kermadec Islands</u> 33.80 S 179.72 W H = 17 16 40.3 h = 31.4 km MB=6.0 MS=5.9 D = 161.22 Az = 337 (NEIS) PKIKPV A 1.9s 121.0nm PKP2V A 2.1 249.0nm PPV A 2.2 65.4nm M = 5.4 LmH B 22 1.7/um 5.7 LmV B 22 2.6/um 6.0
22.	epP A	20 59 50.5	<u>Peru - Bolivia Border Region</u> 15.56 S 69.93 W H = 20 45 46.4 h = 202 km MB = 5.0 (NEIS) D = 96.7
23.	eP AB ePP B eS B eSS B	07 05 44.5 07 45 12 55 15 48	<u>Northern Sinkiang Prov., China</u> 42.20 N 83.39 E H = 06 57 03.7 h = 33 km MB=5.1 MS=5.1 D = 48.40 Az = 306 (NEIS)

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Day	Phase	h m s	Remarks
cont. 23.	LmH B	07 24.2	PV A 1.8s 33.8nm M = 5.0
	LmV B	27.1	LmH B 12 2.5/um 5.4 LmV B 10 2.4/um 5.5
23.	ePKHKP A	09 33 37.5	<u>Fiji Islands Region</u> 21.64 S 176.43 W H = 09 14 19.7 h = 293.8 km MB = 4.9 D = 150.37 Az = 350 (NEIS) PKHKPV A 0.9s 19.5nm
23.	+1P A	13 56 36	<u>Alaska Peninsula</u> 54.32 N 162.41 W H = 13 44 54.6 h = 27.4 km MB=5.1 MS=4.4 D = 75.29 Az = 4 (NEIS) PV A 1.4s 93.0nm M = 5.6
23.	ePn A	20 17 07	West Poland (CLL)
	iSg A	17 47.5	D c. 2.5
24.	ePKP AB	06 42 24.5	<u>Tonga Islands</u> 15.34 S 173.15 W H = 06 22 51.3 h = 33 km MB=6.0 MS=6.2 D = 144.57 Az = 355 (NEIS)
	e B	44 40	
	eSS B	07 04 10	
	LmH B	50.5	PKPV A 1.5s 138.1nm
	LmV B	50.7	PKPV B 10 3.9/um LmH B 19 7.4/um M = 6.4 LmV B 19 5.8/um 6.4
24.	ePn A	09 57 51	<u>Southern Italy</u> 41.07 N 15.19 E
	e A	57 54	H = 09 55 27.5 h = 33 km
	eSn A	59 34	D = 9.90 Az = 347 (NEIS)
24.	eP A	20 08 33	<u>Mariana Islands</u> 19.50 N 144.72 E
	eiFP AB	12 41	H = 19 55 36.8 h = 409 km MB = 5.4 D = 98.89 Az = 332 (NEIS)
	LmH B	48.4	
	LmV B	57.5	PV A 1.8s 54.1nm M = 5.7 PPV A 1.6 142.9nm 5.8 LmH B 17.5 0.7/um LmV B 16 0.5/um

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Day	Phase	h m s	Remarks
25.	LmH B	00 45.8	<u>Sakhalin Island</u> 51.78 N 143.02 E
	LmV B	54.1	H = 00 05 53.3 h = 43 km MB = 4.7 MS = 4.7 (NEIS) D = 73.2 LmH B 18s 1.1/um M = 5.2 LmV B 13 0.3/um 4.8
25.	eP A	05 03 40.5	<u>Caribbean Sea</u> 17.86 N 81.66 W H = 04 51 40.6 h = 33 km MB=4.9 MS=4.0 D = 78.44 Az = 40 (NEIS) PV A 1.2s 16.3nm M = 4.9
25.	eP A	10 44 45	<u>Kurile Islands</u> 44.26 N 149.77 E H = 10 32 44.4 h = 33 km MB = 5.0 D = 78.72 Az = 334 (NEIS)
25.	eP A	22 33 02.5	<u>Crete</u> 35.10 N 23.78 E
	LmH B	41.4	H = 22 28 54.9 h = 46.3 km MB = 4.3
	LmV B	41.4	D = 17.88 Az = 334 (NEIS) LmH B 14s 0.45/um M = 3.9 LmV B 14 0.7/um 4.2
25.	ePKIKP A	23 00 35	<u>New Hebrides Islands</u> 19.16 S 168.42 E
	e A	00 42	H = 22 41 04.5 h = 30.1 km MB = 5.1 D = 143.58 Az = 335 (NEIS)
26.	ePKP A	10 47 35	<u>Samoa Islands Region</u> 16.19 S 172.29 W
			H = 10 27 59.9 h = 41 km MB = 4.8 D = 145.49 Az = 356 (NEIS) PKPV A 1.2s 26.4nm
27.	iPKP A	03 14 46	<u>Tonga Islands</u> 17.07 S 173.44 W
	epPKP A	14 57	H = 02 55 08.5 h = 46 km MB = 4.8 D = 146.26 Az = 354 (NEIS) h = 40 km PKPV A 1.2s 57.0nm
27.	ePg A	07 51 53	<u>Switzerland</u> 46.54 N 7.22 E
	eSn A	52 35	H = 07 50 19.3 h = 10 km

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Day	Phase	h m s	Remarks
cont. 27.	eSg	A 07 53 04	D = 5.04 Az = 34 (NEIS)
27.	ePKP	A 08 29 35	<u>Samoa Islands Region</u> 15.85 S 171.91 W H = 08 09 58.8 h = 33 km MB = 4.6 D = 145.18 Az = 356 (NEIS) PKPV A 1.3s 26.2nm
27.	ePn	A 14 00 55	<u>Czechoslovakia</u> 50.54 N 14.65 E
	eSg	A 01 24	H = 14 00 19.2 h = 0 km D = 1.94 Az = 274 (ISC)
27.	eP	A 17 38 10.5	<u>Luzon, Philippine Islands</u>
	LmH	B 18 24.3	17.06 N 122.50 E
	LmV	B 24.3	H = 17 25 16.2 h = 41.1 km MB=5.4 MS=4.0 D = 89.55 Az = 323 (NEIS) PV A 1.3s 21.8nm M = 5.3 LmH B 17.5 0.4/um 4.9 LmV B 17 0.4/um 5.0
27.	ePKHKP	A 24 16 37	<u>Fiji Islands Region</u> 21.23 S 178.12 W
	ePKP2	A 16 45	H = 23 57 33.0 h = 389.7 km MB = 4.2 D = 149.66 Az = 348 (NEIS)
28.	LmH	B 01 53.2	LmH B 16s 0.5/um
	LmV	B 53.4	LmV B 18 0.7/um
28.	eP1	A 01 57 10	<u>North of Ascension Island</u>
	eP2	A 57 13	1.15 S 14.04 W
	ePP	B 59 16	H = 01 47 32.7 h = 33 km MB=5.3 MS=5.3
	ePPP	B 02 00 30	D = 56.05 Az = 19 (NEIS)
	eS	B 04 55	P2V A 1.2s 65.0nm M = 5.5
	LmH	B 20.4	P2V B 8 0.9/um 5.8
	LmV	B 21.8	LmH B 16.5 4.5/um 5.6 LmV B 16.5 3.4/um 5.6
28.	LmV	B 07 49.1	<u>Near N. Coast of West Irian</u>
	LmH	B 50.4	1.87 S 138.85 E H = 06 37 54.3 h = 53 km MB = 5.1 (NEIS) D = 114.2 LmH B 18s 0.3/um LmV B 17s 0.3/um

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Day	Phase	h m s	Remarks
28.	eP	AB 15 34 27.5	<u>Off Coast of Oregon</u> 44.24 N 128.97 W
	eS	B 44 30	H = 15 22 18.5 h = 15 km MB = 5.1 MS=5.4
	LmH	B 16 12.1	D = 79.48 Az = 24 (NEIS)
	LmV	B 12.1	LmH B 16.5s 2.1/um M = 5.6 LmV B 16 3.1/um 5.8
29.	LmH	B 00 56.2	<u>Ryukyu Islands</u> 27.14 N 129.34 E
	LmV	B 56.3	H = 00 00 18.0 h = 30 km MB = 4.9 D = 85.07 Az = 326 (NEIS) LmH B 14s 0.3/um M = 4.8 LmV B 14 0.4/um 5.0
29.	eP	A 09 22 20.5	<u>Southern Sinkiang Prov., China</u>
	epP	A 22 51	38.19 N 75.17 E
	eSS	B 32 35	H = 09 14 08.3 h = 102.4 km MB = 5.2
	LmH	B 43.3	D = 45.72 Az = 307 (NEIS)
	LmV	B 43.3	h = 140 km PV A 1.8s 67.5nm M = 5.2 LmH B 14 0.3/um LmV B 13 0.4/um
29.	eP diff	B 11 31 42	<u>Solomon Islands</u> 8.03 S 155.53 E
	ePKIKP	AB 34 51	H = 11 15 45.3 h = 33 km MB=6.4 MS=7.2
	iPP	AB 36 54	D = 128.07 Az = 332 (NEIS)
	iSKP	B 38 16	PKIKPV A 1.6s 115.0nm
	iSS	B 54 12	LmH B 19 58.0/um M = 7.3
	iPKPPKS	B 56 33	LmV B 21 70.9/um 7.3
	LmV	B 12 34.2	
	LmH	B 34.8	
29.	eiPKHKP	A 17 10 38.5	<u>Tonga Islands</u> 19.47 S 175.04 W
			H = 16 51 06.0 h = 129 km MB = 5.1 D = 148.44 Az = 352 (NEIS) PKHKPV A 0.8s 30.8nm
29.	ePKHKP	A 20 46 03.5	<u>South of Fiji Islands</u> 23.61 S 179.15 E
	ePKP2	A 46 14	H = 20 27 12.1 h = 549.5 km MB = 5.1 D = 151.32 Az = 343 (NEIS) PKHKPV A 1.2s 14.2nm

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Day	Phase	h m s	Remarks
29.	eP	A 21 19 02	<u>Southern Sumatra</u> 2.36 S 99.98 E H = 21 05 59.5 h = 33 km MB = 5.3 D = 90.77 Az = 320 (NEIS)
29.	ePn	A 21 56 32.5	<u>Yugoslavia</u> 44.92 N 17.48 E
	eSn	A 57 49.5	H = 21 54 47.8 h = 10 km
	eSg	A 58 33	D = 6.95 Az = 328 (NEIS)
29.	eP	A 22 36 27	<u>Luzon, Philippine Islands</u>
	eSKS	B 46 45	18.65 N 121.06 E
	LmH	B 23 19.3	H = 22 23 41.2 h = 40.1 km MB=5.2 MS=4.5
	LmV	B 20.5	D = 87.47 Az = 323 (NEIS)
			PV A traces
			LmH B 18s 0.6/um M = 5.0
			LmV B 17 0.7/um 5.2
30.	+iP	A 02 04 46	<u>Eastern Kazakh SSR</u> 49.78 N 78.16 E
	ePn	A 06 19	H = 01 56 58.0 h = 0 km MB = 5.3 D = 41.29 Az = 298 (NEIS) PV A 0.8s 26.9nm M = 5.0
30.	eP	AB 07 40 54	<u>North of Ascension Island</u>
	eS	B 48 56	3.18 S 12.20 W
	eSS	B 52 12	H = 07 31 07.0 h = 33 km
	LmH	B 08 06.2	MB = 5.1 MS = 4.7 (NEIS)
	LmV	B 06.2	D = 53.6
			PV A 2.6s 121.0nm M = 5.4
			LmH B 16 0.6/um 4.7
			LmV B 16 1.0/um 5.0
30.	eP	A 16 14 38	<u>Jan Mayen Island Region</u> 71.88 N 1.91 W
	eS	B 18 50	H = 16 09 43.7 h = 33 km MB = 4.4
	LmV	B 25.5	D = 22.16 Az = 157 (NEIS)
			PV A 1.4s 23.3nm M = 4.4
			LmV B 12 0.35/um 4.1
30.	eP	A 19 55 15	<u>Southern Greece</u> 36.84 N 21.65 E H = 19 51 37.5 h = 50.8 km MB = 4.8 D = 15.57 Az = 336 (NEIS)

July 1977

Moxa

Day	Phase	h m s	Remarks
cont. 30.	LmH	B 20 02.4	LmH B 16s 1.0/um M = 4.1
	LmV	B 02.4	LmV B 15 1.0 4.3
31.	ePKP	A 03 01 16	<u>South of Fiji Islands</u> 19.41 S 176.02 E H = 02 41 34.2 h = 15.4 km MB = 5.0 D = 146.46 Az = 342 (NEIS)
31.	epP	A 24 10 39	<u>Burma</u> 20.22 N 94.00 E
	e	A 10 52	H = 23 59 25.8 h = 90.6 km MB = 4.5 D = 69.87 Az = 318 (NEIS)

August 1977

Moxa

Day	Phase	h m s	Remarks
1.	LmH B LmV B	02 07.9 07.9	<u>Talau Islands</u> 4.06 N 126.94 E H = 01 01 22.2 h = 58 km MB = 5.2 D = 102.55 Az = 324 (NEIS) LmH B 20s 0.7/um M = 5.2 LmV B 20 0.7/um 5.2
1.	ePKHKP A epPKP A	10 40 47 40 56	<u>Loyalty Islands Region</u> 23.28 S 170.30 E H = 10 20 58.4 h = 23.6 km MB = 5.2 D = 148.04 Az = 334 (NEIS)
1.	-iPKP AB e A epPKP AB	13 52 14.5 52 31 52 43	<u>New Hebrides Islands</u> 20.49 S 169.62 E H = 13 32 48.8 h = 108 km MB = 5.5 (NEIS) D = 145.0 h = 100 km PKPV A 1.9s 24.2nm
1.	ePKIKP A iPKHKP A iPKP2 A	19 30 33.5 30 38 30 43.5	<u>Fiji Islands Region</u> 20.04 S 178.21 W H = 19 11 57.4 h = 599.1 km MB = 5.3 D = 148.49 Az = 348 (NEIS) PKHKPV A 1.2s 85.5nm PKP2V A 1.2 40.7nm
2.	ePKHKP A LmH B LmV B	00 34 46 02 10.2 10.2	<u>Fiji Islands Region</u> 17.73 S 178.78 W H = 00 16 06.3 h = 552.3 km MB = 4.8 (NEIS) D = 146.1 LmH B 15s 0.4/um LmV B 16 0.5/um
2.	eP A LmV B LmH B	02 34 02 03 08.7 09.2	<u>Andreanof Islands, Aleutian Is.</u> 51.22 N 175.34 W H = 02 22 02.4 h = 19 km MB = 4.4 MS = 4.3 (NEIS) D = 78.3 LmH B 16s 0.2/um M = 4.5 LmV B 16 0.3/um 4.8
2.	eP A	06 10 26	<u>Aegean Sea</u> 38.54 N 25.76 E H = 06 06 45.0 h = 33 km (NEIS) D = 15.8

August 1977

Moxa

Day	Phase	h m s	Remarks
2.	e A e A	13 01 56 02 03	<u>Czechoslovakia</u> 50.25 N 12.66 E H = 13 01 30.6 h = 0 km D = 0.78 Az = 301 (ISC)
2.	epP A ePP A	20 07 10 10 36	<u>Bonin Islands Region</u> 27.37 N 142.01 E H = 19 54 00.6 h = 33 km MB = 5.0 D = 90.82 Az = 331 (NEIS)
3.	eP A	01 23 33	<u>Tibet</u> 30.32 N 94 92 E H = 01 13 06.8 h = 32.9 km MB = 4.7 D = 63.16 Az = 315 (NEIS) traces
3.	eP A	02 37 30	<u>Panama - Colombia Border Region</u> 8.08 N 77.47 W H = 02 25 04.4 h = 33 km MB = 4.7 D = 83.24 Az = 40 (NEIS) PV A 2.0s 11.9nm M = 4.6
3.	ePKHKP AZ e A ePKP2 A	11 20 08.5 20 12 20 20	<u>South of Fiji Islands</u> 23.04 S 176.30 W H = 11 00 25.1 h = 115 km MB = 4.8 D = 151.76 Az = 349 (NEIS) PKHKPV A 1.2s 20.3nm
3.	ePn A eSn A eSg A	11 22 14 23 51 24 52	<u>Yugoslavia</u> 43.14 N 17.62 E H = 11 20 10.3 h = 10 km (CSEM) D = 8.6
3.	eP A	15 28 44	<u>Tibet</u> 30.30 N 94.90 E H = 15 18 17.2 h = 33 km MB = 4.8 D = 63.16 Az = 315 (NEIS)
4.	ePKP A epPP A eSP B ePKKP A e A eSPP B eSS B	01 29 32 30 38 39 35 40 30 40 37 40 40 45 30	<u>South Sandwich Islands Region</u> 56.01 S 27.79 W H = 01 11 11.3 h = 111.5 km MB = 6.1 D = 111.21 Az = 26 (NEIS) LmH B 17.5s 0.5/um LmV B 20 0.5/um

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Moxa

Day	Phase	h m s	Remarks
cont. 4.	LmV B	02 12.2	
	LmH B	13.0	
4.	eP AB	13 33 29.5	<u>Near Coast of Nicaragua</u> 12.35 N 87.29 W
	epP A	33 48	H = 13 20 52.5 h = 33 km
	ePPS B	45 30	MB = 5.4 MS = 5.0 (NEIS)
	eSS B	49 40	D = 86.2 h = 71 km
	LmV B	14 09.5	LmH B 18.5s 0.7 μ m
	LmH B	10.2	LmV B 20 0.8 μ m
4.	eP A	16 52 18	<u>Southern Nevada</u> 37.09 N 116.01 W
	ePP A	55 19	H = 16 40 00.1 h = 0 km MB=5.0 MS=5.7 D = 81.24 Az = 31 (NEIS) FPV traces PV A 1.3s 21.8nm M = 5.0
5.	eP A	13 24 21	<u>Crete</u> 34.27 N 25.80 E
	eS B	28 00	H = 13 19 54.8 h = 24.3 km MB = 4.4
	LmH B	33.4	D = 19.37 Az = 332 (NEIS)
	LmV B	33.4	LmH B 13s 0.5 μ m M = 4.0 LmV B 15 0.7 μ m 4.3
6.	ePKIKP A	05 46 31.5	<u>South of Fiji Islands</u> 22.22 S 175.98 W
	ePKHPK A	46 36	H = 05 26 56.0 h = 121.6 km MB = 5.1 D = 151.01 Az = 350 (NEIS)
6.	iPKIKP A	11 45 09	<u>Solomon Islands</u> 7.08 S 155.83 E
	ePP A	47 12	H = 11 26 12.2 h = 82.5 km MB = 5.4 D = 127.37 Az = 332 (NEIS) PKIKPV A 1.2s 36.6nm
6.	ePKHKP A	12 12 33	<u>Tonga Islands</u> 18.62 S 174.10 W
	ePKP2 A	12 36	H = 11 52 50.6 h = 44.5 km ME=5.2 MS=4.6 D = 147.72 Az = 353 (NEIS) FKHKPV A 1.2s 24.4nm
6.	eP A	23 56 02	<u>Near East Coast of Honshu, Japan</u> 35.49 N 140.82 E H = 23 43 39.7 h = 51.7 km MB = 4.8 D = 83.26 Az = 330 (NEIS)

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Day	Phase	h m s	Remarks
7.	ePKIKP AB	02 04 30	<u>Santa Cruz Islands</u> 12.37 S 166.30 E
	e A	04 40	H = 01 45 09.3 h = 36.2 km MB=5.2 MS=5.7
	ePP AB	07 12	D = 136.59 Az = 337 (NEIS)
	ePKS AB	08 16	LmH B 19s 0.8 μ m M = 5.5
	ePKKP A	14 17	LmV B 18 0.8 μ m 5.5
	LmH B	03 08.8	
	LmV B	10.4	
7.	eP AB	07 20 46	<u>Panama - Costa Rica Border Region</u>
	e A	21 08	8.55 N 82.75 W
	eSKS B	31 12	H = 07 08 05.6 h = 33 km MB=5.2 MS=5.7
	ePS B	32 20	D = 86.22 Az = 40 (NEIS)
	eSS B	37 12	LmH B 21.5s 6.2 μ m M = 6.0
	eSSS B	40 10	LmV B 21 6.4 μ m 6.0
	LmH B	53.3	
	LmV B	54.1	
7.	eP A	11 45 13	<u>Carlsberg Ridge</u> 3.57 N 62.75 E
	eS B	53 48	H = 11 34 43.5 h = 33 km MB=4.8 MS=5.1
	LmH B	12 19.6	D = 63.48 Az = 326 (NEIS) LmH B 20s 0.35 μ m M = 4.5
7.	ePn A	13 27 55	<u>Austria</u> 47.28 N 10.82 E
	e A	28 12	H = 13 27 03.0 h = 36 km
	eSn A	28 36	D = 3.41 Az = 9 (ISC)
	eSg A	28 50	
7.	ePKHKP A	17 06 17	<u>Tonga Islands Region</u> 23.02 S 175.02 W
			H = 16 46 24.7 h = 33 km MB = 5.0 (NEIS) D = 152 traces
7.	epP A	23 39 08	<u>Andreanof Islands, Aleutian Is.</u>
			52.35 N 176.32 W H = 23 26 53.5 h = 125 km MB = 5.3 (NEIS) D = 77.2
8.	ePn A	03 12 08	<u>Austria</u> 47.49 N 15.88 E
	iPg A	12 21	H = 03 11 01.2 h = 8.5 km

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Day	Phase	h m s	Remarks
cont. 8.	iSn	A 03 12 54	D = 4.22 Az = 320 (NEIS)
	iSg	A 13 11	
8.	eP	A 07 12 36.5	<u>Near West Coast of Colombia</u>
	epP	A 12 43	6.93 N 77.78 W H = 07 00 06.3 h = 33 km MB=5.2 MS=4.6 D = 84.31 Az = 40 (NEIS) h = 23 km PV A 1.6s 33.0nm M = 5.3
8.	ePP	A 13 20 15	<u>Solomon Islands</u> 10.57 S 161.33 E
	LmV	B 14 19.0	H = 12 58 45.0 h = 31.7 km MB=5.8 MS=5.5
	LmH	B 19.4	D = 132.93 Az = 334 (NEIS) LmH B 20s 1.2/um M = 5.6 LmV B 20 1.1/um 5.6
8.	e(PKP)	A 14 29 12	<u>West of Macquarie Island</u> 55.08 S 145.66 E H = 14 09 01.3 h = 33 km MB = 5.0 D = 152.30 Az = 280 (NEIS)
8.	ePKIKP	A 15 24 23.5	<u>Fiji Islands Region</u> 17.81 S 178.69 W
	ePKHKP	A 24 25	H = 15 05 46.5 h = 561.9 km MB = 5.1 D = 146.22 Az = 348 (NEIS) PKHKPV A 1.5s 40.2nm
8.	ePKHKP	A 17 34 22	<u>Tonga Islands Region</u> 23.28 S 174.94 W
	ePKP2	A 34 32	H = 17 14 27.6 h = 34.5 km MB = 4.9 D = 152.21 Az = 351 (NEIS)
8.	ePKHKP	A 22 39 56.5	<u>South of Fiji Islands</u> 23.81 S 179.39 W
	ePKP2	A 40 08	H = 22 20 51.5 h = 436.2 km MB = 5.2 D = 151.87 Az = 345 (NEIS)
8.	eP	A 23 37 44	<u>Northern Sumatra</u> 3.56 N 98.05 E
	epP	A 38 13	H = 23 25 18.5 h = 112 km MB = 4.7 D = 85.0 Az = 320 (NEIS) h = 121 km pPV A 1.4s 18.6nm

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Day	Phase	h m s	Remarks
9.	eP	A 01 46 20	<u>North Atlantic Ridge</u> 30.96 N 41.49 W H = 01 38 16.6 h = 33 km MB=4.5 MS=4.1 D = 43.69 Az = 47 (NEIS)
9.	ePg	A 15 33 44	<u>France</u> 44.57 N 6.89 E
	eSg	A 35 07	H = 15 31 26.6 h = 33 km (NEIS) D = 6.9
9.	LmH	B 19 09.7	<u>Santa Cruz Islands</u> 12.60 S 165.93 E
	LmV	B 10.4	H = 17 44 19.2 h = 39 km MB = 5.0 (NEIS) D = 136.8 LmH B 20s 0.2/um M = 4.9 LmV B 20 0.3/um 5.1
9.	iP	A 21 50 10.5	<u>Iran - USSR Border Region</u>
	LmH	B 22 08.5	36.77 N 60.00 E
	LmV	B 11.4	H = 21 43 00.3 h = 20.6 km MB = 4.5 D = 36.95 Az = 308 (NEIS) PV A 1.3s 26.2nm M = 4.9 LmH B 16 0.5/um 4.4 LmV B 12 0.3/um 4.4
10.	ePP	A 07 25 14	<u>Java</u> 8.17 S 107.64 E H = 07 07.26.9 h = 51.5 km MB = 5.7 D = 100.08 Az = 320 (NEIS) PPV A 1.9s 60.6nm M = 5.7
10.	eP	A 09 47 02	<u>Mindanao, Philippine Islands</u> 7.08 N 123.57 E H = 09 33 29.2 h = 54 km MB = 5.3 D = 98.15 Az = 323 (NEIS) PV A 1.6s 19.2nm M = 5.4
10.	eP	AB 09 47 23	<u>Kodiak Island Region</u> 56.64 N 152.73 W
	eS	B 56 48	H = 09 35 58.7 h = 33 km MB=5.0 MS=4.6
	LmV	B 24.0	D = 72.30 Az = 10 (NEIS)
	LmH	B 27.6	PV A 1.6s 71.5nm M = 5.4 LmH B 16 0.4/um 4.8 LmV B 20 0.5/um 4.8

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Day	Phase	h m s	Remarks
10.	ePKIKP AB	18 45 48	<u>Fiji Islands Region</u> 20.73 S 178.45 W
	iPKHKP A	45 52	H = 18 27 09.6 h = 585 km MB = 5.4
	ePKP2 A	45 59	D = 149.11 Az = 347 (NEIS)
	epPKP A	48 07	PKIKPV A 1.2s 34.6nm
	esPKP B	49 00	PKHKPV A 1.2 122.0nm
	esPKB B	52 20	PKP2V A 1.1 68.5nm
10.	eP A	22 09 54	<u>Lake Baikal Region</u> 50.92 N 110.76 E H = 21 59 58.8 h = 2.5 km MB = 5.2 D = 57.79 Az = 312 (NEIS) PV A 0.9s 31.2nm M = 5.3
11.	ePKIKP AB	02 02 22	<u>Tonga Islands</u> 17.56 S 174.37 W
	ePKHKP A	02 24	H = 01 42 47.5 h = 56.5 km MB = 6.3
	ePKP2 A	02 28	D = 146.65 Az = 353 (NEIS)
	epPKP AB	02 54	h = 123 km
	eSS B	24 20	PKIKPV A 1.8s 47.3nm
	esSS B	25 16	PKHKPV A 1.8 911.0nm
	ePSPS B	26 00	PKP2V A 1.6 813.2nm
	eSSS B	30 10	LmH B 19 3.8/um
	esSSS B	31 00	LmV B 18 4.5/um
	eSSSS B	34 10	
	esSSSS B	34 55	
	LmH B	03 11.9	
	LmV B	15.3	
	11.	ePKP A	08 12 41.5
e A		12 48	H = 07 53 03 h = 69 km MB = 5.0 D = 146.18 Az = 356 (ISC) PKPV A 1.4s 41.8nm
12.	ePKP A	00 26 50	<u>Solomon Islands</u> 6.53 S 155.01 E
	LmV B	01 28.6	H = 00 07 51.8 h = 58.2 km MB = 5.9
	LmH B	28.7	D = 126.51 Az = 332 (NEIS) PKPV A 1.2s 28.4nm LmH B 18 0.4/um LmV B 19 0.6/um

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Day	Phase	h m s	Remarks
12.	LmH B	08 18.0	<u>Mid - Indian Rise</u> 37.1 S 78.4 E
	LmV B	18.8	H = 07 06 33.7 h = 33 km (ISC) D = 105.3 traces
12.	ePKHKP A	20 25 35	<u>Tonga Islands Region</u> 22.49 S 175.88 W H = 20 05 43.2 h = 33 km MB = 4.9 D = 151.29 Az = 350 (NEIS)
13.	ePKP A	00 59 27	<u>Tonga Islands</u> 16.99 S 173.46 W H = 00 39 46.0 h = 33 km MB = 4.5 (NEIS) D = 146.2
13.	LmH B	11 26.0	<u>Ryukyu Islands Region</u> 26.84 N 130.53 E
	LmV B	33.1	H = 10 36 37.3 h = 33 km MB = 5.1 (NEIS) D = 86.2 LmH B 16.5s 0.3/um M = 4.8 LmV B 16 0.3/um 4.8
13.	eP A	13 05 10	<u>Tibet</u> 30.32 N 94.83 E H = 12 54 43.2 h = 33 km MB = 4.6 D = 63.10 Az = 315 (NEIS)
13.	eSg A	17 30 41	<u>Poland</u> 50.26 N 18.92 E H = 17 28 09.2 M = 2.6 (WAR) D = 4.7
13.	eP A	19 45 05	<u>Hokkaido, Japan Region</u> 43.13 N 145.58 E
	epP A	45 17	H = 19 33 09.7 h = 62.2 km MB = 4.9
	e A	46 03	D = 78.36 Az = 332 (NEIS) h = 52 km
14.	eP A	04 34 00	<u>Windward Islands</u> 10.97 N 62.37 W
	epP AB	34 31	H = 04 22 49.7 h = 112 km MB = 4.9
	eS B	43 08	D = 71.44 Az = 40 (NEIS)
	eFS B	43 45	h = 131 km
	eSS B	47 52	LmH B 17s 0.2/um
	LmH B	05 02.0	LmV B 17 0.25/um
	LmV B	02.0	

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Day	Phase	h m s	Remarks	
14.	eP A	16 04 23	<u>Taiwan</u> 23.57 N 121.50 E	
	LmV B	46.0	H = 15 51 55.5 h = 33 km MB = 4.8	
	LmH B	46.8	D = 83.81 Az = 323 (NEIS) LmH B 20s 0.4/um M = 4.8 LmV B 20 0.3/um 4.7	
14.	eP A	19 15 30.5	<u>South Atlantic Ridge</u> 22.75 S 12.75 W H = 19 03 44.2 h = 33 km MB=4.9 MS=5.7 D = 76.18 Az = 16 (NEIS) PV A 1.4s 18.6nm M = 4.9	
14.	eP AB	19 16 06	<u>South Atlantic Ridge</u> 22.75 S 12.70 W	
	eS B	25 50	H = 19 04 20.3 h = 33 km MB = 5.6 MS=5.1	
	ePS B	26 25	D = 76.1	
	eSS B	30 56	PV A 1.3s 35.0nm M = 5.2	
	LmH B	48.0	LmH B 19 0.8/um 5.0	
	LmV B	49.4	LmV B 19 0.9/um 5.1	
14.	eP AB	21 52 33.5	<u>Java</u> 7.76 S 107.57 E	
	ePP AB	56 25	H = 21 38 51.5 h = 33 km MB=5.7 MS=5.7	
	e B	56 50	D = 99.72 Az = 320 (NEIS)	
	eSKS B	22 03 07	PV A 1.7s 24.2nm M = 5.5	
	ePS B	05 22	LmH B 20 1.4/um 5.5	
	eSS B	11 06	LmV B 20 1.3/um 5.4	
	LmH B	39.4		
	LmV B	44.6		
	14.	eP AB	24 01 04	<u>Eastern Sea of Japan</u> 41.73 N 138.57 E
		epP A	01 14.5	H = 23 49 13.4 h = 33 km MB = 4.9
LmH B		32.7	D = 77.01 Az = 329 (NEIS)	
LmV B		42.1	h = 37 km PV A 1.4s 14.0nm M = 4.8 LmH B 17 1.7/um 5.4 LmV B 13 1.8/um 5.6	
15.	ePKIKP A	06 00 58	<u>Tonga Islands Region</u> 23.33 S 175.38 W	
	ePKHKP A	01 04.5	H = 05 41 12.1 h = 33 km	
	epPKP A	01 11.5	MB = 5.3 MS = 5.1 (NEIS) D = 152.2 PKHKPV A 1.7s 72.7nm	

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Day	Phase	h m s	Remarks
15.	eP A	20 36 58	<u>Off Coast of Central America</u>
	epP A	37 04.5	2.85 N 84.29 W H = 20 23 44.1 h = 23 km MB = 5.2 (NEIS) D = 91.6 h = 23 km PV A 1.6s 27.5nm M = 5.4
15.	iPn A	21 13 28	<u>Southern Italy</u> 38.85 N 16.98 E
	ePP A	13 38	H = 21 10 32.5 h = 54.1 km MB = 5.0 (NEIS)
	eSn A	15 37	D = 12.3
	LmH B	18.0	PV A 1.3s 100.4nm M = 5.8
	LmV B	19.5	LmH B 10 1.2/um LmV B 14 0.5/um
16.	eP A	05 03 56	<u>Iran</u> 36.35 N 58.28 E
	e A	04 11	H = 04 56 52.7 h = 33 km MB = 4.5 (NEIS)
	LmV B	25.2	D = 36.0
	LmH B	25.8	LmH B 12.5s 1.2/um M = 4.9 LmV B 13.5 0.8/um 4.8
16.	+ePKP A	06 34 50	<u>New Hebrides Islands Region</u>
	epPKP A	34 54	19.28 S 167.66 E
	ePP B	37 45	H = 06 15 16.7 h = 11.6 km
	LmV B	07 50.1	MB = 5.5 MS = 4.9 (NEIS)
	LmH B	51.8	D = 143.5 h = 14 km PKPV A 1.8s 74.3nm
			LmH B 20 0.3/um M = 4.9 LmV B 20 0.3/um 5.0
16.	ePKIKP A	07 22 30	<u>New Hebrides Islands Region</u> 18.97 S 167.58 E H = 07 03 01.3 h = 33 km MB = 5.1 (NEIS) D = 143.1
16.	eSn A	08 59 15	<u>Federal Republic of Germany</u>
	eSg A	59 30	51.40 N 7.2 E H = 08 57 53.7 h = 0 km (ISC) D = 2.85

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Day	Phase	h m s	Remarks
16.	eP	A 23 30 44.5	<u>Eastern Gulf of Aden</u> 14.66 N 52.35 E H = 23 22 02.5 h = 33 km MB = 4.8 (NEIS) D = 48.5
17.	ePn	A 00 42 43	<u>Friaul</u> (VIE)
	ePg	A 43 03	D = 4.1
	eSn	A 43 32	
	eSg	A 43 56	
17.	ePKIKP	A 03 27 12	<u>Tonga Islands Region</u> 17.87 S 172.50 W
	ePKHKP	A 27 15	H = 03 07 29.2 h = 14.7 km
	ePKP2	A 27 18	MB = 5.1 MS = 4.9 (NEIS)
	LmH	B 04 41.0	D = 147.2
	LmV	B 41.5	PKIKPV A 1.8s 60.8 nm PKHKPV A 1.8 81.1nm PKP2V A 2.0 76.9nm LmH B 16 0.2/um M = 5.0 LmV B 20 0.4/um 5.2
17.	eP	A 04 34 46.5	<u>Eastern Kazakh SSR</u> 49.81 N 78.15 E
	ePn	A 36 18	H = 04 26 57.7 h = 0 km MB = 5.0 (NEIS) D = 41.2 PV A 1.0s 35.4nm M = 5.1
17.	eP	A 13 20 16	<u>Bonin Islands Region</u> 28.26 N 139.49 E H = 13 08 05.1 h = 424.4 km MB = 4.7 D = 88.95 Az = 330 (NEIS)
17.	eP	A 16 35 50	<u>Iran - USSR Border Region</u> 36.39 N 59.04 E H = 16 28 41.9 h = 10.9 km MB = 4.7 D = 36.57 Az = 308 (NEIS) PV A 1.3s 15.3nm M = 4.7
17.	eP	A 17 00 23	<u>Andreanof Islands, Aleutian Is.</u> 51.87 N 175.34 W
	epP	A 00 39	H = 16 48 31.3 h = 56.7 km MB = 5.4
	ePP	A 03 26	D = 77.69 Az = 355 (NEIS) h = 64 km PV A 1.0s 25.6nm M = 5.2

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Day	Phase	h m s	Remarks
18.	LmH	B 06 47.2	<u>Aegean Sea</u> 39.67 N 25.53 E H = 06 38 36.3 h = 4 km MB = 4.7 (NEIS) D = 14.6 LmH B 15s 0.4/um M = 3.6
18.	eP	A 07 46 28	<u>Tibet</u> 30.33 N 94.77 E H = 07 36 01.7 h = 33 km MB = 4.8 D = 63.06 Az = 315 (NEIS)
18.	eP1	AB 09 31 44	<u>Crete</u> 35.23 N 23.40 E
	eiP2	A 31 49	H = 09 27 40.0 h = 41.5 km
	ePP	B 32 00	MB = 5.2 MS = 5.3 (NEIS)
	eS	B 35 00	D = 17.7
	eSS	B 35 30	P1V A 1.4s 130.2nm M = 4.9
	eScP	A 39 52	P2V A 1.3 240.2nm 5.2
	LmH	B 39.2	PV B 7 2.3/um 5.4
	LmV	B 40.1	ScPV A 1.3 19.7nm LmH B 12 11.5/um 5.4 LmV B 14 8.8/um 5.3
18.	eP	A 10 08 53.5	<u>Crete</u> 35.07 N 23.31 E H = 10 04 43.4 h = 33 km MB = 4.1 D = 17.74 Az = 335 (NEIS) PV A 1.5s 15.1nm M = 3.9
18.	+iP	AB 12 11 36	<u>Kurile Islands</u> 46.63 N 153.71 E
	epP	AB 11 45	H = 11 59 41.2 h = 33 km
	ePP	B 14 36	MB = 5.7 MS = 5.0 (NEIS)
	eS	B 21 22	D = 77.7 h = 35 km
	ePS	B 22 00	PV A 1.3s 248.9nm M = 6.1
	eP'P'	A 38 58.5	PV B 8 1.5/um 5.3
	LmH	B 48.0	SH B 10 0.5/um 5.6
	LmV	B 52.5	P'P'V A 1.2 16.3nm LmH B 16 3.4/um 5.8 LmV B 14 1.9/um 5.6
18.	eP	A 13 08 46.5	<u>Aleutian Islands Region</u> 50.91 N 174.67 E
	epP	A 08 56.5	H = 12 56 51.9 h = 33 km MB = 5.3 (NEIS) D = 78.0 h = 37 km PV A 1.2s 32.5nm M = 5.2

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Day	Phase	h m s	Remarks
18.	LmH B	15 07.5	LmH B 18s 0.5 μ m
	LmV B	09.5	LmV B 12 0.4 μ m
19.	ePn A	04 19 09	<u>Central Italy</u> 42.73 N 12.40 E
	ePg A	19 52	H = 04 17 13.6 h = 33 km
	eSn A	20 40	D = 7.94 Az = 356 (NEIS)
	eSg A	21 38	LmH B 12s 0.25 μ m M = 3.0
	LmH B	22.2	
	LmV B	24.2	
19.	ePKP A	05 27 14	<u>South of Sumbawa Islands</u> 11.15 S 118.39 E
	e A	27 38	H = 05 08 41.6 h = 33 km
	e A	27 50	MB = 6.1 MS = 5.4 (NEIS)
	ePP A	31 50	D = 109.3
	eSKS B	38 00	LmH B 20s 1.1 μ m M = 5.4
	LmH B	05 15.0	LmV B 16 0.4 μ m 5.1
	LmV B	18.7	
19.	eP AB	06 23 20	<u>South of Sumbawa Islands</u> 11.09 S 118.46 E
	epP AB	23 32	H = 06 08 55.2 h = 33 km MB=7.0 MS=7.9
	Pn B	24 00	D = 109.17 Az = 320 (NEIS)
	e B	26 32	h = 43 km
	e B	27 08	PnV B 20s 31.5 μ m M = 8.2
	ePP B	27 35	PPV B 16 22.9 μ m 7.6
	ePPP B	30 05	LmH B 25 1365.0 μ m 8.4
	eSKS B	33 50	LmV B 19 600.0 μ m 8.2
	eSKKS B	34 40	
	eSKKKS B	35 00	
	ePKKP A	38 52	
	eSS B	42 35	
	LmH B	07 13.6	
	LmV B	25.6	
19.	eP A	07 56 35	<u>South of Sumbawa Islands</u> 10.19 S 117.41 E
	epP A	56 52	H = 07 38 05.4 h = 33 km MB = 5.5
			D = 107.83 Az = 320 (NEIS)
			h = 65 km

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Day	Phase	h m s	Remarks
19.	ePP AB	13 42 33.5	<u>Sumba Island Region</u> 10.80 S 119.17 E
	eSKS B	48 40	H = 13 23 37.0 h = 33 km
	esSKS B	49 00	MB = 5.8 MS = 5.7 (NEIS)
	eSP B	52 00	D = 109.5
	esSP B	52 30	PPV A 1.8s 54.1nm M = 6.0
	LmH B	14 33.5	LmH B 22 2.1 μ m 5.7
	LmV B	39.3	LmV B 22 1.8 μ m 5.6
19.	+eP A	18 07 18	<u>Southern Nevada</u> 37.11 N 116.06 W
	ePP A	10 22	H = 17 55 00.1 h = 0 km MB = 5.6
			D = 81.24 Az = 31 (NEIS)
			Nuclear explosion SCANTLING
			at the Nevada Test Site (ERDA)
			PV A 1.5s 60.3nm M = 5.4
19.	ePP A	19 57 53	<u>Sumba Island Region</u> 10.80 S 119.14 E
	LmH B	20 45.0	H = 19 38 59.7 h = 33 km MB=5.8 MS=5.4
	LmV B	54.4	D = 109.39 Az = 320 (NEIS)
			PPV A 1.6s 41.2nm
			LmH B 23 1.5 μ m M = 5.5
			LmV B 16 0.8 μ m 5.4
19.	ePP A	21 54 00	<u>Sumba Island Region</u> 10.89 S 119.23 E
	LmH B	22 40.8	H = 21 35 03.3 h = 33 km MB=5.8 MS=5.1
	LmV B	47.0	D = 109.51 Az = 320 (NEIS)
			LmH B 20s 0.7 μ m M = 5.2
			LmV B 20 0.7 μ m 5.2
20.	+iP AB	02 58 37.7	<u>Caribbean Sea</u> 16.61 N 86.85 W
	epP AB	58 42.5	H = 02 46 11.8 h = 14 km MB=5.3 MS=5.7
	eS B	03 08 52	D = 82.58 Az = 39 (NEIS)
	ePS B	09 34	h = 18 km
	eSS B	14 20	PV A 1.9s 98.5nm M = 5.6
	eSSS B	17 30	LmH B 18 3.9 μ m 5.8
	LmV B	37.3	LmV B 17 3.3 μ m 5.8
	LmH B	37.4	

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Day	Phase	h m s	Remarks
20.	eP AB	04 04 14.5	<u>Caribbean Sea</u> 16.70 N 86.61 W
	epP AB	04 24.5	H = 03 51 54.7 h = 36 km MB=5.6 MS=5.9
	ePP B	07 25	D = 82.36 Az = 39 (NEIS)
	eS B	14 28	h = 36 km
	esS B	14 48	PV A 1.5s 37.7nm M = 5.2
	eSS B	19 48	pPV A 1.8 250.0nm
	LmH B	49.0	LmH B 18 3.9/um 5.8
	LmV B	51.7	LmV B 17 4.2/um 5.8
	20.	eP diff B	09 36 45
ePKIKP A		40 42	H = 09 21 50.3 h = 33 km MB=5.7 MS=5.8
ePP B		41 20	D = 109.61 Az = 320 (NEIS)
eSP B		50 20	LmH B 21s 3.8/um M = 5.9
LmH B		10 27.9	LmV B 16 2.6/um 5.9
LmV B		34.6	
20.	LmV B	11 46.5	LmH B 20s 0.3/um
	LmH B	46.7	LmV B 16 0.9/um
20.	ePKIKP A	12 41 07	<u>Santa Cruz Islands</u> 12.42 S 167.12 E H = 12 22 11.1 h = 242 km MB = 5.1 D = 136.95 Az = 337 (NEIS) PKIKPV A 1.3s 17.5nm
20.	eP diff B	19 31 35	<u>South of Sumba Island</u> 11.04 S 119.14 E
	ePKIKP A	35 30	H = 19 16 32.7 h = 33 km
	ePP B	35 55	MB = 6.0 MS = 6.1 (NEIS)
	e B	36 10	D = 109.6
	e B	37 58	PdiffV B 16s 0.5/um
	e B	41 35	PKIKPV A 2.0 76.9nm M = 6.6
	eSP B	44 58	PPV B 15 1.7/um 6.5
	eSS B	50 40	LmH B 22 11.5/um 6.4
	LmH B	20 22.4	LmV B 20 8.2/um 6.3
	LmV B	26.8	
	20.	eP A	22 08 19.5

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Day	Phase	h m s	Remarks
21.	eP A	03 07 49	<u>Tibet</u> 30.34 N 94.81 E
	e A	07 53	H = 02 57 22.5 h = 33 km MB=4.9 (NEIS) D = 63.1
21.	eP A	05 31 59.5	<u>Near East Coast of Honshu, Japan</u>
	ePP A	35 09	35.24 N 141.12 E
	LmH B	06 11.2	H = 05 19 34.2 h = 41.8 km
	LmV B	15.1	MB = 5.5 MS = 5.2 (NEIS) D = 83.6
			PV A 1.4s 46.5nm M = 5.5
			PPV A 1.4 41.9nm 5.7
		LmH B 15 1.7/um 5.6	
		LmV B 15 1.8/um 5.6	
21.	eSg A	11 09 18	<u>Austria</u> 46.23 N 13.02 E H = 11 06 53.8 h = 0 km (ISC) D = 4.55
21.	eP A	11 46 27	<u>Near Coast of Guatemala</u> 13.79 N 90.06 W H = 11 33 50.8 h = 83.6 km MB = 4.8 (NEIS) D = 86.8 PV A 1.4s 9.3nm M = 4.9
21.	ePKHKP AB	13 56 48	<u>South Pacific Cordillera</u>
	ePKP2 B	57 10	55.02 S 136.01 W
	ePP B	14 00 48	H = 13 36 32.6 h = 33 km MB = 4.8
	eSS B	21 00	D = 160.6 Az = 89 (NEIS)
	LmH B	15 13.0	LmH B 18s 5.5/um M = 5.3
	LmV B	18.7	LmV B 18 0.8/um 5.6
21.	-iPKP2 A	19 55 31	<u>Kermadec Islands</u> 29.97 S 177.91 W
	epP A	55 45	H = 19 35 05.6 h = 59 km MB = 5.7 (NEIS)
	ePP B	59 40	D = 158 h = 50 km
	LmH B	21 35.7	PKP2V A 1.3s 39.3nm
	LmV B	44.2	LmH B 22 0.7/um LmV B 16 0.4/um

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Day	Phase	h m s	Remarks	
22.	eP ePP	A A	18 06 49.5 08 32	<u>Afghanistan - USSR Border Region</u> 36.69 N 71.41 E H = 17 58 47.3 h = 100 km MB = 4.9 D = 44.26 Az = 308 (NEIS)
23.	ePKHKP ePKP2 LmH	AZ A B	08 27 08.5 27 21.5 09 42.5	<u>South of Fiji Islands</u> 25.60 S 176.20 W H = 08 07 12.9 h = 49.4 km MB=5.4 MS=4.9 D = 154.28 Az = 348 (NEIS) LmH B 20s 0.2/um M = 4.9
23.	ePP	A	10 43 26	<u>South of Sumbawa Island</u> 11.39 S 117.66 E H = 10 24 12.1 h = 33 km MB=5.7 MS=4.9 D = 108.9 (NEIS)
23.	LmH	B	13 24.3	<u>Off East Coast of Honshu, Japan</u> 40.23 N 143.34 E H = 12 36 55.2 h = 17 km MB = 5.0 (NEIS) D = 80.0 LmH B 16s 0.5/um M = 5.0
24.	eP eS LmH LmV	AB B B B	03 57 24 08 00 03 34.0 41.6	<u>Ryukyu Islands</u> 27.02 N 130.02 E H = 03 44 47.8 h = 33 km MB = 5.2 D = 85.51 Az = 326 (NEIS) LmH B 17.5s 2.1/um M = 5.6 LmV B 14 0.5/um 5.1
24.	iP LmH LmV	A B B	10 23 55 49.8 51.3	<u>Lake Baikal Region</u> 54.15 N 110.34 E H = 10 14 20.8 h = 31.7 km MB=4.8 MS=4.0 D = 55.48 Az = 310 (NEIS) PV A 1.4s 37.2nm M = 5.3 LmH B 18 0.4/um 4.5 LmV B 10 0.3/um 4.7
24.	ePn ePg eSn eSg	A A A A	12 01 20 01 39 02 09 02 30	<u>Austria</u> 46.28 N 13.20 E H = 12 00 10.2 h = 10 km D = 4.50 Az = 347 (NEIS)

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Day	Phase	h m s	Remarks	
24.	ePKHKP	A	13 51 32	<u>Tonga Islands</u> 17.95 S 175.10 W H = 13 32 08.9 h = 170.1 km MB=4.8 (NEIS) D = 147.0 PKHKPV A 1.3s 15.3nm
25.	ePKP	A	01 41 51	<u>New Hebrides Islands</u> 19.04 S 169.38 E H = 01 22 48.2 h = 254.1 km MB = 4.8 D = 143.85 Az = 336 (NEIS) PKPV A 1.2s 8.1nm
25.	eP	A	03 08 12	<u>Eastern Mediterranean Sea</u> 35.00 N 28.28 E H = 03 03 09.3 h = 10 km MB = 4.2 D = 19.77 Az = 327 (NEIS)
25.	ePKIKP	A	07 55 07	<u>Fiji Islands Region</u> 14.95 S 177.34 W H = 07 35 33.7 h = 33 km MB=5.1 MS=5.2 D = 143.67 Az = 350 (NEIS) traces
25.	ePKP	A	16 40 12	<u>Fiji Region</u> 18.01 S 178.26 W H = 16 21 33.0 h = 580 km MB = 4.3 D = 146.50 Az = 349 (ISC)
25.	ePn eSn eSg	A A A	18 05 43 07 12 08 12	<u>Central Italy</u> 42.67 N 12.69 E H = 18 03 44.7 h = 10 km D = 8.01 Az = 355 (NEIS)
25.	eP diff ePKIKP ePP ePPP ePS ePKKP eSS LmH LmV	A A A B B A B B B	18 19 36.5 23 42 24 04 26 25 33 58 34 57 39 48 19 10.9 20.6	<u>Sumba Island Region</u> 10.74 S 119.27 E H = 18 05 10.8 h = 33 km MB=6.1 MS=6.0 D = 109.42 Az = 320 (NEIS) PKIKPV A 1.6s 33.0nm M = 6.3 LmH B 18.5 3.7/um 6.0 LmV B 16 4.1/um 6.1

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Day	Phase	h m s	Remarks
25.	ePn A	19 35 24	<u>Central Italy</u> 42.69 N 12.73 E
	eSn A	36 54	H = 19 33 28.3 h = 10 km
	eSg A	37 50	D = 8.00 Az = 355 (NEIS) PV A 0.9s 25.3nm M = 5.4
25.	ePn A	20 45 05	<u>Central Italy</u> 42.68 N 12.63 E
	eSn A	46 30	H = 20 43 07.6 h = 10 km
	eSg A	47 29	D = 8.00 Az = 355 (NEIS)
25.	eP A	23 00 43.5	<u>Tibet</u> 30.30 N 94.86 E H = 22 50 16.7 h = 33 km MB = 4.9 D = 63.13 Az = 315 (NEIS)
26.	eP A	04 59 11	<u>Afghanistan - USSR Border Region</u> 36.61 N 71.33 E H = 04 51 18.2 h = 185.6 km MB = 4.7 D = 44.25 Az = 308 (NEIS) h = 200 km
	epP A	59 52	
26.	epP A	07 27 51	<u>Rat Islands, Aleutian Is.</u> 51.49 N 175.73 E H = 07 15 48.2 h = 34 km MB = 4.9 MS = 4.1 (NEIS) D = 77.5 h = 33 km
26.	ePP AB	08 45 36	<u>Sumba Island Region</u> 10.67 S 119.30 E H = 08 26 37.5 h = 33 km MB=5.6 MS=5.7 D = 109.39 Az = 320 (NEIS) PPV A 1.6s 44.0nm M = 5.9 LmH B 19 2.4/um 5.8 LmV B 15 1.1/um 5.6
	ePPP B	48 00	
	eSKS B	51 36	
	eSKKS B	52 32	
	eSP B	55 25	
	eSPP B	56 06	
	eSS B	09 01 00	
	LmH B	32.4	
	LmV B	39.0	
26.	ePKP A	14 25 37	<u>New Hebrides Islands</u> 20.46 S 169.79 E H = 14 06 17.8 h = 163.9 km MB = 5.0 D = 145.30 Az = 335 (NEIS) h = 158 km PKPV A 1.6s 38.5nm
	epPKP A	26 16	

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Day	Phase	h m s	Remarks
26.	eP diff B	20 04 45	<u>Southwestern Atlantic Ocean</u> 59.43 S 20.51 W H = 19 50 01.4 h = 33 km MB = 6.3 MS = 7.1 (NEIS) D = 112.6 LmH B 18s 30.9/um M = 6.9 LmV B 17.5 34.1/um 6.8
	ePKIKP AB	08 33	
	ePP B	09 16	
	e B	11 00	
	eS diff B	17 20	
	ePS B	19 00	
	ePKKP A	19 30	
	ePPS B	20 10	
	iSS B	25 00	
	LmV B	53.7	
LmH B	54.2		
26.	eP A	23 08 29.5	<u>Northern Sulawesi</u> 0.15 N 123.07 E H = 22 54 44.1 h = 140.4 km MB = 5.6 D = 103.34 Az = 322 (NEIS)
	ePP A	12 50	
27.	eP diff A	07 27 01	<u>Timor</u> 8.06 S 125.30 E H = 07 12 22.5 h = 25 km MB=6.4 MS=6.8 (NEIS) D = 111.2 PPV B 8s 8.0/um M = 7.5 PKKPV A 1.5 30.2nm LmH B 20 21.7/um 6.7 LmV B 18 18.3/um 6.7
	e A	30 24	
	ePKIKP A	30 52	
	ePP AB	31 35	
	eS diff E	39 15	
	eSP B	41 05	
	ePKKP A	41 58	
	ePS B	42 04	
	ePPS B	42 08	
	eSS B	47 45	
eSSS B	51 50		
LmH B	08 26.7		
LmV B	30.9		
27.	ePP A	11 01 48	<u>Timor</u> 8.29 S 125.10 E H = 10 42 32.2 h = 33 km MB=5.5 MS=5.2 D = 111.2 LmH B 20s 0.6/um M = 5.2 LmV B 20 0.4/um 5.0
	LmH B	12 03.0	
	LmV B	03.8	
27.	LmH B	15 16.5	<u>West Irian</u> 4.32 S 139.49 E H = 14 03 43.0 h = 46 km MB = 5.4 (NEIS) D = 116.6

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Day	Phase	h m s	Remarks
cont. 27.	LmV B	15 16.5	LmH B 20s 0.4/um M = 5.0 LmV B 20 0.5/um 5.2
28.	eP AB	09 48 17	<u>Western Mediterranean Sea</u>
	ePP AB	48 27	38.21 N 8.21 E
	eS B	50 36	H = 09 45 14.5 h = 10 km MB=5.1 MS=5.0
	LmH B	54.1	D = 12.67 Az = 10 (NEIS)
	LmV B	54.1	PV A 1.3s 41.5nm M = 5.2 PPV B 9 0.7/um LmH B 12.5 19.2/um 5.3 LmV B 12 13.5/um
28.	ePKIKP AB	14 31 22.5	<u>Kermadec Islands</u> 29.06 S 177.15 W
	ePKHKP AB	31 35	H = 14 11 30.3 h = 44 km MB=5.5 MS=5.5
	ePKP2 B	31 52	D = 157.45 Az = 345 (NEIS)
	ePP B	35 35	LmH B 18s 0.9/um M = 5.5
	eSKSP B	45 48	LmV B 18 0.4/um 5.3
	ePFS B	49 00	
	eSS B	55 10	
	LmH B	15 49.0	
	LmV B	54.9	
28.	ePP A	20 30 08	<u>Admiralty Islands Region</u> 1.08 S 146.23 E
	LmH B	21 11.5	H = 20 10 05.0 h = 33 km
	LmV B	19.7	MB = 5.2 MS = 5.5 (NEIS) D = 117.6 LmH B 20s 2.2/um M = 5.8 LmV B 20 0.4/um 5.0
28.	eP A	23 58 02	<u>Southern Iran</u> 27.98 N 54.92 E
			H = 23 50 32.3 h = 45.2 km MB = 4.7 D = 39.68 Az = 317 (NEIS)
29.	+iP A	14 36 30	<u>Philippine Islands Region</u>
	ePP AB	39 58	17.44 N 119.87 E
	eSKS B	46 52	H = 14 23 40.5 h = 12.5 km MB=6.0 MS=6.2
	ePS B	48 05	D = 87.74 Az = 323 (NEIS)
	eSS B	53 10	PV A 2.2s 425.3nm M = 6.4

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Day	Phase	h m s	Remarks
cont. 29.	LmV B	15 21.5	LmH B 16s 17.1/um M = 6.6
	LmH B	22.9	LmV B 16 21.9/um 6.7
29.	+iP AB	21 11 57	<u>Andreanof Islands, Aleutian Is.</u>
	epP A	12 10	51.56 N 173.97 W
	LmV B	54.6	H = 20 59 59.2 h = 24.5 km MB=5.4 MS=5.1
	LmH B	55.0	D = 78.06 Az = 356 (NEIS) h = 50 km PV A 1.2s 101.6nm M = 5.7 pPV A 1.4 83.7nm LmH B 17 1.4/um 5.4 LmV B 18 0.8/um 5.1
29.	eP A	22 15 34	<u>Andreanof Islands, Aleutian Is.</u>
	epP A	15 44	51.67 N 174.02 W
			H = 22 03 37.8 h = 37.5 km MB = 4.6 D = 77.95 Az = 356 (NEIS) h = 37 km
29.	eP A	22 20 51	<u>Andreanof Islands, Aleutian Is.</u>
	epP A	21 03	51.67 N 173.94 W
			H = 22 08 53.6 h = 29.5 km MB = 4.8 D = 77.96 Az = 356 (NEIS) h = 48 km
30.	eP A	07 01 12	<u>Central Alaska</u> 63.16 N 151.11 W
	epP A	01 43	H = 06 50 39.9 h = 130 km MB = 5.0 D = 65.72 Az = 12 (NEIS) h = 132 km PV A 1.0s 13.8nm M = 5.0 pPV A 1.2 20.3nm
30.	iPg A	10 56 31.5	<u>German Democratic Republic</u>
	iSg A	56 46.8	51°22.3' N 12°53.5' E Explosion yield 7 t (CLL) D = 1.03

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Day	Phase	h m s	Remarks
30.	eP A	14 48 45	<u>Southern Greece</u> 36.64 N 21.60 E
	LmH B	54.6	H = 14 45 03.6 h = 36 km MB = 4.6 (NEIS)
	LmV B	55.9	D = 15.8 PV A 1.0s 19.7nm M = 4.4 LmH B 15 1.8/um 4.4 LmV B 15 0.9/um 4.3
30.	+iP A	15 24 25	<u>Andreanof Islands, Aleutian Is.</u>
	LmH B	16 07.8	51.38 N 173.79 W
	LmV B	10.3	H = 15 12 27.6 h = 33.2 km MB=5.4 MS=5.0 D = 78.25 Az = 356 (NEIS) PV A 1.3s 109.2nm M = 5.7 LmH B 17.5 1.6/um 5.4 LmV B 16 0.6/um 5.1
30.	ePKP2 A	20 01 49	<u>Tonga Region</u> 23.24 S 174.69 W H = 19 41 44.2 h = 33 km MB = 5.0 D = 152.21 Az = 351 (ISC)
30.	eP A	20 56 27	<u>Kodiak Island Region</u> 56.63 N 152.53 W H = 20 45 01.7 h = 20 km MB = 4.9 (NEIS) D = 72.4
31.	iP A	00 54 29	<u>Northern Colombia</u> 7.34 N 76.30 W
	ePP B	57 30	H = 00 42 05.4 h = 33 km MB=5.7 MS=6.4
	eSKS B	01 04 40	D = 83.06 Az = 40 (NEIS)
	ePS B	05 25	PV A 1.1s 48.4nm M = 5.5
	eSS B	10 05	LmH B 19 9.8/um 6.2
	LmV B	30.0	LmV B 20 16.3/um 6.4
	LmH B	32.0	
31.	ePKP2 A	05 50 18	<u>Kermadec Islands Region</u>
	LmV B	07 01.5	29.39 S 176.88 W H = 05 29 59.4 h = 117.3 km. MB = 4.6 (NEIS) D = 157.8 LmV B 20s 0.35/um
31.	eP A	08 25 39.5	<u>Southern Greece</u> 37.74 N 21.24 E
	LmH B	32.2	H = 08 22 15.3 h = 72.9 km MB = 4.7

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Day	Phase	h m s	Remarks
cont. 31.	LmV B	08 32.2	D = 14.61 Az = 335 (NEIS) LmH B 14s 1.3/um LmV B 16 1.6/um
31.	eP A	09 10 23	<u>Andreanof Islands, Aleutian Is.</u>
	epP A	10 36	51.50 N 173.85 W H = 08 58 27.1 h = 43 km MB = 4.8 D = 78.13 Az = 356 (NEIS) h = 48 km PV A 1.4s 23.3nm M = 5.0
31.	e A	17 47(09)	<u>Poland</u> 50.32 N 19.34 E H = 17 44 50.8 h = 33 km (NEIS) D = 4.9 no time marks
31.	e(PKP2) A	23 24 01	<u>Kermadec Islands Region</u> 29.07 S 176.80 W
	LmV B	24(57.0)	H = 23 03 39.5 h = 68.6 km MB=5.1 (NEIS)
	LmH B	(59.0)	D = 157.8 LmH B 16s 0.4/um LmV B 16 0.3/um LmH, LmV no time marks

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Day	Phase	h m s	Remarks
1.	eSg A	01 30 23	<u>Yugoslavia</u> 46.31 N 14.4 E H = 01 27 50.3 h = 0 km (ISC) D = 4.75
1.	+iP AB LmH B LmV B	03 06 02.0 17.6 21.4	<u>Novaya Zemlya</u> 73.38 N 54.58 E H = 02 59 57.5 h = 0 km MB = 5.7 D = 29.24 Az = 243 (NEIS) PV A 1.0s 70.9nm M = 5.5 LmH B 14 1.0/um 4.6 LmV B 7 0.5/um 4.7
1.	epP A LmV B	17 49 37.5 18 25.0	<u>Northern Colombia</u> 7.44 N 76.26 W H = 17 37 06.8 h = 28.3 km MB=5.3 MS=4.9 D = 82.95 Az = 40 (NEIS) pPV A 1.4s 13.9nm LmV B 21 0.35/um M = 4.7
1.	ePKP2 A epPKP2 A	21 06 43 06 53	<u>South of Kermadec Islands</u> 32.53 S 179.62 W H = 20 46 06.8 h = 38 km MB = 5.1 MS = 4.9 (NEIS) D = 160.0 h = 36 km
2.	ePKIKP A ePKHKP A ePKP2 A	00 20 52 20 58 21 10	<u>South of Fiji Islands</u> 22.90 S 179.10 E H = 00 02 11.1 h = 589.6 km MB = 4.9 D = 150.64 Az = 344 (NEIS) PKHKPV A 1.2s 34.6nm
2.	-eiP AB ePP A epPP A	05 54 07 57 22 57 48	<u>Ryukyu Islands</u> 26.41 N 126.41 E H = 05 41 45.6 h = 97 km MB = 5.6 D = 84.16 Az = 324 (NEIS) h = 108 km PV B 8s 0.7/um M = 6.2
2.	LmH B	10 02.8	<u>Ryukyu Islands</u> 27.01 N 130.17 E H = 09 13 38 h = 3 km MB = 4.9 (ISC) D = 85.6 LmH B 18s 1.7/um M = 5.5

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Day	Phase	h m s	Remarks
2.	ePKP A e A e B ePP AB ePPP B eSKKS B ePS B eSS B LmH B LmV B	10 54 45 55 13 55 16 55 20 57 44 11 02 20 04 44 10 45 42.4 48.8	<u>South of Sumba Island</u> 11.04 S 119.15 E H = 10 36 28.3 h = 33 km MB=6.0 MS=5.9 D = 109.57 Az = 320 (NEIS) LmH B 20s 4.1/um M = 6.0 LmV B 17 3.0/um 5.9
2.	eP A	17 28 06	<u>Near East Coast of Kamchatka</u> 52.49 N 158.89 E H = 17 16 35.1 h = 33 km MB = 4.9 (NEIS) D = 73.58 Az = 339
2.	ePn A ePb A ePg A e A eSn A eiSg A	22 47 59 48 07 48 10 48 16 48 32 48 49	<u>Federal Republic of Germany</u> 48.00 N 9.28 E H = 22 47 14.5 h = 33 km D = 3.05 Az = 29 (NEIS)
3.	ePKP A epPKP A LmV B	12 15 53 16 07 13 22.0	<u>Tonga Islands</u> 15.29 S 173.24 W H = 11 56 18.4 h = 17.9 km MB=5.4 MS=5.1 D = 144.52 Az = 355 (NEIS) h = 50 km LmV traces
3.	e(P) A	15 45 06	<u>Dominican Republic Region</u> 18.35 N 71.15 W H = 15 33 43.4 h = 50.5 km MB = 4.5 D = 71.49 Az = 42 (NEIS) traces
3.	epP A LmH B LmV B	22 46 02 23 29.5 29.5	<u>Near Coast of Nicaragua</u> 12.54 N 87.53 W H = 22 33 07 h = 78.7 km MB = 5.3 D = 86.13 Az = 39 (NEIS) LmH B 17s 0.4/um LmV B 16 0.5/um

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Day	Phase	h m s	Remarks
4.	eP	A 08 22 21	<u>Tunisia</u> 34.13 N 8.94 E
	e	A 22 24	H = 08 18 26.1 h = 33 km MB = 4.5
	e	A 22 32	D = 16.62 Az = 6 (NEIS)
4.	ePKHKP	A 09 07 56	<u>New Hebrides Islands</u> 13.68 S 166.71 E
	ePKIKP	AB 08 01	H = 08 48 39.2 h = 33 km MB=6.0 MS=6.5
	ePP	B 10 44	D = 137.94 Az = 336 (NEIS)
	ePKS	B 11 35	PKIKPV A 1.8s 121.6nm
	ePKKP	A 20 21	PPV B 7.5 4.2/um M = 6.8
	eSKSP	B 20 48	LmH B 20 9.0/um 6.5
	ePPS	B 23 00	LmV B 18.5 4.9/um 6.3
	eSS	B 28 55	
	LmH	B 10 10.2	
	LmV	B 16.5	
4.	iP	AB 15 52 53	<u>Rat Islands, Aleutian Is.</u>
	Pm	A 52 57	51.21 N 178.39 E
	ePP	B 55 45	H = 15 40 57.3 h = 33.6 km MB=5.6 MS=6.4
	ePPP	B 57 35	D = 77.90 Az = 351 (NEIS)
	eS	B 16 02 40	PmV A 1.6s 142.8nm M = 5.8
	ePS	B 03 25	PV B 11.2 6.7/um 6.9
	LmH	C 35.8	PPV B 10 2.2/um 6.2
	LmV	C 38.1	LmH C 17 23.2/um 6.6
			LmV C 16 18.6/um 6.5
4.	eP	A 16 05 37	<u>Rat Islands, Aleutian Is.</u>
			51.02 N 178.56 E
			H = 15 53 40.8 h = 33 km MB = 5.0
			D = 78.10 Az = 352 (NEIS)
4.	-eP	A 16 52 24	<u>South of Honshu, Japan</u> 33.31 N 140.66 E
	epP	A 52 34	H = 16 39 48.5 h = 16.9 km MB = 5.6
			D = 185.09 Az = 330 (NEIS)
			h = 38 km
			PV A 1.5s 65.3nm M = 5.6
4.	eP	A 16 56 21	<u>Rat Islands, Aleutian Is.</u>
			50.85 N 178.43 E
			H = 16 44 25.2 h = 33 km MB = 5.3 (NEIS)

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Day	Phase	h m s	Remarks
cont. 4.			D = 78.3
			PV A 2.5s 92.2nm M = 5.4
4.	+eP	ABC 17 22 27	<u>Rat Islands, Aleutian Is.</u>
	e	A 22 46	51.10 N 178.27 E
	eS	C 32 17	H = 17 10 30.6 h = 31 km MB=5.5 MS=6.4
	ePS	C 33 00	D = 78.00 Az = 351 (NEIS)
			PV A 2.0s 128.2nm M = 5.6
			surface waves superposed by the following earthquakes
4.	eP	A 17 28 11	<u>Rat Islands, Aleutian Is.</u>
			51.26 N 178.40 E
			H = 17 16 15.5 h = 33 km MB = 5.5
			D = 77.85 Az = 351 (NEIS)
4.	eP	ABC 17 36 42	<u>Rat Islands, Aleutian Is.</u>
	Pm	A 36 47	51.14 N 177.95 E
	ePPP	C 41 32	H = 17 24 42.8 h = 7.7 km MB=5.8 MS=6.6
	eS	C 46 44	D = 77.92 Az = 351 (NEIS)
	ePS	C 47 15	PmV A 2.1s 651.7nm M = 6.4
	eSS	C 51 48	LmH C 17.5 55.2/um 6.9
	LmH	C 18 17.4	LmV C 17 43.8/um 6.9
	LmV	C 18.3	
4.	eP	A 17 50 19	<u>Rat Islands, Aleutian Is.</u>
			51.22 N 177.78 E
			H = 17 38 24.8 h = 45.5 km MB = 5.3
			D = 77.83 Az = 351 (NEIS)
			PV A 1.4s 37.2nm M = 5.2
4.	eP	A 18 12 08	<u>Rat Islands, Aleutian Is.</u>
	epP	A 12 19	51.12 N 178.25 E
			H = 18 00 11.9 h = 49.5 km MB = 4.9
			D = 77.97 Az = 351 (NEIS)
			h = 41 km
4.	eP	A 18 37 44.5	<u>Rat Islands, Aleutian Is.</u>
			51.20 N 177.79 E

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Day	Phase	h m s	Remarks
cont. 4.	eP	A 18 37 56	H = 18 25 49.8 h = 40.7 km MB = 5.3 D = 77.85 Az = 351 (NEIS) h = 44 km PV A 1.2s 40.7nm M = 5.3
4.	eP	A 18 50 19.5	<u>Rat Islands, Aleutian Is.</u> 51.16 N 178.25 E H = 18 38 23.6 h = 35 km MB = 5.0 D = 77.94 Az = 351 (NEIS) PV A 1.4s 18.6nm M = 4.9
4.	eP	A 19 34 57	<u>Rat Islands, Aleutian Is.</u> 51.16 N 177.65 E H = 19 23 00.5 h = 35 km MB = 5.0 MS = 4.7 (NEIS) D = 78.0 PV A 0.8s 15.4nm M = 5.1
4.	eP LmH	A 23 32 40 B 24 10.3	<u>Rat Islands, Aleutian Is.</u> 51.18 N 178.25 E H = 23 20 44.9 h = 41 km MB=5.5 MS=5.3 D = 77.92 Az = 351 (NEIS) PV A 2.3s 182.8nm M = 5.7 LmH. B 18 1.6/um 5.4
5.	+1P ePn	A 03 10 49 A 12 19	<u>Eastern Kazakh SSR</u> 50.09 N 78.96 E H = 03 02 57.8 h = 0 km MB = 5.9 D = 41.60 Az = 298 (NEIS) Underground explosion (UPP) PV A 1.2s 170.7nm M = 5.7
5.	ePP epPP	A 11 35 57 A 36 11	<u>South of Sumbawa Islands</u> 11.13 S 118.26 E H = 11 16 59.7 h = 33 km MB=5.7 MS=4.9 D = 109.07 Az = 320 (NEIS)
5.	eP	A 15 26 08.5	<u>Southern Sumatra</u> 3.92 S 103.71 E H = 15 13 05.6 h = 161.6 km MB=5.2 (NEIS) D = 94.3

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Day	Phase	h m s	Remarks
6.	ePP epPP LmH	A 04 55 02 A 55 17 B 05 53.0	<u>Solomon Islands</u> 10.35 S 161.05 E H = 04 33 27.9 h = 61 km MB = 5.5 (NEIS) D = 132.7 LmH B 24s 1.1/um
6.	ePKIKP ePP	A 09 11 20 A 12 45	<u>Papua New Guinea</u> 6.07 S 143.09 E H = 08 52 29.9 h = 33 km MB = 5.4 MS = 5.6 (NEIS) D = 120.02
6.	ePKHKP ePKP2	A 17 56 04 A 56 13	<u>South of Fiji Islands</u> 22.23 S 179.66 W H = 17 37 18.2 h = 583.0 km MB = 4.8 D = 150.29 Az = 345 (NEIS) PKHKPV A 1.0s 23.6nm
6.	ePKHKP ePKP2	A 23 20 09 A 20 17	<u>Fiji Islands Region</u> 21.76 S 179.07 W H = 23 01 24.3 h = 593.2 km MB = 5.1 D = 149.98 Az = 346 (NEIS) PKHKPV A 1.4s 46.5nm PKP2V A 1.6 33.0nm
7.	LmH LmV	B 02 32.3 B 32.4	<u>South of Sumba Island</u> 11.10 S 119.51 E H = 01 19 23.5 h = 33 km MB = 5.5 MS = 4.9 (NEIS) D = 109.8 LmH B 16s 0.4/um M = 5.1 LmV B 18 0.6/um 5.2
7.	ePn	A 03 29 42	<u>Yugoslavia</u> 45.03 N 17.1 E H = 03 27 59 h = 0 km D = 6.27 Az = 329 (ISC)
7.	LmH	B 05 07.2	<u>Lake Baikal Region</u> 52.30 N 106.69 E H = 04 34 10.3 h = 22 km MB = 3.9 (NEIS) D = 54.9 LmH B 16s 0.45/um M = 4.6

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Day	Phase	h m s	Remarks
7.	LmH B	18 20.3	<u>New Ireland Region</u> 3.71 S 151.30 E H = 17 10 44.1 h = 14 km MB = 5.0 MS = 4.8 (NEIS) D = 122.2 LmH B 20s 0.4/um M = 5.1 LmV B 18 0.45/um 5.2
	LmV B	26.4	
7.	eSg A	22 56 53	<u>Pyrenees</u> 43.26 N 0.33 W H = 22 50 35.1 h = 10 km (CSEM) D = 10.7
8.	ePKHKP A	03 19 07	<u>Fiji Islands Region</u> 20.76 S 177.86 W H = 03 00 15.2 h = 505.3 km MB=5.1 (NEIS) D = 148.3 h c. 530 km PKHKPV A 1.2s 24.4nm
	epPKP A	21 06	
9.	eP A	02 45 38	<u>E. USSR - N. E. China Border Region</u> 42.98 N 131.36 E H = 02 34 59.5 h = 499.3 km MB = 4.9 (NEIS) D = 73.0 PV A 1.0s 15.7nm M = 4.2
	ePP A	48 15	
9.	ePg A	09 05 48.5	<u>Czechoslovakia</u> 50.16 N 14.02 E H = 09 05 17.3 h = 0 km D = 1.61 Az = 289 (ISC)
	e A	05 54	
	eSg A	06 10.5	
9.	iPn A	09 24 06	<u>Austria</u> 46.31 N 13.31 E H = 09 22 56.0 h = 0 km D = 4.49 Az = 346 (ISC)
	ePg A	24 26	
	iSn A	24 56	
	eSg A	25 18	
9.	iPKHKP A	17 57 02	<u>Fiji Islands Region</u> 20.11 S 177.70 W H = 17 38 16.4 h = 560.6 km MB=4.8 (NEIS) D = 148.7 PKHKPV A 0.9s 38.9nm
	ePKP2 A	57 07	
10.	eSn A	00 57 33	<u>Yugoslavia</u> 45.8 N 15.7 E H = 00 54 41 h = 0 km (ISC) D = 6.5
	e A	57 38	

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Day	Phase	h m s	Remarks
10.	eP A	01 00 33	<u>Crete</u> 34.62 N 26.24 E H = 00 56 09.7 h = 63.7 km MB =4.1 (NEIS) D = 19.2
	e A	00 37	
10.	ePKHKP A	01 38 54.5	<u>South of Fiji Islands</u> 22.11 S 179.49 W H = 01 20 08.4 h = 586.5 km MB=5.1 (NEIS) D = 150.2
	ePKP2 A	39 02.5	
	epPKP A	41 15	
10.	eP A	06 35 50	<u>Crete</u> 34.93 N 23.02 E H = 06 31 41.8 h = 33 km MB = 4.6 MS = 5.1 (NEIS) D = 17.8 PV A 2.0s 42.7nm M = 4.3 PmV A 2.0 85.5nm 4.6 LmH B 16 4.2/um 4.8 LmV B 14 4.4/um 5.1
	Pm A	36 02	
	eS B	39 16	
	eSS B	39 32	
	LmH B	44.5	
	LmV B	44.6	
10.	eiPKP A	09 43 37.5	<u>Tonga Islands</u> 15.69 S 174.94 W H = 09 24 29.1 h = 240 km MB = 4.7 (NEIS) D = 144.7 PKPV A 1.1s 32.3nm
10.	eP A	10 33 52.5	<u>Near Coast of Guatemala</u> 13.95 N 91.68 W H = 10 21 11.5 h = 78.2 km MB=5.6 (NEIS) D = 87.6 PV A 1.0s 63.0nm M = 5.7 LmH B 17 0.5/um LmV B 17 0.2/um
	e(sP) A	34 28	
	LmH B	11 15.5	
	LmV B	15.5	
10.	eP A	13 52 29	<u>Java</u> 6.57 S 107.09 E H = 13 39 01.7 h = 104.5 km MB=5.9 (NEIS) D = 98.5 h = 143 km PV A 1.8s 40.5nm
	epP A	53 04	
	e(PP) A	56 30	
	eSKS B	14 02 48	
	eS B	03 40	
10.	eP A	16 09 09.5	<u>Lake Baikal Region</u> 57.29 N 106.24 E H = 16 00 03.3 h = 33 km MB = 4.8 (NEIS) D = 51.7

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Day	Phase	h m s	Remarks
cont. 10.	LmV B	16 14.0	PV A 0.7s 15.3nm M = 5.0
	LmH B	16.0	LmH B 16.5 0.6/um 4.7
			LmV B 17 0.45/um 4.7
10.	ePn A	20 48 08	<u>Austria</u> 46.38 N 13.37 E
	ePg A	48 27	H = 20 47 00.5 h = 0 km
	eSg A	49 22	D = 4.42 Az = 345 (ISC)
11.	ePKHKP A	05 27 29	<u>West of Macquarie Island</u>
	eX A	27 38	59.63 S 150.29 E
	ePKP2 A	27 46.5	H = 05 07 29.7 h = 33 km
	LmH B	06 50.7	MB = 5.4 MS = 5.1 (NEIS)
	LmV B	53.5	D = 155.1
			XV A 1.5s 15.1nm
			PKP2V A 2.0 34.2nm
			LmH B 20 0.4/um M = 5.1
			LmV B 20 0.7/um 5.4
11.	ePKP AB	14 27 39.5	<u>Tonga Islands</u> 15.39 S 173.21 W
	epPKP A	27 47.5	H = 14 08 04.6 h = 33 km
	LmH B	15 30.4	MB = 5.4 MS = 5.6 (NEIS)
	LmV B	40.0	D = 144.6 h = 29 km
			PKPV A 1.9s 45.5nm
			LmH B 22 1.0/um M = 5.5
			LmV B 18 1.4/um 5.8
			LmH, LmV either belong to this earthquake or to the following one.
11.	ePKP AB	14 32 03.5	<u>Tonga Islands</u> 15.40 S 173.30 W
	epPKP A	32 11.5	H = 14 12 29.9 h = 33 km
			MB = 5.3 MS = 5.6 (NEIS)
			D = 144.6 h = 29 km
			PKPV A 1.5s 25.1nm
			PKPV B 15 1.0/um
11.	eP AB	23 23 28.5	<u>Crete</u> 35.05 N 23.03 E
	Pm A	23 44	H = 23 19 23.7 h = 33 km
	eS B	26 50	MB = 5.8 MS = 6.0 (NEIS)
			D = 17.7

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Day	Phase	h m s	Remarks
cont. 11.	LmH B	23 32.4	PmV A 1.7s 521.2nm M = 5.4
	LmV B	32.4	LmH B 17 59.6/um 5.9
			LmV B 17 77.0/um 6.2
11.	eP A	23 35 52.5	<u>Crete</u> 35.13 N 23.05 E
	e A	36 00	H = 23 31 47.5 h = 33 km MB = 4.0 (NEIS)
			D = 17.4
12.	ePP A	00 08 05	<u>Mediterranean Sea</u> 35.04 N 22.86 E
	e A	08 08.5	H = 00 03 40.9 h = 37 km MB = 3.9 (NEIS)
			D = 17.8
12.	ePP A	02 35 07.5	<u>Crete</u> 34.90 N 23.14 E
			H = 02 30 44.3 h = 57 km MB = 4.0 (NEIS)
			D = 17.8
12.	eP A	03 02 02.5	<u>Crete</u> 34.99 N 23.17 E
	ePP A	02 15.5	H = 02 57 55.0 h = 36 km MB = 4.5 (NEIS)
	eS B	05 20	D = 17.8
	LmH B	10.8	PPV A 1.9s 37.9nm
	LmV B	10.8	LmH B 16 1.1/um M = 4.2
			LmV B 16 1.2/um 4.4
12.	eP A	07 08 35	<u>Crete</u> 35.05 N 23.04 E
			H = 07 04 31.2 h = 33 km MB = 4.0
			D = 17.66 Az = 335 (NEIS)
12.	eP A	14 06 47	<u>South Atlantic Ridge</u> 12.3 S 15.0 W
			H = 13 55 55 h = 33 km MB = 4.7
			D = 66.90 Az = 18 (ISC)
12.	eP AB	14 29 02	<u>South Atlantic Ridge</u> 12.78 S 14.69 W
	epP A	29 07.5	H = 14 18 06.6 h = 21 km MB=5.3 MS=5.3
	ePP B	31 30	D = 67.22 Az = 18 (NEIS)
	eS B	38 00	h = 21 km
	eSS B	42 10	PV A 2.5s 153.7nm M = 5.7
	LmH B	52.0	pPV A 1.5 75.4nm
	LmV B	57.5	LmH B 24 1.5/um 5.1
			LmV B 20 1.6/um 5.2

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Day	Phase	h m s	Remarks	
12.	eSn eSg	A A	22 25 24 26 40	<u>Pyrenees</u> 43.09 N 0.99 W H = 22 20 28.9 h = 33 km (NEIS) D = 11.1
12.	eP epP LmH LmV	A A B B	23 28 41 28 53 24 08.5 08.6	<u>Eastern Sea of Japan</u> 41.84 N 138.42 E H = 23 16 50.7 h = 32 km MB = 5.2 MS=5.1 D = 76.85 Az = 328 (NEIS) h = 41 km PV A 1.2s 24.4nm M = 5.1 LmH B 13.5 0.6/um 5.1 LmV B 12 0.7/um 5.2
12.	LmH LmV	B B	23 41.5 42.5	<u>South Sandwich Islands Region</u> 59.44 S 25.93 W H = 22 39 58.1 h = 33 km MB=5.3 MS=5.2 D = 113.6 (NEIS) LmH B 24s 0.7/um M = 5.2 LmV B 24 0.8/um 5.2
13.	eP	A	00 23 48.5	<u>Southern Iran</u> 27.67 N 56.49 E H = 00 16 07.4 h = 57 km MB = 4.7 D = 40.86 Az = 317 (NEIS) traces
13.	-iPKP epPKP ePP eSKKKS ePS eSS LmH LmV	AB A B B B B B B	00 41 27 41 37 44 30 52 00 55 25 01 03 15 48.4 49.5	<u>Tonga Islands</u> 15.45 S 173.29 W H = 00 21 52.6 h = 33 km MB=5.7 MS = 6.0 D = 144.68 Az = 355 (NEIS) h = 34 km PKPV A 2.0s 239.3nm PKPV B 12 1.8/um LmH B 18 2.5/um M = 6.0 LmV B 18 3.1/um 6.1
13.	e(Sg) e	A A	02 05 05 05 11	<u>West Poland (CLL)</u>
13.	ePKHKP	A	03 43 48	<u>Tonga Islands Region</u> 22.82 S 175.35 W H = 03 23 58.9 h = 33 km MB = 4.3 (NEIS) D = 151.6

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Day	Phase	h m s	Remarks	
13.	ePKP	A	04 19 18	<u>Tonga Islands</u> 15.47 S 173.03 W H = 03 59 44.8 h = 33 km MB = 5.1 (NEIS) D = 144.5 PKPV A 1.7s 30.3nm
13.	eP	A	05 07 25	<u>Hokkaido, Japan Region</u> 41.34 N 142.53 E H = 04 55 25.8 h = 49.2 km MB = 4.8 D = 78.85 Az = 331 (NEIS)
13.	eP e	A A	13 08 16 08 17.5	<u>Crete</u> 34.95 N 23.07 E H = 13 04 09.9 h = 33 km MB = 4.3 D = 17.76 Az = 336 (NEIS)
14.	eP epF	A A	06 04 10 04 15	<u>Southern Sinkiang Provinc, China</u> 36.97 N 79.63 E H = 05 55 20.7 h = 16 km MB = 4.8 D = 49.26 Az = 309 (NEIS) h = 21 km
14.	ePn	A	08 53 05	<u>Serbia</u> 43.09 N 19.9 E H = 08 50 43.2 h = 0 km D = 9.46 Az = 326 (ISC)
14.	iPg iSg	A A	09 14 08.5 14 22.5	D c. 1.1
14.	ePn ePb ePg eSn eSg	A A A A A	13 39 24 39 37 39 50 40 27 40 42	<u>Austria</u> 46.34 N 13.29 E H = 13 38 18.1 h = 10 km D = 4.45 Az = 346 (NEIS)
14.	LmV LmH	B B	15 53.5 55.0	<u>South Sandwich Islands Region</u> 56.38 S 25.66 W H = 14 51 03.9 h = 38 km MB = 5.9 MS = 5.9 (NEIS) D = 110.7 LmH B 19s 2.0/um M = 5.7 LmV B 17 1.8/um 5.7

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Day	Phase	h m s	Remarks
14.	eSg	A 18 39 06	<u>West Poland</u> (CLL)
14.	eP	A 18 53 14	<u>Crete</u> 34.99 N 23.06 E H = 18 49 07.6 h = 33 km MB = 4.5 D = 17.72 Az = 335 (NEIS) PV A 0.8s 23.1nm M = 4.4
15.	eP	A 15 57 46	<u>Crete</u> 34.91 N 23.01 E H = 15 53 38.9 h = 33 km MB = 4.5 (NEIS) D = 17.7
16.	ePKP2	A 03 30 09	<u>Kermadec Islands</u> 29.74 S 178.83 W H = 03 10 04.0 h = 206.7 km MB = 5.0 (NEIS) D = 157.7 PKP2V A 1.2s 24.4nm
16.	eP	A 16 10 40.5	<u>Hindu Kush Region</u> 36.45 N 70.67 E H = 16 02 52 h = 200.2 km MB = 4.6 D = 43.93 Az = 308 (NEIS) traces
16.	LmV	B 22 37.6	<u>South Sandwich Islands Region</u> 56.38 S 25.88 W H = 21 35 05.9 h = 33 km MB = 4.9 MS = 5.1 (NEIS) D = 111 LmH B 16s 0.5/um M = 5.2 LmV B 20 0.7/um 5.2
	LmH	B 39.0	
16.	iPn	AB 23 49 15	<u>Austria</u> 46.27 N 12.97 E H = 23 48 08.4 h = 25.1 km MB=5.1 MS=5.1 D = 4.47 Az = 349 (NEIS) PnV A 0.8s 1652.0nm LmH B 5.8 80.5/um M = 5.5 LmV B 8.0 91.4/um
	iPg	B 49 33	
	iSn	B 50 05	
	iSg	B 50 28	
	LmV	B 51.1	
	LmH	B 51.2	
17.	ePn	A 00 22 45.5	D c. 4.0
	ePg	A 23 05	
	eSg	A 23 54	

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Day	Phase	h m s	Remarks
17.	ePn	A 00 32 19	<u>Austria</u> 46.26 N 13.01 E H = 00 31 13.1 h = 33 km D = 4.49 Az = 449 (NEIS)
	eSn	A 33 09.5	
	eSg	A 33 36	
17.	ePn	A 05 19 42	<u>Northern Italy</u> 46.53 N 12.81 E H = 05 18 39.4 h = 33 km D = 4.19 Az = 350 (NEIS)
	eSn	A 20 34	
	eSg	A 20 57	
17.	eP	AB 05 37 36	<u>South of Mariana Islands</u> 11.77 N 143.13 E H = 05 23 30.2 h = 33 km MB=6.0 MS=6.1 D = 104.88 Az = 330 (NEIS) h = 41 km PPV A 2.0s 76.9nm M = 5.9 LmH B 20 12.9/um 6.5 LmV B 20 10.0/um 6.4
	epP	A 37 47	
	ePP	A 41 54	
	epPP	A 42 07	
	eSKS	B 48 05	
	eS	B 49 20	
	ePS	B 51 05	
	ePPS	B 52 00	
	eSS	B 56 45	
	LmV	B 06 29.6	
	LmH	B 29.8	
17.	e(Pg)	A 09 00 30	<u>Czechoslovakia</u> 50.75 N 14.42 E H = 09 00.0 explosion of 14.0 t (KHC) D = 1.79 Az = 268
	eSg	A 00 55	
17.	eP	A 18 37 14	<u>Southern Alaska</u> 61.03 N 152.92 W H = 18 26 29.9 h = 150.3 km MB = 4.8 D = 67.98 Az = 11 (NEIS) h = 153 km PV A 1.0s 19.7nm M = 4.9
	epP	A 37 51	
17.	ePg	A 21 26 26	D c. 4.4
	eSn	A 27 19	
	eSg	A 27 41	
17.	iPn	A 23 17 59	<u>Northern Italy</u> 46.27 N 12.93 E H = 23 16 51.5 h = 10 km D = 4.47 Az = 349 (NEIS) PnV A 0.6s 46.0nm
	iPg	A 18 20	
	iSn	A 18 49	
	iSg	A 19 11	

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Day	Phase	h m s	Remarks
cont. 17.	LmH B	23 19.9	LmH B 8s 0.4/um M = 3.0
	LmV B	19.9	LmV B 6.5 0.7/um
18.	eP A	05 56 43	<u>Near Coast of Guatemala</u> 13.56 N 89.95 W H = 05 44 09.3 h = 108 km MB = 5.0 (NEIS) D = 86.8 PV A 1.2s 24.4nm M = 5.4
18.	eP A	06 01 30	<u>Crete</u> 34.92 N 23.31 E H = 05 57 19.3 h = 33 km MB = 4.3 D = 17.87 Az = 335 (NEIS) traces
18.	ePn A	07 03 27	<u>Northern Italy</u> 46.30 N 12.93 E
	ePg A	03 45	H = 07 02 20.0 h = 0 km (CSEM)
	eSn A	04 15	D = 4.3
	eSg A	04 39	
18.	ePn A	09 59 26	<u>Northern Italy</u> 46.16 N 13.09 E
	ePg A	59 47	H = 09 58 19.5 h = 10 km (CSEM)
	eSn A	10 00 17	D = 4.3
	eSg A	00 41	
18.	ePKIKP A	10 05 28	<u>New Hebrides Islands</u> 13.58 S 166.75 E
	eSKP A	09 04	H = 09 46 10.4 h = 73.3 km MB = 5.5 D = 137.86 Az = 336 (NEIS) traces
18.	eP A	13 16 30	<u>Svalbard Region</u> 76.2 N 7.0 E H = 13 11 00 D = 25.76 Az = 173 (ISC)
18.	ePn A	21 39 56.5	<u>Austria</u> 46.14 N 13.09 E
	ePg A	40 14	H = 21 38 47.6 h = 33 km MB = 4.5
	eSn A	40 46	D = 4.62 Az = 348 (NEIS)
	eSg A	41 10	

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Day	Phase	h m s	Remarks
19.	ePn A	00 00 47	<u>Federal Republic of Germany</u>
	iPg A	00 58	48.00 N 9.25 E
	eSn A	01 20	H = 00 00 00.2 h = 33 km
	iSg A	01 34	D = 3.06 Az = 29 (NEIS)
19.	ePn A	00 04 49	<u>Federal Republic of Germany</u>
	eSb A	05 24	47.8 N 8.8 E
	eSg A	05 36	H 00 03 40 h = 10 km (ISC) D = 3.4
19.	eP A	00 30 08.5	<u>Southern Iran</u> 29.63 N 51.35 E H = 00 23 06 h = 34.7 km MB = 4.7 D = 36.34 Az = 317 (NEIS) PV A 1.2s 12.2nm M = 4.7
19.	eSg A	02 37 27	<u>Northern Italy</u> 46.2 N 12.6 E H = 02 35 03.5 h = 11 km MB = 3.1 (TRI) D = 4.5
19.	ePKP A	05 31 32	<u>Ceram Sea</u> 1.98 S 126.63 E
	ePP AB	31 52	H = 05 13 09.2 h = 33 km MB=5.9 MS=5.9
	eSKS B	38 40	D = 107.19 Az = 323 (NEIS)
	eS diff B	39 20	LmH B 18.5s 1.3/um M = 5.5
	ePS B	41 00	LmV B 17 2.0/um 5.8
	ePPS B	42 00	
	eSS B	47 20	
	LmV B	06 21.9	
	LmH B	28.5	
19.	eiP A	05 45 35.5	<u>Kurile Islands</u> 44.19 N 149.70 E H = 05 33 38 h = 55.6 km MB = 4.9 D = 78.76 Az = 334 (NEIS) PV A 1.8s 33.8nm M = 5.0
19.	ePKP A	06 31 24	<u>Samoa Is. Region</u> 15.81 S 172.33 W
	epPKP A	31 32	H = 06 11 47 h = 33 km MB = 4.8 D = 145.10 Az = 356 (NEIS) h = 29 km

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Day	Phase	h m s	Remarks	
19.	ePKP epPKP	A A	13 09 23 09 28	<u>Fiji Islands</u> 16.37 S 178.03 E H = 12 49 46.2 h = 22 km MB=5.5 MS=5.1 D = 144.10 Az = 345 (NEIS) h = 18 km
19.	ePKHKP ePKP2	A A	14 37 34 37 52	<u>Kermadec Islands Region</u> 27.80 S 177.99 W H = 14 17 54.1 h = 206 km MB = 5.1 D = 156.05 Az = 345 (NEIS) PKP2V A 1.3s 21.8nm
19.	eP	A	14 49 51.5	<u>Kurile Islands</u> 44.42 N 149.51 E H = 14 37 52.3 h = 33 km MB = 5.0 D = 78.50 Az = 334 (NEIS) PV A 1.3s 21.8nm M = 5.0
19.	ePn eSg	A A	19 57 32 58 48.5	<u>Northern Italy</u> 46.26 N 13.03 E H = 19 56 26.0 h = 10 km (CSEM) D = 4.4
19.	1P	A	22 29 18	<u>Southern Alaska</u> 60.19 N 152.53 W H = 22 18 24 h = 104.1 km MB = 4.5 D = 68.78 Az = 11 (NEIS) PV A 0.8s 15.4nm M = 4.9
20.	eP epP	A A	02 11 55.5 12 08	<u>Kurile Islands</u> 44.01 N 149.54 E H = 01 59 56.3 h = 48 km MB = 4.7 D = 78.88 Az = 334 (NEIS) h = 56 km
20.	LmH LmV	B B	17 43.4 45.2	<u>East Papua New Guinea Region</u> 6.43 S 147.44 E H = 16 54 16.0 h = 79 km MB = 4.5 (NEIS) D = 122.6 LmH B 20s 0.4/um LmV B 20 0.4/um
20.	eSg	A	20 26 43	<u>Yugoslavia</u> 43.11 N 18.74 E H = 20 21 39.2 h = 10 km (CSEM) D = 9.0

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Day	Phase	h m s	Remarks	
20.	ePn eSn eSg LmH LmV	A A A A A	20 30 27 32 06 33 08 33.5 33.5	<u>Jugoslavia</u> 43.21 N 18.59 E H = 20 28 18.8 h = 33 km MB = 4.6 D = 8.83 Az = 330 (NEIS)
21.	eP LmH LmV	A B B	03 24 15 56.5 04 01.7	<u>Sakhalin Islands</u> 46.11 N 141.33 E H = 03 12 42.5 h = 59 km MB = 4.8 D = 74.28 Az = 329 (NEIS) LmH B 16s 0.5/um LmV B 16 0.3/um
21.	ePKHKP ePKP2 LmH LmV	AB A B B	09 47 57 48 16 11 05.1 06.1	<u>Tonga Island Region</u> 23.50 S 175.23 W H = 09 27 59.5 h = 14.9 km MB = 5.5 MS = 5.3 (NEIS) D = 157.7 PKHKPV A 1.8s 47.2nm PKP2V A 1.6 71.4nm LmH B 20 0.4/um M = 5.1 LmV B 18 0.5/um 5.3
21.	eP epP	A A	10 47 23.5 47 30	<u>Andreanof Islands, Aleutian Is.</u> 51.37 N 178.36 W H = 10 35 26.6 h = 30 km MB = 4.9 (NEIS) D = 78.0 h = 24 km
21.	LmV LmH	B B	14 10.4 10.5	<u>Revilla Gigedo Islands Region</u> 20.03 N 109.15 W H = 13 15 57.3 h = 33 km MB = 5.7 MS = 4.7 (NEIS) D = 92.5 LmH B 16.5s 1.0/um M = 5.3 LmV B 18 1.2/um 5.4
21.	eP	A	15 01 19	<u>Kodiak Is. Region</u> 56.66 N 152.44 W H = 14 49 54.6 h = 20.2 km MB=4.8 (NEIS) D = 72.3

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Day	Phase	h m s	Remarks
21.	ePKP2 A	17 25 25	<u>Tonga Islands</u> 20.99 S 173.80 W H = 17 05 29.3 h = 33 km MB = 4.5 (NEIS) D = 150.1
21.	eP A	17 50 54	<u>Near East Coast of Kamchatka</u>
	epP A	51 05	55.73 N 162.32 E
	LmH B	18 22.2	H = 17 39 38.8 h = 48 km
	LmV B	23.5	MB = 5.1 MS = 4.9 (NEIS) D = 71.2 h = 42 km LmH B 20s 0.5/um M = 4.8 LmV B 20 0.7/um 4.9
21.	-1P AB	21 12 52	<u>Northwest of Kurile Islands</u>
	Pm A	12 55.5	51.75 N 155.21 E
	epP AB	13 48	H = 21 01 44 h = 231 km MB = 5.6 (NEIS)
	esP AB	14 12	D = 73.4 h = 250 km
	ePP B	15 30	PV A 1.2s 65.0nm M = 5.2
	esPP B	16 46	PmV A 2.2 425.3nm 5.8
	ePPP B	17 28	PPV B 12 1.6/um 5.9
	esPPP B	18 32	
	eS B	22 05	
	ePS B	23 05	
	esS B	23 40	
	esPS B	24 00	
	eSS B	26 35	
	esSS B	28 20	
	ePKPPKS A	44 00	
22.	ePn A	07 52 38	<u>Northern Italy</u> 46.21 N 13.09 E
	ePb A	52 50	H = 07 51 31.5 h = 10 km (CSEM)
	ePg A	53-03	D = 4.3
	eSn A	53 28	
	eSb A	53 43	
	eSg A	53 53	
22.	ePKIKP A	08 09 38.5	<u>East of North Is., New Zealand</u>
	epPKP A	09 48	36.82 S 179.75 W
	ePKP2 A	10 32	H = 07 49 38.7 h = 33 km MB = 5.2 (NEIS)
	epPKP2 A	10 42	D = 163.9 h = 36 km PKP2V A 2.0s 42.8nm

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Day	Phase	h m s	Remarks
23.	ePn A	03 00 38	<u>Albania</u> 41.50 N 20.07 E
	e A	00 50	H = 02 58 01.2 h = 23.3 km
	ePb A	01 15	MB = 4.7 MS = 4.5 (NEIS)
	ePg A	01 41	D = 10.9
	eSn A	02 42	LmH B 6s 3.2/um M = 4.8
	eSb A	03 40	LmV B 9 3.9/um
	eSg A	04 00	
	LmH B	04.5	
	LmV B	05.4	
23.	ePKIKP A	06 16 23	<u>South of Sumbawa Island</u>
	epPKP A	16 44	11.21 S 118.22 E
	ePP AB	16 50.5	H = 05 57 55.6 h = 33 km
	LmH B	07 04.6	MB = 6.0 MS = 5.4 (NEIS)
	LmV B	12.6	D = 109.1 PPV A 1.6s 82.4nm M = 6.2 LmH B 21 0.9/um 5.3 LmV B 16 0.4/um 5.1
23.	ePn A	15 14 53	<u>Northern Italy</u> 46.33 N 12.93 E
	eSn A	15 40	H = 15 13 44.7 h = 9 km MB = 3.0 (TRI)
	eSg A	16 07	D = 4.3
23.	ePKIKP A	21 03 56	<u>Banda Sea</u> 5.76 S 128.83 E
	ePP A	04 43	H = 20 45 56.0 h = 309 km MB = 5.5 (NEIS)
	e(pPKP) A	05 18	D = 111.5 (h = 360 km) PPV A 1.4s 11.6nm M = 4.9
23.	ePn A	22 35 54	<u>Northern Italy</u> 44.35 N 7.44 E
	ePb A	36 21	H = 22 34 09.7 h = 10 km (NEIS)
	eSn A	37 18	D = 7.1
	eSb A	37 38	
	eSg A	38 00	
24.	ePn A	00 51 00.5	<u>Austria</u> 46.36 N 13.04 E
	eSn A	51 52	H = 00 49 51.7 h = 0 km
	eSg A	52 14	D = 4.39 Az = 348 (ISC)

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Day	Phase	h m s	Remarks
24.	eP	A 05 13 32	<u>Tunisia</u> 34.23 N 9.27 E H = 05 09 41.6 h = 33 km D = 16.50 Az = 5 (ISC)
24.	eP	A 20 47 13	<u>Crete</u> 35.07 N 23.22 E H = 20 43 08.9 h = 64.1 MB = 4.3 (NEIS) D = 17.7
	ePP	A 47 26	
	LmH	B 56.0	LmH B 12s 0.3/um
	LmV	B 56.0	LmV B 16 0.5/um
25.	eP	A 03 16 30	<u>Crete</u> 34.89 N 23.15 E H = 03 12 23.5 h = 63.7 km MB = 4.2 (NEIS) D = 17.9
	ePP	A 16 45	
	LmV	B 25.4	LmV B 18s 0.6/um
25.	e(PP)	A 08 28 30	<u>South Western Russia</u> 48.44 N 23.0 E H = 08 25 02 h = 1 km (ISC) D = 12.7
25.	ePKIKP	A 16 33 45	<u>Fiji Islands Region</u> 21.83 S 179.45 W H = 16 15 05.9 h = 605.7 km MB=5.4 (NEIS) D = 150.0
	iPKHKP	A 33 50	
	eIPKP2	A 33 57.5	
	epPKP	A 36 12	PKHKPV A 1.6s 49.5nm PKP2V A 1.2 28.5nm
25.	ePP	A 18 50 38	<u>South of Sumbawa Island</u> 11.30 S 117.25 E H = 18 31 39.1 h = 33 km MB = 5.6 MS = 4.9 (NEIS) D = 108.5
	epPP	A 50 48	
25.	ePP	A 20 01 18	<u>Turkey</u> 38.69 N 31.05 E H = 19 56 56.7 h = 18.1 km MB = 4.3 (NEIS) D = 18.2
	LmV	B 09.6	FPV traces
	LmH	B 09.8	LmH B 12s 0.3/um M = 3.7 LmV B 12 0.4/um 4.1

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Day	Phase	h m s	Remarks
26.	eP	A 01 48 26	<u>Off East Coast of Kamchatka</u> 52.69 N 159.44 E H = 01 36 55.4 h = 33 km MB = 4.6 (NEIS) D = 73.5 PV A 1.0s 23.6nm M = 5.2
26.	LmV	B 06 42.6	<u>West of Macquarie Island</u> 60.04 S 150.59 E H = 04 56 57.1 h = 33 km MB = 5.3 MS = 5.7 (NEIS) D = 155.2
	LmH	B 43.1	LmH B 17.5s 1.1/um M = 5.6 LmV B 17.5 1.5/um 5.8
26.	eP	A 08 32 49	<u>Near East Coast of Kamchatka</u> 53.38 N 160.75 E H = 08 21 21.7 h = 43.3 km MB=4.8 MS=4.6 D = 73.14 Az = 340 (NEIS) PV A 1.1s 20.2nm M = 5.0
26.	eP	A 19 57 40	<u>Pakistan</u> 25.43 N 68.17 E H = 19 48 48.5 h = 33 km MB = 4.5 D = 49.72 Az = 316 (NEIS)
	LmH	B 20 25.7	LmH B 16s 0.4/um M = 4.5
	LmV	B 25.9	LmV B 16 0.5/um 4.7
27.	eP	A 14 12 18	<u>Southern Nevada</u> 37.15 N 116.07 W H = 14 00 00.2 h = 0 km MB = 4.8 D = 81.21 Az = 31 (NEIS) Nuclear explosion COULMMIERS at the Nevada Test Site (ERDA) PV A 1.4s 14.0nm M = 4.8
	e	A 12 32	
27.	ePKHKP	A 17 41 56	<u>Tonga Islands</u> 21.49 S 174.29 W H = 17 22 05.8 h = 33 km MB = 5.0 D = 150.53 Az = 352 (NEIS)
	ePKP2	A 42 05	PKHKPV A 1.4s 41.9nm

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Day	Phase	h m s	Remarks
28.	iPn	A 01 44 22	<u>Northern Italy</u> 46.19 N 12.91 E
	iPb	A 44 33	H = 01 43 13.8 h = 10 km
	iPg	A 44 42	D = 4.55 Az = 350 (NEIS)
	iSn	A 45 13	
	iSb	A 45 25	
	iSg	A 45 40	
28.	ePn	A 01 57 46	<u>Northern Italy</u> 46.16 N 12.89 E
	iPg	A 58 05	H = 01 56 37.4 h = 10 km
	iSn	A 58 37	D = 4.57 Az = 350 (NEIS)
	iSg	A 59 02	
28.	ePKIKP	A 12 31 54	<u>Tonga Islands</u> 21.52 S 174.23 W
	ePKHKP	A 32 00	H = 12 12 10.3 h = 33 km MB=5.6 MS=4.8
	ePKP2	A 32 08	D = 150.57 Az = 352 (NEIS) PKHKPV A 1.5s 95.5nm
28.	iPn	A 13 34 46	<u>Northern Italy</u> 46.28 N 12.97 E
	ePg	A 35 06	H = 13 33 38.2 h = 6 km (TRI)
	iSn	A 35 37	D = 4.4
	eSg	A 36 03	
28.	ePn	A 13 41 11	<u>Northern Italy</u> 46.15 N 12.91 E
	ePg	A 41 30	H = 13 40 02.4 h = 10 km
	eSn	A 42 02	D = 4.58 Az = 350 (NEIS)
	eSg	A 42 26	
28.	ePn	A 17 15 55	D c. 4.4
	ePg	A 16 13	
	eSg	A 17 13	
29.	LmV	B 02 56.6	LmH B 14s 0.2/um
	LmH	B 56.7	LmV B 16 0.4/um
29.	ePg	A 06 20 43	<u>Northern Italy</u> 46.30 N 12.97 E
	eSn	A 21 14	H = 06 19 13.1 h = 9 km (TRI)
	eSg	A 21 38	D c. 4.5

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Day	Phase	h m s	Remarks
29.	eP	A 08 08 20	<u>Off East Coast of Kamchatka</u> 52.62 N 159.63 E H = 07 56 49 h = 33 km MB = 4.7 (NEIS) D = 73.6
	ePg	A 15 36 38	D c. 4.5
29.	eSn	A 37 29	
	eSg	A 37 39	
29.	ePKHKP	A 18 51 12	<u>Tonga Is. Region</u> 18.30 S 172.78 W H = 18 31 29.4 h = 33 km MB = 5.3 D = 147.54 Az = 355 (NEIS) PKHKPV A 1.4s 30.2nm
	eP	A 07 05 14	<u>Western Kazakh SSR</u> 47.80 N 48.15 E H = 06 59 55.6 h = 0 km MB = 5.1 D = 23.87 Az = 291 (NEIS)
30.	epP	A 07 23 18.5	<u>Nicaragua</u> 11.25 N 85.83 W
	LmH	B 59.2	H = 07 10 25.3 h = 66 km MB = 5.2
	LmV	B 59.2	D = 86.07 Az = 39 (NEIS) LmH B 18s 1.2/um LmV B 18 1.5/um
30.	eP	A 10 31 10	<u>Utah</u> 40.52 N 110.44 W
	epP	A 31 13.5	H = 10 19 21 h = 5 km MB = 5.0 D = 76.03 Az = 34 (NEIS) h = 13 km
30.	ePKP	A 11 57 22	<u>Tonga Islands</u> 15.96 S 173.03 W
	epPKP	A 57 33	H = 11 37 46.2 h = 33 km MB=5.0 MS=4.5 D = 145.20 Az = 355 (NEIS) h = 39 km PKPV A 1.6s 38.5nm
30.	eP	A 16 44 33	<u>Western Mediterranean Sea</u>
	e	A 44 38	38.87 N 10.55 E H = 16 41 42.5 h = 10 km D = 11.80 Az = 3 (NEIS)

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Day	Phase	h m s	Remarks
30.	LmH B	17 08.9	<u>Eastern Caucasus</u> 40.08 N 44.99 E H = 16 50 37.2 h = 9.5 km MB = 4.8 D = 25.51 Az = 306 (NEIS) LmH B 14s 0.5/um M = 4.2 LmV B 16 0.6/um 4.3
	LmV B	12.7	
30.	eP A	19 25 15	<u>Tadzhik - Sinkiang Border Region</u> 39.39 N 73.39 E H = 19 17 08 h = 19.4 km MB = 5.0 D = 43.88 Az = 306 (NEIS) LmH B 16s 1.0/um M = 4.8 LmV B 17 0.9/um 4.8
	LmH B	44.5	
	LmV B	45.5	
30.	ePKP A	21 42 33	<u>Samoa Is. Region</u> 16.04 S 172.93 W H = 21 22 57.5 h = 33 km MB=5.4 MS=5.5 D = 145.29 Az = 355 (NEIS) h = 21 km PKPV A 1.6s 99.0nm PKPV B 8 1.6/um LmH B 20 1.0/um M = 5.5 LmV B 20 1.1/um 5.6
	epPKP A	42 39	
	LmH B	22 47.0	
	LmV B	48.7	

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Day	Phase	h m s	Remarks
1.	ePn A	13 07 43	<u>Poland</u> 51.2 N 18.2 E H = 13 06 37 h = 33 km D = 4.19 Az = 264 (ISC)
	e A	08 22	
1.	eP A	13 17 54	<u>Nicobar Islands Region</u> 9.48 N 93.71 E H = 13 06 08.1 h = 114 km MB = 4.9 (NEIS) D = 77.7 PV A 1.1s 16.1nm M = 4.7
1.	LmH B	13 53.5	<u>South of Sumbawa Island</u> 10.08 S 117.50 E H = 12 52 31.1 h = 33 km MB = 5.6 (NEIS) D = 107.8 LmH B 24s 1.8/um M = 5.5 LmV B 16 0.6/um 5.3
	LmV B	14 01.2	
2.	ePn A	11 51 02	<u>Northern Italy</u> 46.37 N 12.68 E H = 11 49 58.3 h = 33 km D = 4.34 Az = 351 (NEIS)
	ePg A	51 21	
	iSn A	51 52	
	eSg A	52 11.5	
2.	eP A	13 16 11	<u>Panay, Philippine Islands</u> 11.57 N 121.57 E H = 13 02 57.2 h = 33 km MB=5.4 MS=5.6 D = 93.39 Az = 323 (NEIS) PV A 1.4s 16.3nm M = 5.3 LmH B 17 3.8/um 5.9 LmV B 17 2.6/um 5.8
	ePP A	20 06	
	LmH B	55.9	
	LmV B	14 01.3	
2.	LmH B	19 45.0	<u>Off Coast of Northern Peru</u> 8.98 S 79.18 W H = 18 46 35.6 h = 46 km MB = 5.3 MS = 4.7 (NEIS) D = 98.2 LmH B 18s 0.4/um M = 5.0 LmV B 18 0.3/um 4.9
	LmV B	45.0	
3.	eP A	04 48 42	<u>North Atlantic Ocean</u> 14.14 N 48.18 W H = 04 38 33.7 h = 33 km MB=5.1 MS=4.7 D = 60.14 Az = 39 (NEIS)
	LmH B	05 15.0	
	LmV B	15.0	

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Day	Phase	h m s	Remarks
3.	ePKP epPKP	A 05 08 08.5 A 08 20	<u>Loyalty Islands</u> 20.41 S 168.29 E H = 04 48 33.6 h = 33 km MB = 5.4 D = 144.65 Az = 334 (NEIS) h = 41 km PKPV A 1.2s 24.4nm
3.	ePKIKP LmH LmV	A 05 38 50 B 06 33.0 B 33.0	<u>New Ireland Region</u> 2.63 S 149.87 E H = 05 19 50.2 h = 12.1 km MB=4.9 MS=5.1 D = 120.64 Az = 330 (NEIS) PKIKPV A traces LmH B 20s 0.5/um M = 5.1 LmV B 20 0.8/um 5.4
3.	ePKP	A 06 23 59	<u>Tonga</u> 16.80 S 173.40 W H = 06 04 20.0 h = 33 km D = 146.00 Az = 354 (ISC) PKPV A 1.0s 19.7nm
3.	epP	A 07 56 32	<u>New Hebrides Islands</u> 19.93 S 169.42 E H = 07 36 51.1 h = 47.5 km MB = 4.9 D = 144.67 Az = 335 (NEIS)
3.	ePKP e	A 12 39 59 A 40 10.5	<u>Loyalty Islands</u> 20.36 S 168.29 E H = 12 20 21.5 h = 10.8 km MB = 5.1 D = 144.61 Az = 334 (NEIS) PKPV A 1.5s 50.3nm
3.	ePKHKP	A 19 22 48	<u>Fiji Islands Region</u> 20.42 S 178.23 W H = 19 04 01.5 h = 547.2 km MB = 4.6 D = 148.85 Az = 348 (NEIS) PKHKPV A 0.9s 19.5nm
3.	ePKP2 e LmH LmV	A 19 56 00 A 56 14.5 B 21 18.0 B 20.0	<u>Kermadec Islands Region</u> 30.08 S 176.81 W H = 19 35 30.1 h = 33 km MB = 4.8 (NEIS) D = 158.5 LmH B 16s 0.2/um M = 4.9 LmV B 18 0.25/um 5.1

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Day	Phase	h m s	Remarks
3.	-eiP	A 22 57 42.5	<u>Northern Sumatra</u> 0.48 N 98.73 E H = 22 44 52.3 h = 13.4 km MB=5.5 MS=4.7 D = 87.80 Az = 320 (NEIS) PV A 1.6s 49.5nm M = 5.6
4.	eP e e	A 15 51 12.5 A 51 14.5 A 51 21	<u>Honshu, Japan</u> 36.09 N 139.74 E H = 15 38 56.6 h = 66.2 km MB = 5.4 D = 82.30 Az = 330 (NEIS)
4.	eP e	A 21 45 54 A 46 02.5	<u>Greece</u> 38.78 N 20.39 E H = 21 42 45.0 h = 10 km (CSEM) D = 13.40
5.	eP Pm eS LmH LmV	AB 05 38 54 A 39 12 B 42 28 B 46.4 B 48.4	<u>Turkey</u> 40.96 N 33.41 E H = 05 34 46.8 h = 33 km MB=5.3 MS=5.8 D = 17.96 Az = 310 (NEIS) PmV A 2.8s 1437.8nm M = 5.6 SH B 15 7.1/um 6.1 LmH B 18 27.6/um 5.6 LmV B 11.5 28.4/um 5.9
5.	ePKP2	A 10 48 08	<u>Kermadec Islands Region</u> 29.01 S 176.89 W H = 10 27 46.3 h = 55.9 km MB=5.4 MS=5.7 D = 157.45 Az = 346 (NEIS)
5.	ePKHKP	A 13 48 42.5	<u>Tonga Islands Region</u> 22.58 S 175.74 W H = 13 28 50.6 h = 33 km MB = 4.8 D = 151.40 Az = 350 (NEIS)
5.	ePKIKP iPKHKP ePKP2	A 14 34 01 AB 34 04.5 A 34 07.5	<u>Fiji Islands Region</u> 18.58 S 177.72 W H = 14 15 24.3 h = 572.6 km MB = 5.6 D = 147.15 Az = 349 (NEIS) PKHKPV A 1.2s 179.0nm
5.	e(P)	A 16 11 50	<u>Mediterranean Sea</u> 34.7 N 23.0 E H = 16 07 35 h = 42 km MB = 4.6 D = 17.95 Az = 336 (ISC)

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Day	Phase	h m s	Remarks
6.	LmH B	07 43.6	<u>North Atlantic Ocean</u> 56.72 N 34.32 W H = 07 26 52 h = 33 km MB = 4.5 D = 27.50 Az = 83 (NEIS) LmH B 14s 0.9/um M = 4.6 LmV B 16 1.0/um 4.6
	LmV B	43.6	
7.	LmH B	05 46.6	<u>South of Sumbawa Islands</u> 9.97 S 117.33 E H = 04 45 43.2 h = 33 km MB = 5.7 MS = 5.6 (NEIS) D = 107.6 LmH B 23s 3.1/um M = 5.8 LmV B 19 1.6/um 5.6
	LmV B	54.5	
7.	ePKP A	12 29 12	<u>South of Sumbawa Islands</u> 9.95 S 117.32 E H = 12 10 43.7 h = 33 km MB = 5.9 MS = 6.3 D = 107.59 Az = 320 (NEIS) LmH P 24.5s 10.1/um M = 6.3 LmV B 17 3.8/um 6.0
	e(PP) A	29 46	
	e(SKKS) B	37 15	
	LmH B	13 11.6	
	LmV B	21.2	
7.	eP A	12 46 02	<u>Greece - Albania Border Region</u> 39.19 N 20.78 E H = 12 42 58.4 h = 44 km (CSEM) D = 13.15
7.	e A	14 57 26	<u>South of Sumbawa Islands</u> 11.27 S 119.35 E H = 14 38 36.6 h = 33 km MB = 5.5 D = 109.87 Az = 320 (NEIS) traces
7.	LmH B	18 42.5	<u>Sumbawa Is. Region</u> 9.85 S 117.26 E H = 17 36 46.2 h = 33 km MB = 5.8 MS = 5.8 D = 107.47 Az = 320 (NEIS) LmH B 22s 2.6/um M = 5.7 LmV B 20 1.3/um 5.5
	LmV B	46.5	
7.	e A	21 55 05	<u>Sumbawa Is. Region</u> 9.92 S 117.29 E H = 21 36 11.3 h = 33 km MB = 5.8 MS = 5.5 D = 107.54 Az = 320 (NEIS) traces

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Day	Phase	h m s	Remarks
7.	LmH B	23 53.4	<u>Ryukyu Islands</u> 28.87 N 128.19 E H = 23 06 04.9 h = 33 km MB = 5.1 MS = 4.5 D = 83.07 Az = 325 (NEIS) LmH B 17.5s 2.4/um M = 5.6 LmV B 16 1.2/um 5.4
	LmV B	24 00.2	
8.	ePKHKP A	17 38 11	<u>Fiji Islands Region</u> 21.63 S 179.32 W H = 17 19 27.9 h = 605.1 km MB = 5.0 D = 149.79 Az = 346 (NEIS)
	ePKP2 A	38 19	
8.	eP A	21 20 12.5	<u>Iuzon, Philippine Islands</u> 13.33 N 124.49 E H = 21 06 52.8 h = 32 km MB = 5.4 MS = 5.5 D = 93.68 Az = 324 (NEIS) PV A 1.9s 30.3nm M = 5.4 PPV A 1.9 37.9nm 5.5 LmH B 16.5 3.1/um 5.9 LmV B 15 2.1/um 5.7
	ePP A	23 57	
	eSKS B	30 40	
	LmH B	22 05.8	
	LmV B	10.5	
9.	eP A	04 18 21.5	<u>Komandorsky Is. Region</u> 54.83 N 166.01 E H = 04 06 55.4 h = 33 km MB = 4.9 MS = 3.9 D = 72.74 Az = 343 (NEIS) PV A 1.3s 19.7nm M = 5.0
9.	LmH B	11 04.0	<u>Sumbawa Island Region</u> 9.93 S 117.29 E H = 10 03 21.9 h = 33 km MB = 5.6 MS = 5.1 (NEIS) D = 107.5 LmH B 20s 0.6/um M = 5.2 LmV B 20 0.35/um 4.9
	LmV B	13.0	
9.	e A	11 06 53	<u>Novaya Zemlya</u> 73.63 N 53.16 E H = 11 00 00.3 h = 0 km MB = 4.5 (NEIS) D = 28.99 traces
10.	ePn A	06 08 18	<u>France</u> 45.97 N 1.46 W H = 06 05 55.9 h = 33 km D = 9.88 Az = 57 (NEIS) PnV A traces
	ePg A	09 08	
	eSg A	11 15	

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Day	Phase	h m s	Remarks
10.	eP A	08 53 43	<u>Crete</u> 35.40 N 23.38 E H = 08 49 42.5 h = 81.1 km MB = 4.3 D = 17.47 Az = 334 (NEIS) traces
10.	iPg A iSg A	10 56 09.5 56 25.5	<u>German Democratic Republic</u> 51.37 N 12.89 E Explosion, yield 9.5 t (CLL) D = 0.85
10.	eP diff B ePKIKP AB ePKHKP AB e(PKP2) A ePP B e B eSKSP B eSPP B eSPPP B LmH B LmV B	12 11 50 13 43 13 51 14 05 17 44 26 55 28 08 30 55 31 48 13 41.8 41.9	<u>South of Tonga Islands</u> 25.86 S 175.41 W H = 11 53 53.6 h = 33 km MB=6.6 MS=7.2 D = 154.67 Az = 350 (NEIS) PdiffV B 16s 0.5/um PKIKPV A 3.2 679.0nm PKHKPV A 3.1 2272.7nm PPV B 12 22.0/um M = 7.1 LmH B 17.5 40.6/um 7.2 LmV B 17 71.4/um 7.5
10.	ePKIKP A ePKHKP A ePKP2 A	13 28 30 28 39 28 55	<u>South of Tonga Islands</u> 25.98 S 175.49 W H = 13 08 40.7 h = 33 km MB = 5.4 D = 154.77 Az = 349 (NEIS)
10.	e A eSg A	15 07 33 07 50	<u>Poland</u> 50.4 N 19.0 E H = 15 05 20. h = 0 km D = 4.71 Az = 276 (ISC)
11.	eP A	05 15 10	<u>Andreanof Islands, Aleutian Is.</u> 51.14 N 176.84 W H = 05 03 11.6 h = 33 km MB = 4.7 D = 78.34 Az = 355 (NEIS) PV A 1.1s 12.1nm M = 4.8
11.	eP A	08 07 55	<u>Utah</u> 40.49 N 110.49 W H = 07 56 06.5 h = 6 km MB = 4.8 D = 76.08 Az = 34 (NEIS) PV A 1.4s 14.0nm M = 4.9

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Day	Phase	h m s	Remarks
11.	LmH B LmV B	15 07.7 14.5	<u>East China Sea</u> 29.52 N 128.33 E H = 14 21 10.4 h = 27 km MB = 5.0 (NEIS) D = 82.5 LmH B 18s 1.0/um M = 5.2 LmV B 15 0.8/um 5.3
11.	iPg A iSg A	19 09 06.8 09 17.5	<u>German Democratic Republic</u> 51.2 N 11.6 E H = 19 08 56 h = 33 km D = 0.55 Az = 177 (ISC)
11.	ePKIKP A	21 21 30	<u>West Chile Rise</u> 42.85 S 83.45 W H = 21 02 34.7 h = 33 km MB = 4.9 (NEIS) D = 124.3
12.	eP A	20 41 45	<u>Crete</u> 34.98 N 23.99 E H = 20 37 34.3 h = 33 km MB = 4.2 D = 18.06 Az = 334 (NEIS)
13.	ePKHKP A LmH B LmV B	00 59 34 02 14.7 15.4	<u>West of Macquarie Islands</u> 54.52 S 144.72 E H = 00 39 36.3 h = 33 km MB=5.3 MS=5.7 D = 151.66 Az = 282 (NEIS) LmH B 18s 0.7/um M = 5.5 LmV B 20 1.1/um 5.6
13.	ePKIKP A iPKHKP A	01 04 29 04 32	<u>Fiji Islands Region</u> 18.17 S 178.41 W H = 00 45 56 h = 595.8 km MB = 5.1 D = 146.62 Az = 348 (NEIS) PKHKPV A 1.4s 34.9nm
13.	eP A	07 09 24	<u>Nicobar Islands Region</u> 9.50 N 93.93 E H = 06 57 27.5 h = 33 km MB = 5.0 D = 77.85 Az = 320 (NEIS) PV A 1.4s 14.0nm M = 4.8
13.	eP A	08 02 44.5	<u>Nicobar Islands Region</u> 9.49 N 93.91 E H = 07 50 41.3 h = 33 km MB = 4.8 D = 77.85 Az = 320 (NEIS)

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Day	Phase	h m s	Remarks
13.	eP	A 11 42 58	<u>Burma - India Border Region</u>
	+ipP	A 43 14.5	23.48 N 93.35 E
	LmH	B 12 11.0	H = 11 32 09.3 h = 61 km MB = 5.2
	LmV	B 14.7	D = 67.07 Az = 317 (NEIS)
			h = 65 km PV A 1.1s 16.1nm M = 4.9 pPV A 2.0 119.7nm LmH B 20 0.8/um LmV B 17 0.9/um
13.	eP	A 20 46 50	<u>Tadzhik SSR</u> 37.30 N 72.06 E H = 20 38 52.1 h = 139.7 km MB = 4.6 D = 44.29 Az = 308 (NEIS)
13.	eP	A 21 30 54	<u>Nicobar Islands Region</u> 9.46 N 93.79 E H = 21 18 56.9 h = 33 km MB=5.1 MS=4.9 D = 77.80 Az = 320 (NEIS) PV A 1.5s 22.6nm M = 5.0
13.	LmH	B 24 12.3	<u>Off Coast of Peru</u> 12.25 S 77.96 W
	LmV	B 14.9	H = 23 16 27.2 h = 26 km MB = 5.2 MS = 4.5 (NEIS) D = 99.1
14.	+eiPKP	AB 05 15 09	<u>Tonga Islands</u> 15.72 S 173.05 W
	LmH	B 06 19.3	H = 04 55 34.8 h = 33 km MB=5.9 MS=5.7
	LmV	B 21.5	D = 144.96 Az = 355 (NEIS) PKPV A 1.4s 200.0nm PKPV B 7 1.6/um LmH B 20 1.3/um M = 5.6 LmV B 20 1.9/um 5.8
14.	ePKHKP	A 11 11 36	<u>Tonga Islands</u> 19.17 S 175.70 W H = 10 52 19.7 h = 250.3 km MB = 5.2 D = 148.06 Az = 351 (NEIS)
14.	ePKIKP	A 12 48 21	<u>New Hebrides Islands</u> 15.37 S 167.41 E
	e	A 48 28.5	H = 12 29 13.8 h = 125 km MB = 5.7 D = 139.76 Az = 336 (NEIS)

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Day	Phase	h m s	Remarks
14.	eP	A 14 15 30	<u>Turkey</u> 37.42 N 32.0 E H = 14 11 00.2 h = 33 km MB = 4.2 D = 19.65 Az = 319 (NEIS)
14.	LmH	B 20 11.0	<u>South Atlantic Ridge</u> 39.97 S 16.14 W
	LmV	B 11.0	H = 19 16 56.1 h = 33 km MB = 4.8 (NEIS) D = 93.3 LmV B 18s 0.45/um M = 5.0
14.	iPn	A 20 13 03.9	<u>Northern Italy</u> 46.24 N 12.90 E
	iPg	A 13 23	H = 20 11 58.1 h = 33 km
	iSn	A 13 54	D = 4.49 Az = 349 (NEIS)
	iSg	A 14 17	
15.	ePKHKP	A 21 17 28	<u>South of Fiji Islands</u> 22.37 S 178.24 W H = 20 58 15 h = 346.4 km MB = 4.5 D = 150.74 Az = 347 (NEIS)
16.	eiP	AB 02 11 30	<u>Kurile Islands</u> 47.05 N 153.91 E
	eS	B 21 20	H = 01 59 36.6 h = 33 km MB=5.6 MS=5.6
	eSS	B 26 25	D = 77.39 Az = 336 (NEIS)
	LmH	B 45.6	PV A 1.8s 338.0nm M = 6.1
	LmV	B 53.1	PV B 5 1.7/um 6.3 LmH B 17.5 6.0/um 6.0 LmV B 16 3.9/um 5.9
16.	+eP	A 03 19 15	<u>South Atlantic Ridge</u> 18.56 S 12.81 W
	LmV	B 49.7	H = 03 07 50.5 h = 21 km MB = 5.3
	LmH	B 50.0	D = 72.18 Az = 16 (NEIS) PV A 2.1s 105.0nm M = 5.5 LmH B 19 0.7/um 4.9 LmV B 18 0.8/um 5.1
16.	eP	A 04 36 38.5	<u>Southern Alaska</u> 59.88 N 152.55 W
	e	A 37 09	H = 04 25 40 h = 82.2 km MB = 4.6 D = 69.08 Az = 11 (NEIS)

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Day	Phase	h m s	Remarks
16.	eP A	10 57 07.5	<u>Kurile Islands</u> 47.40 N 153.55 E H = 10 45 17.6 h = 42 km MB = 4.7 D = 76.98 Az = 336 (NEIS) PV A 0.9s 19.5nm M = 5.1
16.	ePKP2 AB	13 34 37	<u>Kermadec Islands Region</u> 30.06 S 176.85 W H = 13 14 05 h = 19.8 km MB = 5.2 MS = 5.7 (NEIS) D = 158.2
	ePP B	38 12	
	eSS B	58 20	
	LmH B	15 02.6	
	LmV B	10.8	PKP2V A 1.6s 27.5nm PKP2V B 9 0.5/um LmH B 18 1.0/um M = 5.6 LmV B 18 1.3/um 5.8
16.	eP A	19 18 15	<u>Kurile Islands Region</u> 46.95 W 154.06 E H = 19 06 21.6 h = 45.1 km MB = 4.6 D = 77.53 Az = 337 (NEIS)
16.	eP A	19 23 02	<u>Kurile Islands</u> 47.08 N 153.93 E H = 19 11 08.9 h = 33 km MB = 5.1 D = 77.38 Az = 336 (NEIS) PV A 0.9s 31.2nm M = 5.3 LmH B 18 0.8/um 5.1 LmV B 16 0.4/um 4.9
	LmH B	57.2	
	LmV B	20 06.2	
16.	eP A	21 17 19	<u>Kurile Islands</u> 49.42 N 155.43 E H = 21 05 37.3 h = 40.7 km MB=4.9 MS=4.6 D = 75.62 Az = 337 (NEIS)
16.	ePKP A	21 27 47	<u>Sumbawa Islands Region</u> 9.73 S 117.12 E H = 21 09 17.7 h = 33 km MB=5.6 MS=5.8 D = 107.29 Az = 320 (NEIS) LmH B 25s 5.5/um M = 6.1 LmV B 20 2.4/um 5.8
	LmH E	22 10.1	
	LmV B	19.4	
17.	eP A	03 57 53	<u>Burma - China Border Region</u> 25.89 N 98.85 E H = 03 46 49.3 h = 33 km MB = 4.7 D = 68.74 Az = 317 (NEIS)

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Day	Phase	h m s	Remarks
17.	+ePKIKP AB	17 46 28.5	<u>North of New Zealand</u> 27.91 S 173.08 E H = 17 26 40.4 h = 33 km MB = 6.3 MS = 6.7 (NEIS) D = 153.3
	ePKHKP A	46 36.5	
	ePKP2 A	46 49	
	e B	49 24	
	ePPS B	03 00	PKIKPV A 1.8s 135.1nm
	eSS B	09 40	PKIKPV B 7 1.5/um
	LmH B	19 03.4	PKHKPV A 2.0 367.5nm
	LmV B	14.5	LmH B 19 12.4/um M = 6.7 LmV B 20 20.7/um 6.9
17.	ePKHKP A	19 32 29	<u>North of New Zealand</u> 27.91 S 173.65 E H = 19 12 20.2 h = 33 km MB = 5.1 (NEIS) D = 153.5
18.	LmH B	07 07.5	<u>West Irian Region</u> 2.01 N 132.66 E H = 06 07 21.8 h = 33 km MB = 5.1 MS = 4.3 (NEIS) D = 107.5 LmH B 16s 0.35/um M = 5.0
18.	eP A	07 15 29	<u>South of Alaska</u> 54.80 N 154.63 W H = 07 03 53.5 h = 33 km MB = 4.9 (NEIS) D = 74.3 PV A 1.1s 14.1nm M = 4.9
18.	eP A	20 34 14	<u>Kurile Islands Region</u> 46.92 N 154.28 E H = 20 22 20.2 h = 33 km MB = 5.1 (NEIS) D = 77.5 PV A 1.3s 39.3nm M = 5.3 LmH B 15 0.4/um 4.8
	LmH B	21 08.4	
	LmV B	15.5	
18.	eP A	21 23 49.5	<u>Kurile Islands</u> 46.99 N 154.01 E H = 21 11 55.1 h = 33 km MB = 4.8 (NEIS) D = 77.5 PV A 1.0s 11.8nm M = 4.9
	e A	24 34	
18.	ePKP A	23 43 14.5	<u>Fiji Islands Region</u> 18.04 S 178.41 W H = 23 24 39.2 h = 603.4 km MB=5.3 (NEIS) D = 146.5 PKPV A 2.0s 85.5nm

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Day	Phase	h m s	Remarks
19.	eP	A 02 26 38.5	<u>Central Alaska</u> 62.88 N 150.56 W H = 02 16 02.6 h = 101.5 km MB=5.0 (NEIS) D = 66.0 PV A 1.6s 27.5nm M = 4.9
19.	ePKHKP	A 02 41 28.5	<u>Tonga Islands</u> 20.75 S 173.96 W H = 02 21 40.4 h = 33 km MB = 5.3 MS = 5.5 (NEIS) D = 149.8 PKHKPV A 1.6s 44.0nm LmH B 17 0.6/um M = 5.4 LmV B 17 0.7/um 5.5
19.	eP	AB 06 42 42	<u>Southern Iran</u> 27.79 N 54.88 E H = 06 35 10.9 h = 33 km MB=5.6 MS=5.2 D = 39.79 Az = 317 (NEIS) PV A 1.3s 26.2nm M = 4.8 LmH B 16 3.7/um 5.3 LmV B 17 4.2/um 5.3
19.	ePKHKP	A 08 01 38	<u>Tonga Islands</u> 18.14 S 175.24 W H = 07 42 24.5 h = 259.5 km MB = 5.1 D = 147.11 Az = 352 (NEIS) PKHKPV A 1.2s 42.7nm
19.	eP	A 11 48 32	<u>Kurile Islands Region</u> 46.96 N 154.33 E H = 11 36 37.8 h = 42 km MB=4.9 MS=3.9 D = 77.84 Az = 337 (NEIS) PV A 1.0s 11.8nm M = 4.9
19.	eP	A 17 38 55	<u>Southern Sinkiang Province, China</u> 39.16 N 91.04 E H = 17 29 24.8 h = 33 km MB=5.1 MS=4.0 D = 54.84 Az = 310 (NEIS) PV A 1.2s 18.3nm M = 5.0 LmH B 16 0.6/um 4.7 LmV B 12 0.8/um 5.1

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Day	Phase	h m s	Remarks
19.	eP	A 21 32 22	<u>Kurile Islands</u> 49.35 N 155.63 E H = 21 20 41.6 h = 61.5 km MB = 5.3 D = 75.73 Az = 337 (NEIS) PV A 1.6s 32.9nm M = 5.0 LmH B 18 0.7/um 5.0 LmV B 24 0.45/um 4.7
19.	-iP	A 22 51 51	<u>Taiwan Region</u> 22.61 N 121.61 E H = 22 39 34.1 h = 158 km MB = 5.5 D = 84.63 Az = 323 (NEIS) PV A 1.2s 69.1nm M = 5.3 LmH B 14 0.45/um LmV B 14 0.6/um
20.	eP	AB 05 51 57	<u>Kurile Islands</u> 47.15 N 154.09 E H = 05 40 05.7 h = 44 km MB=5.4 MS=5.4 D = 77.35 Az = 337 (NEIS) PV A 1.5s 121.0nm M = 5.7 PV B 8 1.2/um 5.9 LmH B 17 4.7/um 5.9 LmV B 17 2.9/um 5.7
20.	eP	A 06 17 16	<u>Kurile Islands</u> 47.16 N 154.09 E H = 06 05 22.1 h = 33 km MB = 5.0 D = 77.34 Az = 337 (NEIS) PV A 1.1s 20.2nm M = 5.1
20.	eP	A 08 09 02	<u>Kurile Islands</u> 47.24 N 153.95 E H = 07 57 10.1 h = 37.1 km MB = 5.2 D = 77.24 Az = 336 (NEIS) PV A 1.3s 41.5nm M = 5.3
20.	eP	A 08 29 22	<u>Komandorsky Islands Region</u> 56.43 N 164.13 E H = 08 18 07 h = 40 km MB=5.2 MS=4.9 D = 70.89 Az = 342 (NEIS) h = 42 km PV A 1.6s 49.5nm M = 5.3 LmH B 16 1.7/um 5.4 LmV B 15 0.9/um 5.2

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Day	Phase	h m s	Remarks
20.	eP A	11 26 13	<u>Kurile Islands</u> 47.31 N 153.89 E H = 11 14 20.8 h = 39 km MB = 4.9 D = 77.15 Az = 336 (NEIS) PV A 1.3s 26.2nm M = 5.1
20.	e A LmH B LmV B	11 54 06 12 36.3 51.7	<u>Sumbawa Islands Region</u> 9.78 S 117.10 E H = 11 35 23.5 h = 33 km MB=5.3 MS=5.3 D = 107.31 Az = 320 (NEIS) LmH B 22s 0.7/um M = 5.2 LmV B 18 0.7/um 5.3
20.	eP A	12 38 28	<u>Kurile Islands</u> 47.33 N 154.03 E H = 12 26 35.7 h = 33 km MB = 4.6 D = 77.17 Az = 337 (NEIS)
20.	eP A	12 57 40	<u>Kurile Islands</u> 47.38 N 153.92 E H = 12 45 48.3 h = 35.7 km MB = 4.8 D = 77.10 Az = 336 (NEIS)
20.	LmV B	23 03.0	<u>Near N. Coast of West Irian</u> 2.89 S 139.04 E H = 21 51 03.4 h = 37 km MB = 5.3 (NEIS) D = 115.2
21.	eP A	00 57 55	<u>Kurile Islands</u> 47.15 N 153.98 E H = 00 46 02 h = 33 km MB = 4.8 D = 77.32 Az = 337 (NEIS) PV A 1.0s 15.8nm M = 5.0
21.	LmH B LmV B	01 54.0 54.0	<u>Kyushu, Japan</u> 30.94 N 131.51 E H = 01 00 30.1 h = 68.4 km MB = 5.0 D = 83.01 Az = 326 (NEIS) LmH B 18s 0.2/um LmV B 18 0.3/um
21.	iPg A iSg A	08 19 27.3 19 47.5	<u>Czechoslovakia</u> 50.60 N 13.86 E Explosion H = 08 19.0 (KHC) D = 1.43 Az = 273

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Day	Phase	h m s	Remarks
21.	ePg A eSg A	15 00 30 00 55	<u>Czechoslovakia</u> 50.54 N 14.65 E Explosion yield 11 t H = 15 00.0 (KHC) D = 1.94 Az = 274
21.	eP A	19 21 36	<u>Fox Islands, Aleutian Is.</u> 52.35 N 171.44 W H = 19 09 47.2 h = 67.3 km MB = 5.3 D = 77.35 Az = 358 (NEIS)
21.	ePKP2 A	22 34 12	<u>North of New Zealand</u> 27.72 S 173.76 E H = 22 14 00 h = 33 km MB = 5.3 D = 153.38 Az = 334 (NEIS)
22.	eP A epP A	01 35 30 36 07	<u>Northern Colombia</u> 7.14 N 72.92 W H = 01 23 27 h = 168.8 MB = 5.3 D = 81.06 Az = 40 (NEIS) h = 151 km PV A 2.1s 38.3nm M = 4.8 pPV A 2.0 42.7nm
22.	eP AB e A eS A LmH B LmV B	10 06 17 06 30 09 40 13.7 15.0	<u>Crete</u> 34.95 N 23.16 E H = 10 02 09.1 h = 33 km MB=5.0 MS=4.3 D = 17.79 Az = 335 (NEIS) PV A 1.2s 32.6nm M = 4.3 LmH B 16.5 2.7/um 4.6 LmV B 17 3.3/um 4.8
22.	eP A	12 11 04	<u>Near East Coast of Honshu, Japan</u> 36.72 N 141.33 E H = 11 58 45.7 h = 44 km MB = 4.9 D = 82.40 Az = 330 (NEIS)
22.	-eP AB -epP A ipP B esP B -ePP B epPP AB	18 10 08.5 12 24 12 28 13 28 14 26 16 25	<u>Santiago Del Estero Prov., Argentina</u> 27.95 S 62.97 W H = 17 57 17.4 h = 614 km MB = 6.1 D = 102.12 Az = 39 (NEIS) h = 633 km PV A 2.2s 98.2nm M = 6.0

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Day	Phase	h m s	Remarks
cont. 22.	1SKS B	18 19 52	PPV A 2.1s 4118.8nm M = 7.4
	1S B	21 04	SH B 11 3.3/um 6.3
	eSP B	22 34	PKKPV A 2.4 151.9nm
	ePS B	23 59	LmH B 16 1.8/um
	esS B	24 56	LmV B 17 2.1/um
	ePKKP A	26 33	
	LmH B	57.3	
	LmV B	59.0	
22.	ePKP A	21 17 07.5	<u>Fiji Islands Region</u> 15.60 S 176.96 W H = 20 58 15.9 h = 391.6 km MB = 4.5 D = 144.37 Az = 351 (NEIS) PKPV A 1.2s 20.3nm
22.	ePKHKP A	23 53 09	<u>South of Fiji Islands</u> 22.03 S 179.13 W H = 23 34 14.4 h = 509.6 km MB = 4.7 D = 150.22 Az = 346 (NEIS) traces
23.	ePKHKP A	03 04 46.5	<u>Fiji Islands Region</u> 21.68 S 179.40 W H = 02 46 02.2 h = 591.7 km MB = 5.0 D = 149.83 Az = 346 (NEIS) pPKPV A traces
	ePKP2 A	04 53.5	
	epPKP A	07 13	
23.	ePKIKP AB	10 51 24	<u>Loyalty Islands Region</u> 21.49 S 170.30 E H = 10 31 53.1 h = 89 km MB = 5.6 D = 146.43 Az = 335 (NEIS) PKHKPV A 1.3s 227.0nm LmV B 29 0.9/um
	iPKHKP A	51 25	
	ipPKP AB	51 47.5	
	LmV B	11 50.0	
23.	LmH B	19 42.0	<u>North Atlantic Ridge</u> 52.72 N 31.08 W H = 19 26 25.4 h = 33 km MB=4.5 MS=4.2 D = 26.27 Az = 77 (NEIS) LmH B 15s 0.6/um M = 4.3 LmV B 15 0.35/um 4.2
	LmV B	42.0	
24.	ePKP2 A	00 40 37	<u>Kermadec Islands</u> 30.50 S 177.82 W H = 00 20 05.7 h = 18.6 km MB = 5.4 D = 158.8 (NEIS)

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Day	Phase	h m s	Remarks
24.	e(P) A	05 42 55	<u>Crete</u> 34.47 N 26.83 E H = 05 38 18.5 h = 33 km MB = 4.4 D = 19.61 Az = 330 (NEIS)
24.	eP A	06 04 04.5	<u>North Atlantic Ridge</u> 52.18 N 31.56 W H = 05 58 27.8 h = 33 km MB=4.9 MS=5.0 D = 26.68 Az = 76 (NEIS) PV A 1.4s 25.6nm M = 4.6 LmH B 16 2.9/um 4.9 LmV B 14 2.5/um 5.1
	LmH B	13.1	
	LmV B	14.6	
24.	eP A	07 20 51	<u>Alaska Peninsula</u> 56.53 N 161.72 W H = 07 09 41.2 h = 198.3 km MB = 4.7 D = 73.05 Az = 4 (NEIS) h = 202 km PV A 1.3s 19.7nm M = 4.7 pPV A 1.3 26.2nm
	epP A	21 39	
24.	eP A	18 46 26	<u>Kurile Islands</u> 47.19 N 154.12 E H = 18 34 32.3 h = 30.6 km MB = 5.0 D = 77.33 Az = 337 (NEIS) PV A 1.1s 18.1nm M = 5.0
24.	LmH B	20 29.8	<u>Balleny Islands Region</u> 63.49 S 172.19 E H = 18 43 42.5 h = 33 km MB = 5.1 MS = 5.2 (NEIS) D = 163.6 LmH B 18s 0.5/um M = 5.3 LmV B 18 0.6/um 5.5
	LmV B	30.5	
25.	eP A	18 09 02.5	<u>Southern Sinkiang Province, China</u> 40.82 N 79.15 E H = 18 00 35.1 h = 29.1 km MB = 4.7 D = 46.63 Az = 306 (NEIS)
25.	epP A	22 07 29	<u>Near East Coast of Honshu, Japan</u> 36.26 N 141.40 E H = 21 55 08 h = 41 km MB = 5.1 D = 82.83 Az = 330 (NEIS)

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Day	Phase	h m s	Remarks
26.	e LmV	A 02 40 21 B 03 57.5	<u>Fiji Islands Region</u> 15.57 S 177.29 W H = 02 20 35.1 h = 33 km MB=4.8 MS=5.5 D = 144.28 Az = 350 (NEIS)
26.	ePKP LmH LmV	A 11 39 51 B 12 56.4 B 57.2	<u>Fiji Islands Region</u> 15.55 S 177.40 W H = 11 20 16.1 h = 41 km MB=5.0 MS=5.7 D = 144.24 Az = 350 (NEIS) LmH B 18s 0.8/um M = 5.5 LmV B 17 0.7/um 5.5
26.	eP LmH LmV	A 15 22 54.5 B 16 05.8 B 08.2	<u>Rat Islands, Aleutian Is.</u> 51.15 N 178.33 E H = 15 10 58.8 h = 33 km MB=5.6 MS=5.2 D = 77.96 Az = 351 (NEIS) PV A 1.4s 88.4nm M = 5.6 LmH B 15 0.9/um 5.2 LmV B 16 1.1/um 5.3
26.	eP	A 17 09 42	<u>Iran</u> 31.55 N 51.17 E H = 17 02 51.2 h = 47.9 km MB = 4.7 D = 34.86 Az = 315 (NEIS)
27.	eP	A 00 29 19	<u>Southern Iran</u> 29.74 N 50.69 E H = 00 22 22.3 h = 34.2 km MB = 4.8 D = 35.86 Az = 317 (NEIS)
27.	eP eX eS LmH LmV	A 07 03 47.5 A 03 56 B 07 35 B 11.0 B 13.5	<u>Dodecanese Islands</u> 35.46 N 27.61 E H = 06 59 27.3 h = 51.9 km MB=4.9 MS=4.8 D = 19.09 Az = 328 (NEIS) PV A 1.4s 102.2nm M = 4.9 XV A 1.5 206.0nm LmH B 13.5 3.9/um 4.9 LmV B 16 3.2/um 4.9
27.	ePKHKP epPKP	A 11 48 04 A 50 12	<u>South of Fiji Islands</u> 23.59 S 179.92 W H = 11 29 09.8 h = 531.5 km MB = 5.0 D = 151.54 Az = 345 (NEIS) PKHKPV A 1.5s 22.6nm pPKPV A 1.5 27.6nm

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Day	Phase	h m s	Remarks
27.	ePKP	A 12 25 55	<u>Fiji Islands Region</u> 16.38 S 177.52 W H = 12 06 19.2 h = 33 km MB = 5.1 D = 145.04 Az = 350 (NEIS)
27.	ePKHKP	A 12 51 11	<u>South Pacific Cordillera</u> 55.31 S 128.97 W H = 12 31 11.8 h = 33 km MB=5.1 MS=5.4 D = 156.05 Az = 85 (NEIS)
27.	eP	A 13 27 11	<u>Dodecanese Islands</u> 35.25 N 27.79 E H = 13 22 41.5 h = 33 km D = 19.34 Az = 328
27.	ePKHKP	A 18 12 56	<u>Fiji Islands Region</u> 20.91 S 179.16 W H = 17 54 15.9 h = 622.5 km MB = 4.8 D = 149.13 Az = 347 (NEIS)
27.	eP eS LmH LmV	AB 22 47 35 B 50 57 B 53.7 B 55.1	<u>Turkey</u> 37.96 N 27.88 E H = 22 43 32.5 h = 24.3 km MB=4.7 MS=4.7 D = 17.17 Az = 323 (NEIS) PV A 1.8s 87.9nm M = 4.6 PV B 11 1.8/um 5.1 SH B 9 2.5/um 6.1 LmH B 13 5.8/um 5.0 LmV B 12 3.7/um 5.0
28.	eP	A 00 45 15	<u>Turkey</u> 37.99 N 27.95 E H = 00 41 11.7 h = 11.8 km MB = 4.0 D = 17.17 Az = 323 (NEIS)
28.	eP	A 13 29 33	<u>Taiwan Region</u> 32.43 N 121.45 E H = 13 16 58.3 h = 25.2 km MB = 5.1 D = 84.68 Az = 323 (NEIS)
28.	ePKHKP ePKP2	A 23 33 31 A 33 41	<u>South of Fiji Islands</u> 23.68 S 179.80 W H = 23 14 33.6 h = 501.9 km MB = 4.8 D = 151.66 Az = 345 (NEIS)

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Day	Phase	h m s	Remarks
29.	ePn	A 02 50 43	<u>Yugoslavia</u> 46.13 N 14.71 E
	eSg	A 52 02	H = 02 49 24.4 h = 10 km D = 4.96 Az = 337 (NEIS)
29.	+iP	A 03 14 46.5	<u>Eastern Kazakh SSR</u> 49.84 N 78.17 E
	ePn	A 16 19.5	H = 03 06 57.7 h = 0 km MB = 5.5 D = 41.26 Az = 298 (NEIS) Underground explosion M = 5.6 (UPP) PV A 0.8s 107.8nm M = 5.6
29.	+iP	A 03 14 54.5	<u>Eastern Kazakh SSR</u> 50.06 N 78.91 E
	ePn	A 16 32	H = 03 07 02.9 h = 0 km MB = 5.6 D = 41.58 Az = 298 (NEIS) Underground explosion M = 6.6 (UPP) PV A 1.1s 125.0nm M = 5.6
29.	ePKIKP	A 10 34 17.5	<u>New Hebrides Islands</u> 14.43 S 167.26 E H = 10 15 12.1 h = 183.9 km MB = 5.1 D = 138.84 Az = 336 (NEIS)
29.	eP	A 10 45 45	<u>Kurile Islands</u> 47.14 N 153.16 E H = 10 33 56.7 h = 59 km MB = 4.5 D = 77.11 Az = 336 (NEIS)
29.	ePKHKP	A 17 35 40	<u>Fiji Islands Region</u> 20.72 S 178.03 W H = 17 16 52.2 h = 538.1 km MB = 4.8 D = 149.18 Az = 348 (NEIS)
29.	ePKIKP	A 20 34 32	<u>East Papua New Guinea Region</u>
	epPKP	A 34 59	6.22 S 146.64 E
	eSS	B 53 30	H = 20 15 45.1 h = 106 km MB = 5.9 D = 122.05 Az = 328 (NEIS)
	LmH	B 21 19.0	LmH B 18s 2.1 μ m
	LmV	B 24.9	LmV B 20 1.3 μ m
30.	eSn	A 00 37 28.5	<u>Albania</u> 41.86 N 20.20 E H = 00 32 59.6 h = 10 km (CSEM) D = 10.63

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Day	Phase	h m s	Remarks
30.	ePKHKP	A 01 23 51	<u>Fiji Islands Region</u> 20.68 S 178.43 W
	ePKP2	A 23 57.5	H = 01 05 06.2 h = 567 km MB = 5.1 D = 149.07 Az = 348 (NEIS)
30.	ePKP	A 02 09 31	<u>South of Sumbawa Islands</u>
	e	A 09 51	10.21 S 118.73 E
	LmH	B 03 02.0	H = 01 50 59.1 h = 33 km MB = 5.7 MS = 5.3
	LmV	B 04.1	D = 108.68 Az = 320 (NEIS) PKPV A traces LmV B 18s 1.2 μ m M = 5.5
30.	ePKIKP	A 06 44 07	<u>Fiji Islands Region</u> 20.42 S 178.57 W
	iPKHKP	A 44 11.5	H = 06 25 30 h = 600 km MB = 5.6
	iPKP2	A 44 17.5	D = 148.78 Az = 347 (NEIS)
	epPKP	A 46 29	PKHKPV A 0.9s 105.0nm PKP2V A 1.5 105.5nm
30.	ePKIKP	A 13 12 40	<u>New Hebrides Islands</u> 14.87 S 166.95 E
	epPKIKP	A 13 07	H = 12 53 22.8 h = 102.8 km MB = 5.6
	eSKP	A 16 05	D = 139.12 Az = 336 (NEIS)
	LmV	B 14 06.5	h = 95 km SKPV A 3.5s 375.0nm LmV B 20 0.7 μ m
30.	ePKP2	A 16 46 13.5	<u>Kermadec Islands Region</u> 27.19 S 176.72 W H = 16 25 58 h = 47.4 km MB = 5.2 D = 155.73 Az = 347 (NEIS)
30.	ePKP	A 22 01 22	<u>Fiji Islands Region</u> 16.34 S 176.05 W H = 21 42 24.9 h = 356.1 km MB = 4.6 D = 145.22 Az = 351 (NEIS)
30.	ePKP2	A 22 47 24	<u>Kermadec Islands Region</u>
	LmV	B 24 06.8	27.39 S 176.40 W H = 22 27 01.9 h = 57 km ME = 5.3 MS = 4.7 (NEIS) D = 155.9

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Day	Phase	h m s	Remarks
31.	eP A	09 51 52	<u>Near East Coast of Kamchatka</u> 55.96 N 162.79 E H = 09 40 38.5 h = 65.5 km MB = 4.3 (NEIS) D = 71.1 PV A 1.0s 13.8nm M = 4.8
31.	ePKHKP A	13 27 05.5	<u>Tonga Islands</u> 20.68 S 174.82 W H = 13 07 27.8 h = 85.9 km MB = 4.8 D = 149.67 Az = 352 (NEIS) PKHKPV A 1.8s 67.6nm

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Day	Phase	h m s	Remarks
1.	eP A	04 04 49	<u>Eastern USSR</u> 55.44 N 130.55 E H = 03 54 26 h = 33 km MB = 4.5 D = 62.73 Az = 321 (NEIS)
1.	ePKIKP A	08 45 16	<u>Tonga Islands Region</u> 22.83 S 174.65 W H = 08 25 22.1 h = 33 km MB=4.9 MS=5.0 D = 151.80 Az = 352 (NEIS) PKIKPV A 1.8s 33.8nm
2.	ePKP A	01 39 07	<u>Tonga Islands</u> 15.39 S 173.32 W H = 01 19 27.9 h = 30.1 km MB=5.3 MS=4.8 D = 144.61 Az = 355 (NEIS)
2.	eP A	06 42 17	<u>Off East Coast of Kamchatka</u> 51.91 N 160.13 E H = 06 30 40.3 h = 33 km MB = 4.9 (NEIS) D = 74.5
2.	ePKP A LmH B LmV B	11 08 34 12 09.4 09.6	<u>Easter Island Cordillera</u> 49.74 S 116.30 W H = 10 48 51.0 h = 33 km MB = 5.0 MS = 5.4 (NEIS) D = 147.2 LmH B 18s 0.7 μ m M = 5.4 LmV B 18 0.7 μ m 4.7
2.	iPn A ePg A iSn A iSg A	14 43 27 43 42 44 00 44 16	<u>Federal Republic of Germany</u> 50.92 N 6.69 E H = 14 42 38.8 h = 25 km D = 3.14 Az = 93 (ISC)
2.	ePKP A	23 55 40	<u>Fiji Islands Region</u> 17.29 S 179.22 W H = 23 37 03.3 h = 555.1 km MB = 5.1 (NEIS) D = 145.7 PKPV A 1.7s 48.5nm
3.	eP AB eS B LmH B	02 25 52.5 28 20 29.9	<u>Bulgaria</u> 42.12 N 24.03 E H = 02 22 56.0 h = 11 km MB = 5.2 D = 12.07 Az = 319 (ISC)

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Day	Phase	h m s	Remarks
cont. 3.	LmV	B 02 31.0	PV A 1.6s 54.9nm M = 5.4 LmH B 13.5 29.1/um 5.4 LmV B 9 off scale
3.	ePn eSn	A 09 07 21 A 09 23	<u>Yugoslavia</u> 42.78 N 20.74 E H = 09 05 15.5 h = 10 km (CSEM) D = 10.05
3.	e	A 12 22 05	<u>Western Poland</u> (CLL)
3.	eP	A 12 39 58	<u>Kurile Islands</u> 44.40 N 149.35 E H = 12 28 00.7 h = 44 km MB = 4.6 (NEIS) D = 78.4
4.	LmH LmV	B 04 51.5 B 51.6	LmH B 16s 0.4/um LmV B 16 0.5/um
4.	eP Pm ePP ePPP eS eFS eiSS eSSSS eP'P' LmH LmV	AB 10 04 51 AB 05 25 B 07 32 B 09 45 B 14 25 B 15 25 B 20 00 B 25 40 A 32 09 B 45.1 B 45.2	<u>Andreanof Islands, Aleutian Is.</u> 51.66 N 175.95 W H = 09 52 55.7 h = 33 km MB = 5.7 MS = 6.7 (NEIS) D = 78.0 PmV A 2.0s 128.2nm M = 5.6 PmV B 20 5.8/um 6.3 LmH B 19 16.2/um 6.4 LmV B 20 15.4/um 6.4
4.	eP	A 10 14 00.5	<u>Andreanof Islands</u> 51.62 N 175.61 W H = 10 02 06.1 h = 52 km MB = 5.3 D = 77.93 Az = 355 (ISC)
4.	e(P)	A 13 02 31	<u>Near Coast of Guatemala</u> 13.86 N 90.59 W H = 12 49 47.5 h = 103.9 km MB = 5.0 (NEIS) D = 87.0
4.	iPg iSg	A 13 04 33 A 04 53	D c. 1.6

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Day	Phase	h m s	Remarks
4.	eP e ePS eSS LmH LmV	AB 18 19 28 A 19 45 B 30 15 B 34 50 B 59.7 B 19 04.2	<u>Andreanof Islands, Aleutian Is.</u> 51.43 N 175.56 W H = 18 07 31.3 h = 33 km MB = 5.4 MS = 5.4 (NEIS) D = 78.2 PV A 1.0s 27.6nm M = 5.2 LmH B 18 1.4/um 5.4 LmV B 16 1.4/um 5.4
5.	ePP LmH LmV	A 06 24 26 B 07 21.0 B 21.3	<u>Solomon Islands</u> 10.11 S 161.00 E H = 06 02 57.6 h = 70 km MB = 5.6 (NEIS) D = 132.4 LmH B 24s 0.7/um LmV B 24 0.9/um
5.	eP ePP eS e ePS eSS LmH LmV	AB 14 56 00 A 58 56 B 15 05 45 B 06 22 B 06 38 B 11 25 B 29.8 B 36.5	<u>Andreanof Islands, Aleutian Is.</u> 51.54 N 175.55 W H = 14 44 03.3 h = 33 km MB = 5.3 MS = 5.6 (NEIS) D = 78.1 PV A 1.0s 39.4nm M = 5.4 LmH B 20 2.1/um 5.5 LmV B 19 1.9/um 5.5
5.	ePg eSg	A 22 56 15 A 56 46	
6.	ePn ePg iSg	A 01 23 39.5 A 23 51 A 24 26	<u>Federal Republic of Germany</u> 50.93 N 6.71 E H = 01 22 51.3 h = 27 km D = 3.13 Az = 93 (ISC)
6.	eP	A 02 50 58	<u>Near East Coast of Kamchatka</u> 53.55 N 159.81 E H = 02 39 35.4 h = 67.2 km MB = 5.2 D = 72.78 Az = 339 (NEIS)

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Day	Phase	h m s	Remarks
6.	LmH B	02 55.8	<u>Bulgaria</u> 42.13 N 24.17 E H = 02 48 45.6 h = 23 km MB = 4.6 (ISC) D = 12.2 LmH B 13.5s 0.7 μ m M = 4.0 LmV B 12 0.5 μ m
	LmV B	56.8	
6.	eP A	07 46 21	<u>Andreanof Islands, Aleutian Is.</u> 51.26 N 179.81 W H = 07 34 25.4 h = 33 km MB = 5.0 (NEIS) D = 78.0 PV A 1.1s 20.2nm M = 5.1
	e A	46 29	
6.	eP A	17 14 27	<u>Romania</u> 45.45 N 26.44 E H = 17 11 51.8 h = 113 km (CSEM) D = 10.6
7.	ePn A	00 23 52.5	<u>Upper Swabia Fed. Rep. of Germany</u> 48.02 N 9.27 E H = 00 23 07.2 (CSEM) D = 3.02
	i A	23 56	
	ePb A	24 00	
	iPg A	24 03	
	iSn A	24 27	
	iSg A	24 41	
7.	eP A	08 31 28	<u>Kurile Islands</u> 46.39 N 153.24 E H = 08 19 31.1 h = 33 km MB=4.9 MS=4.3 D = 77.81 Az = 336 (NEIS) PV A 2.0s 51.3nm M = 5.2
7.	eP A	08 38 02	<u>Mariana Islands</u> 15.28 N 144.98 E H = 08 24 32.5 h = 256.1 km MB = 5.4 D = 102.71 Az = 332 (NEIS) LmH B 16s 0.5 μ m M = 4.9 LmV B 18 0.8 μ m 5.1
	LmH B	09 07.5	
	LmV B	08.8	
7.	ePKP A	13 41 13	<u>Tonga Islands</u> 16.26 S 174.75 W H = 13 21 36.7 h = 33 km MB = 4.8 D = 145.32 Az = 353 (NEIS) PKPV A 2.2s 43.6nm

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Day	Phase	h m s	Remarks
7.	ePKIKP A	23 16 13.5	<u>Solomon Islands</u> 7.15 S 156.09 E H = 22 57 15.8 h = 75.2 km MB = 5.7 D = 127.56 Az = 332 (NEIS)
8.	e(P) A	04 00 43.5	<u>Luzon, Philippine Islands</u> 12.23 N 123.91 E H = 03 47 20.3 h = 33 km MB=5.2 MS=5.3 D = 94.23 Az = 324 (NEIS) LmH B 24.5s 4.6 μ m M = 5.9 LmV B 18 2.5 μ m 5.7
	LmH B	38.4	
	LmV B	44.2	
8.	ePKHKP A	11 57 39	<u>Tonga Islands Region</u> 18.71 S 172.81 W H = 11 37 55.4 h = 33 km MB = 5.1 D = 147.94 Az = 355 (NEIS)
	ePKP2 A	57 43	
8.	+iP A	15 11 02	<u>Kurile Islands</u> 47.39 N 154.31 E H = 14 59 10.4 h = 33 km MB=5.5 MS=4.6 D = 77.19 Az = 337 (NEIS) PV A 1.4s 121.0nm M = 5.7 LmH B 14 1.9 μ m 5.6 LmV B 15 1.3 μ m 5.4
	LmH B	51.5	
	LmV B	51.5	
8.	eP A	21 48 35	<u>Mediterranean Sea</u> 34.76 N 15.61 E H = 21 44 47.7 h = 33 km MB = 4.4 D = 16.14 Az = 351 (NEIS)
9.	eP A	08 25 36	<u>Kurile Islands</u> 47.51 N 154.30 E H = 08 13 43.5 h = 25.5 km MB = 4.5 D = 77.08 Az = 337 (NEIS)
9.	eS A	14 20 12	<u>Norwegian Sea</u> 63.17 N 1.9 E H = 14 14 42.3 h = 10 km (ISC) D = 13.61
9.	ePKP A	16 10 31	<u>New Hebrides Islands</u> 20.54 S 169.65 E H = 15 51 08 h = 124 km MB = 4.9 D = 145.32 Az = 335 (NEIS) h = 110.6
	epPKP A	11 01	

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Day	Phase	h m s	Remarks
9.	eP	A 21 26 23.5	<u>Kurile Islands</u> 47.53 N 154.34 E H = 21 14 32 h = 33 km MB = 5.1 D = 77.07 Az = 337 (NEIS) PV A 1.3s 37.1nm M = 5.3
9.	+iP ePP	A 22 12 18 A 15 15	<u>Southern Nevada</u> 37.07 N 116.05 W H = 22 00 00 h = 0 km MB=5.7 MS=4.0 D = 81.27 Az = 31 (NEIS) Nuclear explosion SANDREEF at the Nevada Test Site (ERDA) PV A 1.3s 87.4nm M = 5.6
10.	eP	A 04 16 30.5	<u>Turkey</u> 37.99 N 27.71 E H = 04 12 26.3 h = 33 km MB = 4.0 D = 17.05 Az = 323 (NEIS)
10.	ePKIKP ePKP2 LmH LmV	A 09 19 18 A 19 42.5 C 10 09.3 C 15.5	<u>South of Fiji Islands</u> 25.99 S 179.93 W H = 09 00 21.7 h = 476.5 km MB = 5.1 D = 153.83 Az = 343 (NEIS)
10.	eP	A 23 18 19	<u>Dodecanese Islands</u> 35.81 N 27.40 E H = 23 13 57.2 h = 33 km MB = 4.1 D = 18.70 Az = 327 (NEIS)
11.	ePg eSg	A 09 29 31.5 A 29 51.5	<u>Czechoslovakia</u> 50.41 N 13.84 E H = 09 29 04.4 h = 0 km D = 1.44 Az = 280 (ISC) Explosion of 4.4 t (KHC)
11.	eP LmH LmV	A 22 13 12 B 23 09.8 B 10.4	<u>New Guinea</u> 6.80 S 143.69 E H = 21 54 20.8 h = 33 km MB = 5.4 D = 120.95 Az = 327 (ISC) PV A traces LmH B 20s 0.7/um M = 5.3 LmV B 19 1.0/um 5.5

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Day	Phase	h m s	Remarks
12.	eP	A 02 35 33	<u>Fox Islands, Aleutian Is.</u> 53.63 N 170.24 W H = 02 23 47.6 h = 33 km MB = 4.2 D = 76.08 Az = 359 (NEIS) traces
12.	eP e	A 03 28 40 A 29 27	<u>Kurile Islands</u> 43.98 N 148.27 E H = 03 16 38.5 h = 18.1 km MB = 5.0 D = 78.50 Az = 334 (NEIS) PV A 1.2s 28.5nm M = 5.2
12.	ePKIKP iPKHKP iPKP2	A 19 23 34.5 A 23 39 A 23 45	<u>Fiji Islands Region</u> 20.49 S 177.77 W H = 19 04 48.0 h = 507.1 km MB = 5.0 D = 149.00 Az = 348 (NEIS) PKHKPV A 1.8s 169.0nm PKP2V A 1.8 94.5nm
13.	e(Pg) eSg	A 07 08 32.5 A 09 13	<u>Poland</u> (CIL)
13.	ePg eSn eSg	A 15 48 09 A 48 36.5 A 48 41	<u>Federal Republic of Germany</u> 49.5 N 8.9 E H = 15 47 34 h = 0 km D = 2.06 Az = 56 (ISC)
13.	e(P) eSKS ePS eSS LmH LmV	A 21 25 38 C 35 55 C 37 00 C 41 50 B 22 10.2 B 10.8	<u>Philippine Islands Region</u> 19.20 N 121.20 E H = 21 12 46.3 h = 33 km MB=5.2 MS=5.2 D = 87.11 Az = 323 (NEIS) LmH B 16s 2.2/um M = 5.6 LmV B 16 2.1/um 5.7
14.	eP	A 19 40 50	<u>Fox Islands, Aleutian Is.</u> 52.48 N 170.69 W H = 19 29 1.8 h = 68.6 km MB = 4.9 D = 77.23 Az = 358 (NEIS) PV A 1.4s 14.0nm M = 4.7

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Day	Phase	h m s	Remarks
15.	eP	A 05 08 50	<u>Alaska Peninsula</u> 54.95 N 160.03 W H = 04 57 14.0 h = 39.2 km MB = 5.1 D = 74.55 Az = 6 (NEIS)
15.	ePg eSg	A 06 43 34 A 43 55	<u>Czechoslovakia</u> 50.48 N 14.02 E H = 06 43 04.7 h = 0 km D = 1.53 Az = 273 (ISC)
15.	ePg	A 12 53 05	<u>Czechoslovakia</u> 50.25 N 12.66 E H = 12 52 48.2 h = 0 km D = 0.78 Az = 301 (ISC) Explosion of 3.3 t (KHC)
16.	eP	A 15 10 52	<u>Japan</u> 36.06 N 140.41 E H = 14 58 38.6 h = 106 km MB=5.1 (NEIS) D = 82.6
16.	eP epP LmH	A 19 48 08 A 48 27.5 C 20 23.0	<u>Hokkaido, Japan Region</u> 41.91 N 142.28 E H = 19 36 14.2 h = 68.5 km MB = 5.1 D = 78.26 Az = 330 (NEIS) h = 74.3 km LmH C 25s 0.45/um
17.	ePg eSg	A 09 00 43.5 A 01 08	<u>Czechoslovakia</u> 50.61 N 14.17 E H = 09 00 13.1 h = 0 km D = 1.63 Az = 272 (ISC)
17.	iP e ePP eS LmV LmH	A 17 32 54.5 A 35 48 A 36 10 BC 43 00 B 18 13.8 B 15.3	<u>South of Honshu</u> 33.71 N 140.09 E H = 17 20 32.6 h = 112 km MB = 5.5 D = 84.50 Az = 330 (ISC) PV A 1.6s 121.0nm M = 5.6 PPV A 2.0 76.9nm 5.8 LmH B 13 0.7/um LmV B 16 0.6/um
18.	eP ePP eS eScS	AB 05 29 59 B 32 08 BC 37 48 B 39 40	<u>Tibet</u> 32.69 N 88.39 E H = 05 20 11.3 h = 33 km MB=5.7 MS=6.5 D = 57.49 Az = 313 (NEIS) PV A 1.6s 384.6nm M = 6.2

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Day	Phase	h m s	Remarks
cont. 18.	eSS LmH LmV	B 05 41 56 B 54.2 B 58.7	PV B 5s 1.6/um M = 6.3 SH B 14 5.9/um 6.1 LmH B 16.5 64.5/um 6.8 LmV B 18 56.5/um 6.8
18.	eP	A 05 43 09	<u>Tibet</u> 32.64 N 88.43 E H = 05 33 19.7 h = 33 km MB = 4.6 D = 57.56 Az = 313 (NEIS)
18.	eP	A 06 47 23	<u>Pakistan</u> 30.25 N 66.27 E H = 06 39 02.1 h = 26.9 km MB = 4.9 D = 45.15 Az = 313 (NEIS)
18.	eP ePP eSKS eS ePS eSSS LmH LmV	AB 10 30 56 AB 34 40 B 41 31 B 42 00 B 43 28 C 52 10 B 11 19.4 B 24.4	<u>Southern Sumatra</u> 4.35 S 102.02 E H = 10 17 41 h = 33 km MB=5.5 MS=5.9 D = 93.59 Az = 320 (NEIS) PV A 1.2s 24.4nm M = 5.5 LmH B 20 3.9/um 5.9 LmV B 18 2.5/um 5.7
18.	iPg eSg	A 15 12 53.5 A 13 13	<u>Federal Republic of Germany</u> 50.7 N 9.4 E H = 15 12 33.3 h = 33 km D = 1.4 Az = 90 (ISC)
18.	eP LmH LmV	A 17 33 13 B 57.3 B 18 02.1	<u>Tibet</u> 32.61 N 88.32 E H = 17 23 24.4 h = 33 km MB = 4.9 D = 57.51 Az = 313 (NEIS) PV A 1.5s 30.2nm M = 5.1 LmH B 16 0.8/um 4.9 LmV B 16 0.5/um 4.8
18.	eP	A 22 06 05	<u>Eastern Siberia</u> 60.08 N 143.37 E H = 21 55 39.7 h = 33 km MB = 4.6 D = 62.95 Az = 328 (NEIS) traces

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Day	Phase	h m s	Remarks
18.	eP A	23 22 38	<u>Tibet</u> 32.70 N 88.42 E
	LmV B	51.5	H = 23 12 49.5 h = 33 km MB = 4.7
	LmH B	51.6	D = 57.51 Az = 313 (NEIS)
			PV A traces LmH B 19s 0.5/um M = 4.6 LmV B 19 0.5/um 4.7
19.	ePKP A	06 22 36	<u>Fiji Islands Region</u> 17.81 S 178.68 W H = 06 04 04.2 h = 611.9 km MB = 4.7 D = 146.22 Az = 348 (NEIS)
19.	ePn A	08 30 01	<u>Austria</u> 47.51 N 12.74 E
	lPg A	30 13	H = 08 29 10.1 h = 10 km
	eSn A	30 39	D = 3.23 Az = 347 (ISC)
	eSg A	30 56	
19.	ePn A	21 42 43.3	<u>Austria</u> 47.63 N 12.70 E
	ePg A	42 55.5	H = 21 41 54.2 h = 10 km
	eSn A	43 22	D = 3.10 Az = 347 (NEIS)
	eSg A	43 36	
19.	eP A	22 15 44	<u>Andreanof Islands, Aleutian Is.</u> 51.49 N 174.32 W H = 22 03 48.3 h = 47 km MB = 4.7 D = 78.11 Az = 356 (NEIS)
19.	ePn A	23 45 19	<u>Austria</u> 47.65 N 12.83 E
	ePg A	45 35	H = 23 44 28.6 h = 10 km (NEIS)
	eSg A	46 14	D = 3.10 Az = 346
20.	eP A	16 09 30.5	<u>Ryukyu Islands</u> 26.77 N 126.32 E H = 15 57 16.3 h = 144.6 km MB = 4.9 D = 83.83 Az = 324 (NEIS)
21.	eP A	03 02 47.5	<u>Gulf of California</u> 29.27 N 112.97 W
	eS C	13 25	H = 02 50 03.4 h = 33 km MB=5.2 MS=5.6
	eSS C	19 00	D = 86.60 Az = 32 (NEIS)
	LmH B	40.0	PV A 1.8s 50.7nm M = 5.5
	LmV B	42.9	LmH B 17.5 11.8/um 6.4 LmV B 16.5 7.0/um 6.2

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Day	Phase	h m s	Remarks
21.	ePKP2 A	10 12 36	<u>Kermadec Islands Region</u> 31.45 S 179.89 W H = 09 52 38.6 h = 324 km MB = 5.2 (NEIS) D = 159.0
21.	eP A	11 52 16	<u>Mindanao, Philippine Islands</u>
	ePP A	56 21	6.83 N 123.58 E H = 11 39 40.1 h = 601.3 km MB = 5.8 D = 98.36 Az = 323 (NEIS)
			PV A 2.2s 98.1nm M = 5.8 PPV A 2.0 81.2nm 5.9
21.	e(Sb) A	12 51 51	<u>Poland</u> 50.15 N 19.00 E
	eSg A	52 09	H = 12 49 36.3 h = 0 km (ISC) D = 4.75
21.	eP A	14 46 31.5	<u>Near East Coast of Kamchatka</u> 53.0 N 160.15 E H = 14 35 00.5 h = 33 km MB = 4.9 D = 73.38 Az = 340 (NEIS)
21.	ePg A	19 28(58)	<u>Switzerland</u> 47.1 N 8.4 E
	eSb A	29 44	H = 19 27 41 h = 20 km D = 4.10 Az = 30 (ISC)
21.	ePKP2 A	23 25 02	<u>Kermadec Islands Region</u> 29.28 S 179.04 W H = 23 05 12.5 h = 330 km MB = 4.8 (NEIS) D = 157.0
22.	ePKHKP A	08 59 07	<u>Fiji Islands Region</u> 19.08 S 177.02 W H = 08 39 31.5 h = 89.8 km MB = 5.0 D = 147.76 Az = 350 (NEIS)
22.	ePKHKP A	13 30 59	<u>Tonga Islands Region</u> 22.16 S 173.98 W H = 13 11 05.5 h = 33 km MB = 4.7 D = 151.24 Az = 353 (NEIS)

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Day	Phase	h m s	Remarks	
22.	ePKIKP	A 16 15 50.5	<u>Solomon Islands</u> 10.23 S 161.13 E	
	epPKIKP	A 16 11	H = 15 56 44.1 h = 91.7 km MB = 5.9	
	ePP	B 18 10	D = 132.54 Az = 334 (NEIS)	
	ipPP	B 18 37	h = 66 km	
	ISKP	B 19 10	PKIKPV A 2.0s 68.4nm	
	i	B 19 48	PPV B 6.8 1.7/um M = 6.1	
	ePPP	B 21 00	LmH B 22 2.0/um	
	ePS	B 28 16	LmV B 22 3.4/um	
	e	B 35 44		
	eSS	C 37 00		
	LmH	B 17 12.6		
	LmV	B 15.5		
	22.	eP	A 21 28 17	<u>Near Coast of Northern California</u>
		LmH	B 22 03.3	39.45 N 123.26 W
LmV		B 10.2	H = 21 15 52.5 h = 5 km MB = 5.2 D = 81.94 Az = 27 (NEIS) LmH B 14s 0.5/um M = 5.0 LmV B 16 0.5/um 5.0	
23.	eP	A 09 40 46	<u>San Juan Province, Argentina</u>	
	e	A 41 08	31.03 S 67.77 W	
	ePP1	B 45 10	H = 09 26 24.7 h = 13.2 km MB=6.3 MS=7.4	
	ePP2	A 45 18	D = 107.15 Az = 41 (NEIS)	
	ePP3	AB 45 34	PP2V A 2.3s 767.8nm M = 6.9	
	ePPS	B 55 00	PP3V A 3.8 6438.0nm 7.6	
	ePKKP	A 56 34	LmH B 17.5 219.0/um 7.8	
	eSS	B 10 00 16	LmV B 17.5 222.7/um 7.8	
	ePKKP	A 00 40		
	LmV	B 33.8		
LmH	B 33.9			
23.	e(PKP)	A 13 23 45	<u>San Juan Province, Argentina</u>	
			31.07 S 67.72 W	
			H = 13 05 02.5 h = 27.1 km MB = 5.6	
			D = 107.15 Az = 41 (NEIS) (PKP)V A 2.2s 54.5nm	

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Day	Phase	h m s	Remarks
23.	+eP	A 17 07 11	<u>Fox Islands, Aleutian Is.</u>
	eS	C 17 00	52.20 N 171.55 W
	eSS	C 22 00	H = 16 55 20.4 h = 52.9 km MB=5.5 MS=5.5
	LmH	B 44.6	D = 77.50 Az = 358 (NEIS)
	LmV	B 44.6	PV A 1.4s 84.8nm M = 5.5
			LmH B 18.5 2.2/um 5.5 LmV B 19 2.3/um 5.6
24.	e(PKP)	A 02 17 17	<u>San Juan Province, Argentina</u>
	LmV	B 03 01.8	31.47 S 67.63 W
	LmH	B 02.0	H = 01 58 33.4 h = 33 km MB=5.8 MS=6.0 D = 107.40 Az = 41 (NEIS) (PKP)V A 2.0s 119.7nm LmH B 19.5 3.7/um M = 5.9 LmV B 20 4.0/um 6.0
24.	ePKP	A 02 21 13	<u>San Juan Province, Argentina</u>
			31.62 S 67.57 W
			H = 02 02 31.0 h = 23 MB = 5.7 MS = 6.3 (NEIS) D = 107.4 PKPV A 2.4s 69.1nm
24.	ePKP	A 03 05 07.5	<u>Samoa Islands Region</u> 15.73 S 172.69 W
			H = 02 45 30.4 h = 33 km MB = 4.7 D = 145.0 Az = 355 (NEIS)
24.	ePKP	A 17 19 32	<u>Tuamotu Archipelago Region</u>
			21.89 S 138.96 W
			H = 16 59 58.5 h = 0 km MB=6.0 MS=4.5 D = 143.22 Az = 31 (NEIS) PKPV A 1.2s 40.7nm
24.	ePKP	A 20 30 26	<u>Fiji Islands Region</u> 17.84 S 178.79 W
			H = 20 11 48.1 h = 548.7 MB = 5.2 D = 146.23 Az = 348 (NEIS) PKPV A 1.4s 37.2nm

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Day	Phase	h m s	Remarks
24.	LmH B	23 18.7	<u>San Juan Province, Argentina</u> 31.48 S 67.7 W H = 22 19 58.3 h = 51 km MB = 4.4 (ISC) D = 107.4 LmH B 16s 0.9/um LmV B 14.5 0.5/um
	LmV B	23.5	
26.	ePKP A	05 40 20	<u>Fiji Islands Region</u> 17.96 S 178.12 W H = 05 21 40.8 h = 563.6 km MB = 5.5 D = 146.47 Az = 349 (NEIS) PKPV A 1.8s 67.6nm
26.	ePKP A	09 34 11	<u>Tonga Islands</u> 15.27 S 174.40 W H = 09 14 51.2 h = 132.7 km MB = 5.3 D = 144.39 Az = 353 (NEIS) PKPV A 1.6s 41.2nm
26.	eP A	13 22 59	<u>Greece</u> 38.49 N 20.76 E H = 13 19 47.2 h = 66.3 km MB = 4.6 D = 13.62 Az = 336 (NEIS) PV A 0.9s 27.2nm M = 5.0
26.	e A	15 43 39	<u>Tonga Islands</u> 15.33 S 173.57 W H = 15 23 50.9 h = 33 km MB = 4.5 D = 144.53 Az = 354 (NEIS)
26.	eP A	22 57 58	<u>Northeastern China</u> 39.47 N 117.94 E H = 22 46 52.2 h = 33 km MB = 5.1 D = 69.53 Az = 319 (NEIS) LmH B 15s 1.5/um M = 5.3 LmV B 19 1.9/um 5.4
	LmH B	23 31.5	
	LmV B	31.6	
27.	eP A	02 33 15	<u>Samar, Philippine Islands</u> 11.80 N 125.47 E H = 02 19 52.3 h = 33 km MB=5.5 MS=5.7 D = 95.48 Az = 324 (NEIS) PV A 2.2s 98.2nm M = 5.9 LmH B 17.5 2.7/um 5.8 LmV B 18 3.8/um 5.9
	e A	33 24	
	ePP A	37 07	
	eSKS C	43 40	
	eS C	44 25	
	ePS BC	45 52	
eSS C	51 00		

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Day	Phase	h m s	Remarks
cont. 27.	LmH B	03 15.3	
	LmV B	20.7	
27.	eP A	08 48 00.5	<u>Kurile Islands</u> 46.42 N 153.28 E H = 08 36 05.7 h = 33 km MB=5.5 MS=5.7 D = 77.80 Az = 336 (NEIS) PV A 0.9s 66.1nm M = 5.7 PV B 10 2.6/um 6.2 LmH B 15 7.5/um 6.1 LmV B 16 5.4/um 6.0
	eS BC	57 50	
	eSS C	09 03 25	
	LmH B	30.4	
	LmV B	31.2	
27.	eP A	10 27 24	<u>Kurile Islands</u> 46.56 N 153.12 E H = 10 15 27.8 h = 33 km MB = 4.8 D = 77.63 Az = 336 (NEIS)
27.	ePKHKP A	10 39 20.5	<u>Fiji Islands Region</u> 21.00 S 176.43 W H = 10 19 54.6 h = 198.6 km MB = 4.2 D = 149.74 Az = 350 (NEIS) PKHKPV A 1.3s 28.4nm
27.	eP A	10 58 42.5	<u>Aleutian Islands Region</u> 51.34 N 166.34 W H = 10 46 43.8 h = 33 km MB=5.0 MS=4.7 D = 78.37 Az = 1 (NEIS) PV A 1.5s 35.2nm M = 5.2
27.	ePKIKP A	12 58 56	<u>Fiji Islands Region</u> 20.48 S 178.43 W H = 12 40 15 h = 558.4 km MB = 5.6 D = 148.87 Az = 348 (NEIS)
	ePKHKP A	59 01.5	
	ePKP2 A	59 07	
	epPKP A	13 01 17	
27.	eP A	15 16 10.5	<u>Alaska Peninsula</u> 58.56 N 155.38 W H = 15 05 06.8 h = 116 km MB = 4.9 D = 70.64 Az = 9 (NEIS) h = 105 km
	epP A	16 38.5	
	esP A	16 47	
27.	LmH B	18 40.0	<u>Southern Pacific Ocean</u> 41.55 S 90.65 W H = 17 28 04.2 h = 33 km MB = 5.3 MS = 4.8 (NEIS) D = 127.6
	LmV B	40.5	

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Day	Phase	h m s	Remarks
cont. 27.			LmH B 20s 0.35/um M = 5.0 LmV B 20 0.55/um 5.2
27.	eP A	20 47 10	<u>Turkey</u> 37.72 N 32.04 E H = 20 42 42.6 h = 33.2 km MB = 4.2 D = 19.45 Az = 318 (NEIS) PV A 1.5s 17.6nm M = 4.1
27.	ePKP A	23 01 22.5	<u>Tonga Islands</u> 15.83 S 174.78 W H = 22 42 08.5 h = 205.6 km MB = 4.0 D = 144.89 Az = 353 (NEIS)
28.	+iP AB	03 03 24.3	<u>Dodecanese Islands</u> 36.05 N 27.76 E H = 02 59 10.8 h = 85 km MB = 5.6 D = 18.66 Az = 326 (NEIS)
	eipP B	03 47	
	eS B	06 50	
	LmH B	13.1	PV A 1.6s 2390.0nm M = 6.2
	LmV B	13.1	LmH B 12 1.6/um LmV B 11 2.5/um
28.	eP A	04 49 10	<u>Mexico - Guatemala Border Region</u> 15.34 N 91.43 W H = 04 36 52.5 h = 225 km MB=5.1 (NEIS) D = 86.4 PV A 1.5s 32.7nm M = 4.9 FPV A 1.2 12.2nm 4.8 LmH B 21 0.6/um LmV B 18 0.5/um
	ePP A	52 35	
	LmH E	05 23.3	
	LmV B	23.3	
28.	ePKP AB	06 50 13	<u>San Juan Province, Argentina</u> 31.54 S 67.43 W H = 06 31 29.3 h = 15.7 km MB=5.7 MS=5.8 D = 107.20 Az = 41 (NEIS)
	ePS C	59 32	
	ePKKP A	07 01 26	
	eSS C	05 30	
	LmH B	32.6	PKPV A 2.0s 47.0nm
	LmV B	39.1	PKPV B 10 1.3/um LmH B 18 2.4/um M = 5.8 LmV B 17 2.8/um 5.9

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Day	Phase	h m s	Remarks
28.	LmH C	24 06.8	<u>Taiwan Region</u> 21.14 N 120.85 E H = 23 17 26.7 h = 27.6 km MB = 4.6 D = 85.38 Az = 323 (NEIS) LmH C 21s 0.45/um M = 4.8
28.	eP A	24 09 37	<u>Kurile Islands Region</u> 43.80 N 148.08 E H = 23 57 38.7 h = 38 km MB = 4.9 (NEIS) D = 78.5
29.	eP A	20 20 48	<u>Greece</u> 38.04 N 21.79 E H = 20 17 12.3 h = 44.1 km MB = 3.9 D = 14.53 Az = 333 (NEIS) traces
30.	+iP AB	04 14 49	<u>Eastern Kazakh SSR</u> 49.96 N 78.93 E H = 04 06 57.5 h = 0 km MB = 5.9 D = 41.64 Az = 298 (NEIS) Underground explosion M = 6.9 (UPP) PV A 1.0s 256.0nm M = 5.9
	iPn A	16 20.5	
	LmV B	32.6	
30.	ePKIKP AB	10 34 26	<u>Fiji Islands Region</u> 20.61 S 178.42 W H = 10 15 43.4 h = 550.1 km MB = 5.5 D = 149.0 Az = 348 (NEIS)
	iPKHKP AB	34 30	
	iPKP2 A	34 35.5	
	ePP BC	37 36	PKIKPV A 2.0s 77.0nm
	ePPP B	40 54	PKHKPV A 1.6 313.0nm PKP2V A 1.5 115.8nm
30.	LmV B	13 12.3	<u>South of Mariana Islands</u> 12.50 N 141.49 E H = 12 08 04.9 h = 32 km MB = 5.4 MS = 4.9 (NEIS) D = 103.5 LmH B 16s 0.4/um M = 5.0 LmV B 20 0.7/um 5.2
	LmH B	12.7	
30.	ePKP A	22 07 58	<u>Fiji Islands Region</u> 17.67 S 178.98 W H = 21 49 18 h = 539.2 MB = 5.2 D = 146.03 Az = 348 (NEIS) PV A 1.2s 28.5nm

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Day	Phase	h m s	Remarks
1.	eP A	21 18 58	<u>Southern Iran</u> 27.66 N 56.57 E H = 21 11 17.9 h = 33 km MB = 5.1 D = 40.91 Az = 317 (NEIS)
2.	ePKIKP A	04 32 39	<u>East Papua New Guinea Region</u>
	epPKIKP A	32 57	5.03 S 145.03 E
	e A	34 25	H = 04 13 53.8 h = 65.5 km MB = 5.7
	LmV B	05 23.6	D = 120.20 Az = 328 (NEIS)
	LmH B	25.3	h = 65 km LmH B 21s 2.3/um LmV B 24 2.9/um
2.	+iP AB	13 08 43.5	<u>Off East Coast of Kamchatka</u>
	eS C	18 08	52.93 N 159.71 E
	eFS C	18 34	H = 12 57 10.7 h = 15.1 km MB=5.8 MS=5.1
	LmH B	43.0	D = 73.35 Az = 339 (NEIS)
	LmV B	48.0	PV A 1.6s 313.0nm M = 6.1 PV B 4 1.1/um 6.2 LmH B 17 2.4/um 5.5 LmV B 10 0.9/um 5.4
2.	ePKP A	23 03 18	<u>Loyalty Islands Region</u> 21.62 S 169.99 E H = 22 43 41.3 h = 62.9 km D = 146.43 Az = 335 (NEIS)
3.	eP A	05 19 30	<u>South of Honshu Japan</u> 30.30 N 138.39 E H = 05 07 32.1 h = 418.8 km MB = 5.2 D = 86.70 Az = 329 (NEIS)
3.	eP A	05 42 20	<u>Albania</u> 40.25 N 19.90 E
	LmH C	46.7	H = 05 39 29.5 h = 27.2 km MB = 5.1
	LmV C	48.0	D = 11.91 Az = 334 (NEIS) LmH C 18s 0.8/um M = 3.7
3.	eP A	12 36 46	<u>Costa Rica</u> 9.26 N 84.69 W
	e A	36 52	H = 12 24 06.7 h = 58.6 km MB = 4.8
	e A	36 57	D = 86.89 Az = 39 (NEIS) FV A 1.2s 28.5nm M = 5.5

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Day	Phase	h m s	Remarks
3.	-eP ABC	13 53 47	<u>Off W. Coast of Northern Sumatra</u>
	epP A	54 00	3.51 N 95.89 E
	esP A	54 09	H = 13 41 20.9 h = 41 km MB=5.8 MS=5.9
	ePP C	57 06	D = 83.67 Az = 320 (NEIS)
	eSKS C	14 04 05	PV A 1.6s 214.0nm M = 6.0
	eS B	04 20	PV B 6.5 1.1/um 6.0
	eSS BC	09 35	LmH B 18 2.4/um 5.6
	eSSS C	13 00	LmV B 16 1.0/um 5.3
	LmH B	37.6	
	LmV B	37.6	
3.	ePKHKP A	18 19 22	<u>Tonga Islands Region</u> 22.00 S 174.94 W
	ePKP2 A	19 32	H = 17 59 31.3 h = 33 km MB = 5.3 D = 150.95 Az = 351 (NEIS)
4.	ePKIKP A	06 10 20	<u>South of Fiji Islands</u> 23.89 S 176.08 W
	ePKHKP A	10 27	H = 05 50 35.6 h = 55.6 km MB=5.6 MS=6.2
	e A	10 30	D = 152.63 Az = 349 (NEIS)
	ePKP2 A	10 37	PKHKPV A 1.1s 24.2nm
	ePP C	14 10	LmH E 18.5 3.0/um
	eSKKS C	21 00	LmV B 20 3.6/um
	eSKSP C	24 20	
	ePPPS C	29 05	
	eSS C	34 35	
	LmV B	07 28.2	
	LmH B	28.7	
4.	eP A	11 49 50	<u>Sea of Okhotsk</u> 48.25 N 146.59 E
	epP A	51 22	H = 11 39 02.8 h = 479 km MB = 5.1 D = 74.17 Az = 332 (NEIS) h = 433 km FV A 1.2s 36.6nm M = 4.8
4.	ePKIKP A	14 42 33	<u>Fiji Islands Region</u> 18.29 S 176.36 W
	-ePKHKP A	42 36	H = 14 23 24 h = 271.6 km MB = 5.2 D = 147.10 Az = 351 (NEIS) PKHKPV A 1.9s 159.1nm

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Day	Phase	h m s	Remarks
4.	ePKP A	15 29 46	<u>New Hebrides Islands</u> 20.60 S 169.34 E H = 15 10 18.4 h = 101.8 km MB = 5.1 D = 145.25 Az = 335 (NEIS)
5.	LmH B LmV B	10 32.6 36.4	<u>Ethiopia</u> 12.70 N 40.47 E H = 10 02 57.1 h = 33 km MB = 4.5 (NEIS) D = 44.5 LmH B 16s 0.6/um M = 4.6 LmV B 16 0.6/um 4.7
5.	ePKHKP A ePKP2 A ePKS EC ePP EC eSKSP EC eSS EC LmH B LmV B	14 33 48 34 04 37 20 37 40 47 50 57 10 15 54.9 57.5	<u>South of Fiji Islands</u> 23.92 S 175.95 W H = 14 13 52 h = 33 km MB=5.5 MS=5.9 D = 152.68 Az = 349 (NEIS) PKHKPV A 1.7s 60.6nm LmH B 17 1.9/um M = 5.9 LmV B 17.5 2.6/um 6.1
5.	e(PP) A LmV B LmH B	16 02 08 44.2 44.3	<u>San Juan Province, Argentina</u> 30.97 S 67.70 W H = 15 43 27.9 h = 32 km MB=5.4 MS=5.6 D = 107.06 Az = 41 (NEIS) traces LmH B 20s 1.3/um M = 5.5 LmV B 22.5 1.7/um 5.6
6.	eP A	06 31 32	<u>Taiwan</u> 23.07 N 121.71 E H = 06 18 59.4 h = 45.1 km MB = 4.9 D = 84.31 Az = 323 (NEIS) PV A 3.2s 185.2nm M = 5.7
6.	eP A e(pP) A ePP A LmH B LmV B	11 00 30 00 35 02 07 17.8 19.9	<u>Kirgiz SSR</u> 41.43 N 69.73 E H = 10 52 53.5 h = 33 km MB = 5.2 D = 40.43 Az = 304 (NEIS) (23 km) PV A 1.4s 41.9nm M = 5.0 LmH B 18.5 1.0/um 4.7 LmV B 10 1.0/um 5.0

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Day	Phase	h m s	Remarks
6.	ePKP2 A LmH C LmV C	13 27 35 14 48.3 50.5	<u>South of Tonga Islands</u> 24.82 S 175.82 W H = 13 07 23.7 h = 33 km MB=4.9 MS=4.7 D = 153.59 Az = 349 (NEIS) PKP2V A 1.8s 33.8/um LmH C 16 0.4/um M = 5.2 LmV C 18 0.4/um 5.3
6.	ePKP A LmH B LmV B	17 23 40 18 06.0 06.0	<u>San Juan Province, Argentina</u> 31.17 S 67.72 W H = 17 05 06.4 h = 18.5 km MB = 5.9 MS = 5.9 (NEIS) D = 107.23 LmH B 21s 2.9/um M = 5.8 LmV B 20 2.7/um 5.8
6.	ePn A e A	17 25 55 26 12	<u>Czechoslovakia</u> 49.21 N 15.40 E H = 17 25 08.8 h = 0 km D = 2.84 Az = 302 (ISC)
6.	ePP A ei A LmH B LmV B	18 11 31 12 14 19 04.0 04.8	<u>South of Sumbawa Islands</u> 11.22 S 118.26 E H = 17 52 35.2 h = 33 km MB=5.7 MS=5.6 D = 109.15 Az = 320 (NEIS) LmH B 20s 1.2/um M = 5.5 LmV B 20 1.7/um 5.7
7.	ePKHKP A ePKP2 A	06 19 39.5 19 51.5	<u>South of Tonga Islands</u> 24.13 S 175.62 W H = 05 59 44.3 h = 33 km MB=5.2 MS=4.7 D = 152.94 Az = 350 (NEIS) PKHKPV A 1.5s 27.6nm
7.	LmH C	09 55.3	<u>Mariana Islands</u> 13.64 N 144.61 E H = 08 58 06.2 h = 136 km MB = 5.4 (NEIS) D = 104.0 LmH traces
7.	iPn A ePg A iSn A iSg A	19 22 15 22 31 23 05 23 30	<u>Austria</u> 46.23 N 13.30 E H = 19 21 06.5 h = 33 km D = 4.56 Az = 346 (NEIS)

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Day	Phase	h m s	Remarks
7.	ePP	A 20 48 48	<u>Volcano Islands Region</u> 21.95 N 143.30 E H = 20 31 46.3 h = 201 km MB = 5.2 (NEIS) D = 96.1
8.	eP	A 00 44 48	<u>Crete</u> 35.21 N 23.38 E
	ePP	A 45 02	H = 00 40 43.6 h = 62.4 km MB = 4.5 D = 17.63 Az = 335 (NEIS)
8.	ePKP	A 02 37 51	<u>Fiji Islands Region</u> 16.18 S 176.05 W H = 02 18 51.3 h = 336.2 km MB = 4.4 D = 145.07 Az = 351 (NEIS) traces
8.	ePKHKP	A 05 13 36	<u>South of Fiji Islands</u> 23.36 S 176.34 W H = 04 53 58.10 h = 153.1 km MB = 4.3 D = 152.07 Az = 349 (NEIS)
8.	ePKIKP	A 06 35 03	<u>South of Tonga Islands</u> 24.15 S 175.60 W
	ePKHKP	A 35 12	H = 06 15 16.2 h = 33 km MB=5.5 MS=6.1
	ePKP2	A 35 17.5	D = 152.96 Az = 350 (NEIS)
	eSESP	C 49 00	PKHKPV A 2.0s 102.6nm
	eSS	C 58 00	LmH B 18 2.6/um M = 6.0
	LmV	B 07 51.1	LmV B 19 3.0/um 6.1
	LmH	B 54.1	
8.	ePKHKP	A 12 33 27	<u>Tonga Islands</u> 17.79 S 173.71 W
	epPKP	A 34 16	H = 12 14 00.5 h = 150.6 km MB = 5.1 D = 146.95 Az = 354 (NEIS) h = 185 km
8.	eP	A 14 07 45	<u>Sea of Okhotsk</u> 50.43 N 149.81 E H = 13 57 04.4 h = 502 km MB = 4.5 D = 73.19 Az = 334 (NEIS)
9.	ePKIKP	A 05 21 32	<u>South of Fiji Islands</u> 23.52 S 175.96 W
	ePKP2	A 21 55	H = 05 01 38.1 h = 33 km MB=5.1 MS=4.6 D = 152.29 Az = 350 (NEIS)

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Day	Phase	h m s	Remarks
9.	eP	A 15 57 30	<u>Turkey</u> 38.35 N 27.19 E
	ePP	A 57 47	H = 15 53 36.7 h = 18.7 km MB = 4.6
	ePPP	A 57 56	D = 16.53 Az = 323 (NEIS)
	LmH	B 16 03.3	PV A 1.8s 114.9nm M = 4.7
	LmV	B 05.2	LmH B 15 2.3/um 4.5 LmV B 12 1.7/um 4.6
10.	ePKHKP	A 00 49 09.5	<u>Fiji Islands Region</u> 21.50 S 179.50 W H = 00 30 27.8 h = 619 km MB = 4.9 (NEIS) D = 149.6 PKHKPV A 1.0s 11.8nm
10.	eP	AC 05 54 02	<u>Southern Iran</u> 27.69 N 56.57 E
	ePP	BC 55 40	H = 05 46 22.9 h = 46.8 km MB=5.1 MS=5.0
	ePcP	A 56 10	D = 40.89 Az = 317 (NEIS)
	eS	EC 06 00 10	LmH B 19s 1.7/um M = 4.9
	eSS	BC 03.5	LmV B 16 2.0/um 5.2
	LmH	B 14.6	
	LmV	B 14.8	
10.	LmH	B 08 18.0	<u>San Juan Province, Argentina</u>
	LmV	B 18.0	31.19 S 67.64 W H = 07 11 56.0 h = 39 km MB = 5.6 MS = 4.8 (NEIS) D = 107.1 traces
10.	ePP	A 15 35 30	<u>South of Honshu, Japan</u> 32.04 N 138.86 E
	LmH	B 16 14.2	H = 15 19 28.8 h = 33 km
	LmV	B 15.7	MB = 5.0 MS = 4.7 (NEIS) D = 85.5 LmH B 14.5s 1.0/um M = 5.3 LmV B 13 1.4/um 5.6
10.	iP	A 23 23 15.5	<u>Kurile Islands</u> 47.59 N 152.84 E
	epP	A 23 45	H = 23 11 37.1 h = 128 km MB = 5.2
	esP	A 24 05	D = 76.60 Az = 336 (NEIS)
	LmH	B 56.8	h = 125 km
			PV A 1.2s 32.5nm M = 5.0 LmH B 16 1.6/um

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Day	Phase	h m s	Remarks
11.	ePn	A 14 32 12	<u>Northern Italy</u> 46.4 N 13.4 E
	ePg	A 32 30	H = 14 31 07.5 h = 10 km (CSEM)
	eSn	A 33 04	D = 4.2
	eSg	A 33 22	
11.	eP	A 16 34 03	<u>Venezuela</u> 9.52 N 69.56 W
	epP	A 34 08	H = 16 22 08.6 h = 18.3 km MB=5.6 MS=5.0
	ePP	A 37 03	D = 77.12 Az = 40 (NEIS)
			h = 18 km
			PV A 1.8s 60.8nm M = 5.4
12.	eP	AZ 02 56 33	<u>Taiwan</u> 23.05 N 121.40 E
	ePcP	A 56 38	H = 02 44 03.4 h = 26.2 km MB = 5.1
	LmH	B 03 34.3	D = 84.16 Az = 323 (NEIS)
	LmV	B 39.2	PV A 1.3s 17.5nm M = 5.1
			LmH B 15.5 3.0/um 5.8
			LmV B 14 3.7/um 5.9
12.	ePKHKP	A 06 06 42	<u>Loyalty Islands Region</u> 22.36 S 170.65 E
			H = 05 47 03.2 h = 33 km MB = 5.3
			D = 147.35 Az = 335 (NEIS)
			PKHKPV A 2.2s 87.2nm
12.	ePKIKP	A 08 57 17	<u>Tonga Islands</u> 17.77 S 175.11 W
	iPKHKP	A 57 19.5	H = 08 38 00.2 h = 202.3 km MB = 5.3
	ePKP2	A 57 22	D = 146.76 Az = 352 (NEIS)
	epFKP	A 58 18	PKHKPV A 1.3s 69.9nm
12.	LmV	B 21 41.3	<u>South Pacific Cordillera</u>
	LmH	B 42.5	57.47 S 148.13 W
			H = 20 03 45.1 h = 33 km MB = 5.0
			D = 166.31 Az = 111 (NEIS)
			LmH B 18.5s 1.0/um M = 5.5
			LmV B 18.5 1.3/um 5.8
13.	-iP	ABC 01 24 37	<u>North Atlantic Ocean</u> 17.36 N 54.85 W
	ePcP	AB 25 16	H = 01 14 18.6 h = 33 km MB=5.7 MS=6.4
	ePP	E 26 50	D = 61.87 Az = 41 (NEIS)
	ePPP	B 28 15	PV A 2.6s 346.6nm M = 6.0

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Day	Phase	h m s	Remarks
cont. 13.	eS	EC 01 33 00	SH B 12s 9.9/um M = 6.6
	ePS	B 33 10	LmH B 17.5 11.3/um 6.1
	eScS	B 34 25	LmV B 17.5 14.9/um 6.3
	eSS	B 37 10	
	eSSS	B 39 50	
	LmH	B 47.5	
	LmV	B 47.5	
	eP'P'	A 53 55	
13.	ePn	A 02 05 40	<u>Northern Italy</u> 45.94 N 12.19 E
	e	A 06 10	H = 02 04 28.3 h = 10 km
	eSn	A 06 26	D = 4.72 Az = 356 (ISC)
	e	A 07 07	
13.	ePKIKP	A 03 26 27	<u>Fiji Islands Region</u> 17.80 S 178.79 W
	ePKHKP	A 26 28.5	H = 03 07 47.7 h = 533.6 km MB = 5.3
	ePKP2	A 26 31	D = 146.19 Az = 348 (NEIS)
			PKHKPV A 1.2s 56.9nm
13.	ePKHKP	A 06 47 19	<u>Tonga Islands</u> 18.31 S 173.52 W
			H = 06 27 40 h = 37.7 km MB = 5.2
			D = 147.48 Az = 354 (NEIS)
			PKHKPV A 1.2s 16.3nm
13.	LmV	B 09 56.4	<u>West Caroline Islands</u> 8.07 N 137.03 E
	LmH	B 56.5	H = 08 47 25.7 h = 44 km
			MB = 5.2 MS = 4.9 (NEIS)
			D = 105.0
			LmH B 16s 0.6/um M = 5.2
			LmV B 17.5 0.9/um 5.4
13.	e(Sg)	A 14 24 16	<u>Central Italy</u> 43.33 N 12.47 E
			H = 14 20 33.7 h = 33 km
			D = 7.35 Az = 356 (NEIS)
13.	ePg	A 22 13 18	D ca. 4.1
	eSn	A 13 43	
	eSg	A 14 06	

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Day	Phase	h m s	Remarks	
14.	ePn eSn iSg	A A A	01 48 36 49 27 49 51.2	<u>Northern Italy</u> 45.39 N 12.70 E H = 01 47 26.8 h = 33 km MB = 4.7 D = 5.31 Az = 352 (NEIS)
14.	eP	A	03 13 28	<u>South Indian Ocean</u> 33.79 S 58.04 E H = 03 00 14.6 h = 33 km MB=5.6 MS=4.7 D = 93.52 Az = 332 (NEIS) FV A 1.6s 38.5nm M = 5.6
14.	ePKHKP LmH LmV	A B B	05 01 20 06 03.8 06.1	<u>Kermadec Islands Region</u> 27.53 S 178.35 W H = 04 41 23.1 h = 44.6 km MB=5.1 MS=5.3 D = 155.70 Az = 344 (NEIS) LmH B 24s 1.3/um M = 5.6 LmV B 24 1.4/um 5.7
14.	eP ePP	A A	09 00 58.5 04 57	<u>Leyte, Philippine Islands</u> 10.00 N 125.29 E H = 08 47 51.8 h = 222.6 km MB = 5.3 D = 96.82 Az = 324 (NEIS) FV A 1.3s 26.2nm M = 5.4
14.	eP e e LmH LmV	A A A B B	09 07 52 08 02 08 11 43.5 48.8	<u>Off Coast of Hokkaido, Japan</u> 42.27 N 147.55 E H = 08 55 44.5 h = 20 km MB = 5.1 D = 79.79 Az = 333 (NEIS) FV A 2.0s 42.8nm M = 5.1 LmH B 17 0.9/um 5.2 LmV B 16 0.7/um 5.2
14.	ePKP epPKP	A A	10 38 07 38 12	<u>Tonga Islands</u> 15.31 S 173.14 W H = 10 18 33.2 h = 33 km MB = 5.0 D = 144.55 Az = 355 (NEIS) h = 18 km PKPV A 1.4s 14.0nm
14.	+eP	AB	15 42 18	<u>Southern Nevada</u> 37.14 N 116.09 W H = 15 30 00.2 h = 0 km MB = 5.7 D = 81.23 Az = 31 (NEIS)

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Day	Phase	h m s	Remarks	
cont. 14.	ePP	A	15 45 23	FV A 1.3s 78.5nm M = 5.6
14.	ePKIKP iPKHKP iPKP2	A A A	19 11 07 11 12.5 11 19	<u>Fiji Islands Region</u> 21.10 S 179.15 W H = 18 52 34.9 h = 659 km MB = 5.6 D = 149.32 Az = 347 (NEIS) PKIKPV A 0.8s 30.8nm PKHKPV A 1.5 272.0nm PKP2V A 1.4 154.0nm
14.	ePb eSn eSb eSg	A A A A	20 36 03 36 48 37 09 37 30	<u>Northern Italy</u> 44.55 N 10.24 E H = 20 34 09 h = 33 km D = 6.17 Az = 8 (NEIS)
14.	eP	A	23 38 06.5	<u>Kurile Islands</u> 44.15 N 148.61 E H = 23 26 10.8 h = 56.9 km MB = 4.7 D = 78.46 Az = 334 (NEIS)
15.	e	A	00 06 40	<u>Western Poland</u> (VIE)
15.	eP	A	08 10 18	<u>Crete</u> 34.92 N 23.08 E H = 08 06 10.8 h = 47 km MB = 4.3 (NEIS) D = 17.8
15.	ePKHKP epPKP	A A	08 55 53 56 04	<u>Tonga Islands</u> 21.69 S 173.81 W H = 08 35 57.4 h = 33 km MB = 4.9 D = 150.79 Az = 353 (NEIS) PKHKPV A 1.9s 53.0nm
15.	eP epP	A A	09 14 10 14 20	<u>Kurile Islands</u> 47.04 N 153.75 E H = 09 02 18.2 h = 49.6 km MB = 4.6 D = 77.36 Az = 336 (NEIS) h = 37 km
15.	ePKP2	A	11 04 08	<u>Tonga Islands</u> 21.3 S 173.7 W H = 10 44 16 h = 54 km D = 150.45 Az = 353 (ISC)

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Day	Phase	h m s	Remarks
15.	ePg	A 12 40 43	<u>Czechoslovakia</u> 49.4 N 16.7 E
	eSn	A 41 09	H = 12 39 40 h = 0 km
	eSg	A 41 32	D = 3.49 Az = 292 (ISC)
15.	eP	A 15 13 04	<u>Eastern Caucasus</u> 43.24 N 45.17 E
	LmH	C 23.1	H = 15 07 51.8 h = 33 km MB = 4.9
	LmV	C 25.0	D = 23.92 Az = 300 (NEIS) PV A 1.8s 57.5nm M = 4.8 LmH C 18 2.0/um 4.6
15.	eP	A 15 28 42	<u>Eastern Caucasus</u> 43.64 N 45.37 E
	ePP	A 29 12	H = 15 23 30.7 h = 33 km MB = 4.6 D = 23.85 Az = 299 (NEIS)
15.	eP	A 16 03 53	<u>South Indian Ocean</u> 2.46 S 85.75 E
			H = 15 51 35.5 h = 33 km MB = 5.0 D = 81.89 Az = 322 (NEIS)
15.	ePKHKP	A 16 10 55	<u>Tonga Islands Region</u> 23.40 S 175.31 W
	ePKP2	A 11 04	H = 15 51 00.9 h = 33 km MB = 4.9 D = 152.27 Az = 351 (NEIS) PKHKPV A 1.2s 16.3nm
15.	eP	A 23 30 50.5	<u>Tanzania</u> 4.76 S 34.91 E
	e	A 31 10	H = 23 20 53.6 h = 33 km MB=4.8 MS=5.6
	ePcP	A 31 38	D = 58.72 Az = 343 (NEIS)
	LmH	C 24 02.7	LmH C 15s 1.9/um M = 5.3
	LmV	C 03.1	LmV C 16 1.2/um 5.2
16.	iIn	A 00 42 04.3	<u>Yugoslavia</u> 46.00 N 15.86 E
	ePg	A 42 28	H = 00 40 43.4 h = 33 km
	iSn	A 43 04	D = 5.44 Az = 330 (NEIS)
	eSb1	A 43 22	
	eSb2	A 43 28	
	iSg	A 43 40	

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Day	Phase	h m s	Remarks
16.	eP	A 07 23 40.5	<u>Kurile Islands</u> 43.23 N 146.76 E
	epP	A 23 50	H = 07 11 41.6, h = 38.2 km MB=5.4 MS=4.6 D = 78.67 Az = 333 (NEIS) h = 35 km PV A 1.2s 36.6nm M = 5.3
16.	eP	A 07 41 22	<u>Turkey</u> 38.44 N 27.22 E
	Pm	A 41 24	H = 07 37 30.1 h = 34 km
	iX	A 41 28.5	MB = 5.3 MS = 4.2 (NEIS)
	LmH	B 47.1	D = 16.5
	LmV	B 49.1	PmV A 1.8s 358.0nm M = 5.2 XV A 1.9 29.6nm LmH B 13 6.8/um 5.4 LmV B 11 5.7/um 5.5
16.	eP	A 09 20 36	<u>Off East Coast of Kamchatka</u>
			51.63 N 159.46 E H = 09 08 59.7 h = 33 km MB=4.7 MS=4.3 D = 74.51 Az = 339 (NEIS)
16.	ePn	A 10 35 28	<u>Austria</u> 46.71 N 12.99 E
	eSg	A 36 37	H = 10 34 24.10 h = 10 km (NEIS) D = 4.2
16.	iP	A 15 22 46.0	<u>Near East Coast of Honshu, Japan</u>
	ipP	A 22 58.5	36.62 N 140.99 E
	LmH	C 54.9	H = 15 10 28 h = 46 km MB=5.6 MS=5.4
	LmV	C 16 02.2	D = 82.35 Az = 330 (NEIS) h = 46 km PV A 1.4s 102.2nm M = 5.7 LmH C 23 1.5/um 5.3 LmV C 18 1.0/um 5.3
16.	ePg	A 20 29 08	<u>France</u> 48.52 N 7.44 E
	eSg	A 29 52	H = 20 28 06.3 h = 35.3 km D = 3.45 Az = 50 (NEIS)
17.	iPg	A 02 35 21.2	<u>Bleicherode, German Democrat. Rep.</u>
	eiSg	A 35 36	D = 1.1 (MOX)

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Day	Phase	h m s	Remarks
17.	-eP A	11 44 16.5	<u>Fox Islands, Aleutian Is.</u> 52.23 N 170.10 W H = 11 32 24.4 h = 43.9 km MB = 5.0 MS = 5.1 (NEIS) D = 77.5
17.	ePKIKP A iPKHKP A iPKP2 A	16 21 37 21 43 21 49.5	<u>Fiji Islands Region</u> 21.05 S 178.79 W H = 16 03 00.3 h = 601.8 km MB = 5.1 (NEIS) D = 149.3 PKIKPV A 2.0s 42.8nm PKHKPV A 1.7 121.1nm PKP2V A 1.3 48.0nm
17.	ePKIKP A ePKHKP A ePKP2 A	16 27 27 27 34 27 46	<u>Tonga Islands Region</u> 23.72 S 175.82 W H = 16 07 50 h = 115.1 km MB = 5.1 D = 152.51 Az = 350 (NEIS) traces
17.	eP A LmH B LmV B	17 39 20 18 18.5 23.0	<u>Fox Islands, Aleutian Is.</u> 52.21 N 170.03 W H = 17 27 27.5 h = 40.5 km MB=5.3 MS=5.5 D = 77.51 Az = 359 (NEIS) PV A 1.0s 43.4nm M = 5.4 LmH B 18 0.8/um 5.1 LmV B 16 0.7/um 5.2
17.	eP A	23 36 44	<u>Near Coast of Venezuela</u> 10.81 N 65.44 W H = 23 25 11.9 h = 30 km MB = 4.7 D = 73.51 Az = 40 (NEIS)
17.	eP A LmH B LmV B	24 06 41.5 31.4 32.5	<u>Eastern Gulf of Aden</u> 13.13 N 50.94 E H = 23 57 54.9 h = 33 km MB=5.0 MS=4.8 D = 49.17 Az = 328 (NEIS) PV A 1.9s 37.9nm M = 5.1 LmH B 17 0.7/um 4.7 LmV B 16 1.0/um 5.0

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Day	Phase	h m s	Remarks
18.	iP A	01 09 29	<u>Kodiak Islands Region</u> 57.61 N 151.26 W H = 00 58 11.7 h = 29.3 km MB = 4.7 D = 71.19 Az = 11 (NEIS)
18.	+iP A	07 08 42	<u>Kamchatka</u> 55.28 N 160.56 E H = 06 57 33.3 h = 118 km MB = 5.1 (NEIS) D = 71.1 PV A 1.4s 46.5nm M = 5.1
18.	eP AB ePP BC eS BC eSS BC LmH B LmV B	16 55 39 57 36 17 02 32 05 30 16.4 16.4	<u>Southern Sinkiang Province, China</u> 39.87 N 77.33 E H = 16 47 17.1 h = 33 km MB=5.3 MS=5.8 D = 46.07 Az = 306 (NEIS) PV A 1.3s 26.2nm M = 5.0 LmH B 14 9.3/um 5.9 LmV B 15 16.6/um 6.2
19.	eP A	11 04 34.5	<u>Andreanof Islands, Aleutian Is.</u> 51.19 N 176.44 W H = 10 52 38.9 h = 53 km MB = 5.1 D = 78.31 Az = 355 (NEIS) PV A 1.4s 32.6nm M = 5.2
19.	eP AC ePP C ePcP A eS BC eSS BC LmH C LmV C	23 41 55.5 43 30 44 14 47 56 50 30 24 01.2 06.7	<u>Iran</u> 30.95 N 56.47 E H = 23 34 34.2 h = 31.5 km MB=5.4 MS=5.8 D = 38.52 Az = 314 (NEIS) PV A 2.4s 193.4nm M = 5.5 SH C 19 5.2/um 6.0 LmH C 19.5 16/um 5.9 LmV C 15 6.2/um 5.7
20.	ePn A ePg A eSg A	01 55 50 56 05 56 57	<u>Northern Italy</u> 46.91 N 12.57 E H = 01 54 51.8 h = 33 km D = 3.79 Az = 351 (NEIS)
20.	ePn A ePg A eSg A	01 57 17 57 30 58 23	<u>Northern Italy</u> 46.35 N 13.00 E H = 01 56 07.6 h = 6 km (TRI) D = 3.8

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Day	Phase	h m s	Remarks	
20.	eP ePP	A A	07 35 26 37 04	<u>Tadzhik SSR</u> 39.79 N 69.33 E H = 07 27 38.9 h = 19.8 km MB = 4.9 D = 41.10 Az = 305 (NEIS) PV A 2.0s 42.7nm M = 4.8
20.	-eiP iX iPcP e epP e LmV LmH	A A A A A A C C	09 02 09.5 02 15 02 22 02 27 02 48 02 56 27.6 29.4	<u>Kurile Islands</u> 48.59 N 153.01 E H = 08 50 38.2 h = 140 km MB = 5.8 D = 75.74 Az = 336 (NEIS) h = 160 km PV A 1.6s 527.0nm M = 6.0 XV A 1.5 175.9nm 5.6 LmH B 34 1.4/um LmV B 60 1.2/um
20.	eP	A	13 28 03	<u>New Hebrides Islands</u> 18.76 S 169.27 E H = 13 08 59.2 h = 248.2 km MB = 4.1 D = 143.56 Az = 336 (NEIS)
20.	eP	A	20 07 08	<u>Sicily</u> 38.55 N 15.62 E H = 20 04 16.3 h = 192.9 km MB = 4.7 D = 12.42 Az = 348 (NEIS)
21.	eP epP ePP epPP eSKS eS eSP eFKKP eSS LmH LmV	ABC A ABC A BC BC EC A BC C C	01 13 44 13 56 17 22 17 35 24 15 24 45 26 00 30 57 31 00 56.4 59.8	<u>Volcano Islands Region</u> 25.51 N 143.11 E H = 01 00 32.8 h = 33 km MB=6.2 MS=6.8 D = 92.92 Az = 331 (NEIS) h = 39 km PV A 1.7s 236.1nm M = 6.3 SH B 16 8.6/um 6.7 LmH C 17.5 43.9/um 7.0 LmV C 18 26.7/um 6.7
21.	eP	A	02 17 03	<u>Kashmir - India Border Region</u> 32.84 N 76.63 E H = 02 08 10.0 h = 33 km MB = 5.1 D = 50.02 Az = 311 (NEIS)

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Day	Phase	h m s	Remarks	
21.	ePP	A	04 06 14	<u>San Juan Province, Argentina</u> 31.52 S 67.60 W H = 03 47 32.5 h = 33 km MB = 5.7 D = 107.43 Az = 41 (NEIS) PPV A 1.5s 25.2nm M = 5.7
21.	eP epP LmH LmV	A A C C	05 06 57 07 07 48.6 48.7	<u>Southeast of Shikoku, Japan</u> 30.85 N 132.32 E H = 04 54 31.3 h = 33 km MB = 5.2 D = 83.46 Az = 327 (NEIS) h = 36 km LmH C 19s 1.4/um M = 5.4 LmV C 17 1.2/um 5.4
21.	ePKIKP ePKHKP	A A	05 27 27 27 28.5	<u>Fiji Islands Region</u> 18.18 S 178.55 W H = 05 08 54.4 h = 605.8 km MB = 4.9 D = 146.60 Az = 348 (NEIS) PKHKPV A 1.2s 24.4nm
21.	eP	A	08 36 20.5	<u>Eastern Caucasus</u> 41.95 N 47.92 E H = 08 30 46.3 h = 33 km MB = 4.7 D = 26.32 Az = 302 (NEIS)
21.	eP LmV LmH	A B B	16 51 03 17 22.2 25.3	<u>Off East Coast of Kamchatka</u> 52.93 N 159.80 E H = 16 39 33 h = 33 km MB=5.5 MS=5.0 D = 73.37 Az = 339 (NEIS) PV A 1.2s 118.0nm M = 5.8 LmH B 17 1.7/um 5.4 LmV B 24 2.1/um 5.4
21.	e(PP) LmH LmV	A C C	18 25 07 19 09.3 13.2	<u>Molucca Sea</u> 0.96 S 126.77 E H = 18 06 10.6 h = 20 km MB=5.4 MS=5.1 D = 106.46 Az = 323 (NEIS) LmH C 24s 1.1/um M = 5.3 LmV C 24 0.8/um 5.2

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Day	Phase	h m s	Remarks
21.	LmH B	20 46.5	<u>Hindu Kush Region</u> 36.20 N 68.67 E H = 20 17 13.6 h = 53.1 km MB=4.8 MS=4.8 D = 42.82 Az = 308 (NEIS) LmH B 16s 0.8/um LmV B 18 0.7/um
	LmV B	46.5	
21.	ePKP A	21 33 43	<u>Molucca Sea</u> 0.96 S 126.72 E H = 21 15 01.7 h = 33 km MB = 5.6 (NEIS) D = 113.5
22.	ePKP A	02 20 11	<u>Kermadec Islands Region</u> 27.50 S 178.80 W H = 02 00 41.8 h = 253 km MB = 5.2 D = 155.56 Az = 344 (NEIS) PKPV A 2.0s 51.3nm
22.	eP1 ABC	04 57 35	<u>East China Sea</u> 29.55 N 127.81 E H = 04 45 14.7 h = 33 km MB = 5.5 MS = 5.3 (NEIS) D = 82.3 P2V A 2.4s 332.0nm M = 6.0 LmH C 16 43.7/um 6.9 LmV C 14.5 36.4/um 6.9
	eP2 A	57 40.5	
	e A	57 47	
	ePP2 A	05 00 50	
	eS C	07 52	
	eSS BC	13 16	
	LmH C	38.5	
	LmV C	38.8	
22.	ePKHKP A	11 15 13	<u>South Pacific Cordillera</u> 54.94 S 130.61 W H = 10 55 08.2 h = 33 km MB = 5.1 D = 156.96 Az = 85 (NEIS)
	ePKP2 A	15 32	
22.	eP A	13 43 00	<u>Atlantic - Indian Rise</u> 34.42 S 55.30 E H = 13 29 49.4 h = 33 km MB=5.7 MS=5.1 D = 93.05 Az = 334 (NEIS) PV A 1.8s 57.5nm M = 5.7 LmH C 24 1.1/um 5.3 LmV C 25 0.9/um 5.2
	LmH C	14 23.5	
	LmV C	23.5	

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Day	Phase	h m s	Remarks
22.	eP A	14 17 15	<u>Near East Coast of Kamchatka</u> 52.96 N 159.90 E H = 14 05 45.1 h = 33 km MB = 4.9 D = 73.36 Az = 340 (NEIS) PV A 1.0s 19.7nm M = 5.1
22.	e(Sg) A	20 48 36	<u>Northern Italy</u> 46.57 N 10.40 E H = 20 46 28.8 h = 33 km D = 4.16 Az = 11 (NEIS)
22.	eP A	22 30 14	<u>Off East Coast of Honshu, Japan</u> 39.15 N 143.16 E H = 22 17 59.9 h = 22.9 km MB=5.3 MS=4.8 D = 81.00 Az = 331 (NEIS) h = 36 km PV A 1.5s 55.3nm M = 5.3 LmH C 24 1.3/um 5.2 LmV C 17 0.9/um 5.2
	epP A	30 24	
	LmH C	23 03.4	
	LmV C	09.2	
22.	ePKP2 A	23 15 02	<u>Fiji Region</u> 19.81 S 177.28 W H = 22 56 16.1 h = 574 km D = 148.44 Az = 349 (ISC)
23.	eP AB	11 20 39.5	<u>Jan Mayen Islands Region</u> 72.02 N 0.50 W H = 11 15 44 h = 10 km MB=4.8 MS=4.7 D = 22.13 Az = 159 (NEIS) PV A 1.4s 46.5nm M = 4.7 LmH B 16.5 2.1/um 4.6 LmV B 18 2.8/um 4.9
	eS BC	24 45	
	LmV B	30.0	
	LmH B	30.3	
23.	e(P) A	21 11 17	<u>India - Bangladesh Border Region</u> 23.64 N 92.39 E H = 21 00 25.8 h = 33 km MB = 5.1 D = 66.35 Az = 317 (NEIS)
23.	eP ABC	21 14 21	<u>Off East Coast of Honshu, Japan</u> 39.13 N 143.16 E H = 21 02 07.5 h = 18.7 km MB=5.6 MS=5.9
	e A	14 34	
	ePP A	17 27	

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Day	Phase	h m s	Remarks
cont. 23.	eS BC	21 24 28	D = 81.01 Az = 331 (NEIS)
	ePS B	25 20	PV A 1.8s 162.0nm M = 5.7
	ePPS B	25 40	PV B 8 2.3/um 6.2
	LmH B	53.4	SH B 15.5 3.7/um 6.3
	LmV B	54.6	LmH B 15 16.2/um 6.5 LmV B 15 13.4/um 6.5
23.	eP A	21 21 36	<u>Off East Coast of Honshu, Japan</u> 39.14 N 143.10 E H = 21 09 21.7 h = 23 km MB = 5.4 D = 80.98 Az = 331 (NEIS)
23.	eP ABC	21 26 38	<u>Off East Coast of Honshu, Japan</u> 39.07 N 143.05 E
	ePP B	29 42	H = 21 14 26.7 h = 41 km MB=5.4 MS=6.0
	ePPP B	31 25	D = 81.02 Az = 331 (NEIS)
	eS BC	36 41	PV A 1.4s 60.5nm M = 5.4
	ePS B	37 20	SH B 17.5 6.1/um 6.4
	ePPS B	37 44	LmH B 16 14.5/um 6.4
	LmH B	22 05.6	LmV B 16.5 15.8/um 6.5
	LmV B	05.7	
23.	ePP A	22 19 08	<u>Mariana Islands</u> 18.18 N 145.57 E H = 22 02 06.1 h = 603.6 km MB = 5.3 D = 100.43 Az = 332 (NEIS) PPV A 1.3s 43.7nm M = 5.7
23.	eP A	22 22 49.5	<u>Off East Coast of Honshu, Japan</u> 39.02 N 143.41 E H = 22 10 36.4 h = 32 km MB = 5.1 D = 81.20 Az = 331 (NEIS) h = 50 km PV A 1.2s 30.5nm M = 5.2
	epP A	23 03	
23.	eP A	23 19 39	<u>Off East Coast of Honshu, Japan</u> 39.09 N 143.46 E H = 23 07 22.8 h = 14 km MB = 5.0 (NEIS) D = 81.1

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Day	Phase	h m s	Remarks
24.	ePKP A	16 08 36	<u>South of Fiji Islands</u> 24.94 S 176.03 W
	e A	08 43	H = 15 48 32.2 h = 33 km MB=4.8 MS=5.2
	e A	08 49	D = 153.67 Az = 349 (NEIS)
25.	+iP A	02 13 34	<u>Tyrrhenian Sea</u> 40.41 N 12.94 E H = 02 11 11.3 h = 482 km MB = 4.5 D = 10.28 Az = 355 (NEIS) PV A 0.6s 26.8nm M = 4.9
25.	ePKP A	04 45 02	<u>Loyalty Islands Region</u> 22.02 S 170.91 E H = 04 25 27.7 h = 76 km MB = 5.0 D = 147.15 Az = 335 (NEIS) PKPV A 1.6s 44.0nm
25.	eP1 A	16 26 48.5	<u>Afghanistan - USSR Border Region</u> 38.92 N 70.80 E
	iP2 A	26 50.5	H = 16 18 54.7 h = 33 km MB=5.3 MS=4.7
	LmH B	47.2	D = 42.53 Az = 306 (NEIS)
	LmV B	47.7	P2V A 1.0s 31.8nm M = 5.0 LmH B 13 1.0/um 4.9 LmV B 13 1.1/um 4.9
25.	eP A	18 32 36.5	<u>Off East Coast of Honshu, Japan</u> 39.13 N 143.38 E H = 18 20 21.6 h = 18.1 km MB = 5.0 D = 81.09 Az = 331 (NEIS)
25.	epP A	22 46 30.5	<u>Taiwan</u> 24.18 N 121.69 E H = 22 33 48.1 h = 40.5 km MB=5.2 MS=4.7
	LmH B	23 27.4	D = 83.43 Az = 323 (NEIS)
	LmV B	27.5	LmH B 15s 1.1/um M = 5.4 LmV B 17 1.0/um 5.3
26.	ePKP2 A	01 17 16	<u>South of Tonga Islands</u> 24.59 S 175.90 W
	LmH C	02 31.0	H = 00 57 07.4 h = 33 km MB=4.6 MS=5.0
	LmV C	31.1	D = 153.34 Az = 349 (NEIS) LmH C 21s 0.4/um LmV C 20 0.45/um

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Day	Phase	h m s	Remarks
26.	eP	A 04 10 46.5	<u>Eastern Kazakh SSR</u> 49.88 N 78.14 E H = 04 02 57.7 h = 0 km MB = 4.9 D = 41.23 Az = 298 (NEIS) PV A 0.8s 26.9nm M = 5.0
26.	eP	A 09 52 35	<u>Luzon, Philippine Islands</u> 14.71 N 123.63 E H = 09 39 26.1 h = 33 km MB=5.3 MS=4.3 D = 92.09 Az = 324 (NEIS) LmH B 16s 0.4/um M = 5.0 LmV B 17 0.7/um 5.2
27.	eP	A 06 57 57	<u>South of Honshu, Japan</u> 30.74 N 137.30 E H = 06 42 59.2 h = 471.2 km MB=4.9 (NEIS) D = 85.84 PV A 1.5s 35.2nm M = 4.8
27.	ePKP	A 11 56 59	<u>Fiji Islands Region</u> 17.97 S 178.63 W H = 11 38 21.3 h = 555.3 km MB = 5.3 D = 146.39 Az = 348 (NEIS) PKPV A 1.6s 126.4nm
27.	eP	A 15 20 37	<u>Southern Alaska</u> 60.39 N 153.70 W H = 15 09 51 h = 175 km MB = 5.1 D = 68.69 Az = 10 (NEIS) h = 176 km PV A 1.0s 39.4nm M = 5.1 pPV A 1.6 104.4nm
28.	eiP1	AB 02 53 18	<u>Red Sea</u> 16.66 N 40.28 E H = 02 45 36.7 h = 33 km MB=5.9 MS=6.6 D = 40.96 Az = 332 (NEIS) P1V A 1.9s 310.8nm M = 5.7 P2V A 1.6 1018.0nm 6.3 PPV B 15 12.2/um 6.5 SH B 15.5 42.5/um 7.0 LmH B 14 27.2/um 6.3 LmV B 14 22.1/um 6.3

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Day	Phase	h m s	Remarks
28.	eP	A 11 18 34.5	<u>Norwegian Sea</u> 72.46 N 3.36 E H = 11 13 39 h = 33 km MB = 4.5 D = 22.20 Az = 166 (NEIS) PV A 1.6s 60.4nm M = 4.8
28.	ePKHKP	A 11 39 08	<u>Tonga Islands Region</u> 23.78 S 175.44 W H = 11 19 14 h = 50.4 km MB = 4.8 D = 152.62 Az = 350 (NEIS)
28.	eiP	AB 20 37 22	<u>Iceland</u> 64.60 N 17.29 W H = 20 32 40.8 h = 10 km MB=5.0 MS=5.2 D = 20.59 Az = 119 (NEIS) PV A 1.8s 344.6nm M = 5.4 PV B 9 3.7/um 5.8 PH B 9 2.7/um 5.5 SH B 7 6.1/um 5.7 LmH B 16 4.9/um 5.0 LmV B 15 5.7/um 5.2
29.	ePKP	A 10 39 16	<u>Tonga Islands</u> 18.04 S 173.92 W H = 10 19 42.1 h = 98 km MB = 5.2 D = 147.17 Az = 354 (NEIS)
29.	epPKP	A 39 44	
29.	eP	A 11 59 51	<u>Zaire Republic</u> 0.01 N 29.68 E H = 11 50 38 h = 33 km MB=4.8 MS=5.4 D = 52.74 Az = 346 (NEIS)
29.	LmH	C 12 48.4	<u>Mindanao, Philippine Islands</u> 8.52 N 126.00 E H = 11 55 35.9 h = 53.2 km MB=5.3 MS=5.1 D = 98.43 Az = 324 (NEIS) LmH C 26s 2.0/um M = 5.5 LmV B 16 1.0/um 5.4
29.	LmV	B 13 02.4	
29.	eP	A 16 56 26	<u>Greece</u> 38.44 N 22.30 E H = 16 52 56.7 h = 17.6 km MB = 4.7 D = 14.36 Az = 332 (NEIS) PV A 1.6s 27.5nm M = 4.6 LmH B 13 2.5/um 4.5 LmV B 13 2.8/um

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Day	Phase	h m s	Remarks
29.	eP	A 19 57 22.5	<u>Bonin Islands Region</u> 28.53 N 138.37 E H = 19 45 27.4 h = 529 km MB = 5.2 D = 88.21 Az = 329 (NEIS) h = 583 km pPV A 1.5s 30.2nm
	epP	A 59 28	
	ePP	A 20 00 56	
	LmH	B 41.5	
30.	eP	A 09 14 37	<u>Fox Islands, Aleutian Is.</u> 52.15 N 169.59 W H = 09 02 44.1 h = 38 km MB=5.0 MS=4.5 D = 77.58 Az = 359 (NEIS) PV A 1.2s 28.4nm M = 5.2
30.	ePKIKP	A 10 57 12	<u>New Britain Region</u> 5.07 S 151.77 E H = 10 38 19.5 h = 68 km MB = 5.9 D = 123.68 Az = 331 (NEIS) PFV A 1.8s 33.8/um M = 5.2
	ePP	A 59 15	
30.	ePn	A 13 08 23.5	<u>Czechoslovakia</u> 50.80 N 15.9 E H = 13 07 38 h = 0 km D = 2.7 Az = 268 (ISC)
	ePg	A 08 30	
	eSg	A 09 05.5	
30.	+iP	AB 17 37 40	<u>Southern Italy</u> 40.00 N 15.42 E H = 17 35 08.9 h = 283 km MB = 5.6 D = 10.98 Az = 347 (NEIS) PV A 1.6s 715.0nm M = 5.6 PV B 8 6.9/um 6.9 SH B 7 14.7/um 5.9 LmH B 7 6.7/um LmV B 8 5.7/um
	iS	B 39 40	
	LmH	B 40.9	
	LmV	B 42.7	
30.	eP	A 18 11 27	<u>Southern Italy</u> 40.00 N 15.40 E H = 18 08 51.3 h = 294.8 km MB = 4.4 D = 10.98 Az = 347 (NEIS) PV A 1.0s 31.5nm M = 4.5
30.	ePKP	A 20 27 04.5	<u>Fiji Islands Region</u> 18.10 S 178.25 W H = 20 08 32.2 h = 627.8 km MB = 5.0 D = 146.59 Az = 349 (NEIS) PKFV A 1.2s 24.4nm

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Day	Phase	h m s	Remarks
30.	eP	A 23 31 21	<u>Pakistan</u> 28.97 N 69.48 E H = 23 22 39.3 h = 17 km MB=4.8 MS=4.9 D = 48.06 Az = 314 (NEIS) PV A 1.6s 27.5nm M = 5.1 LmH C 20 1.0/um 4.8
	LmH	C 53.0	
31.	eP	A 03 34 13	<u>Southern Sinkiang Province, China</u> 39.18 N 91.10 E H = 03 24 38.6 h = 3.4 km MB = 4.9 D = 54.86 Az = 310 (NEIS) traces
31.	eP	A 08 06 36	<u>Southern Peru</u> 15.30 S 71.68 W H = 07 53 18.0 h = 158 km MB = 5.9 D = 97.50 Az = 40 (NEIS) PV A 2.0s 179.5nm M = 6.2 PFV A 1.9 129.0nm 5.8 LmH B 19 1.7/um LmV B 18 2.0/um
	ePP	A 10 32	
	iSKS	B 17 04	
	LmV	B 48.9	
	LmH	B 49.0	
31.	ePKP	A 11 13 01	<u>Loyalty Islands Region</u> 22.12 S 169.88 E H = 10 53 20.9 h = 45.1 km MB=4.2 MS=4.4 D = 146.83 Az = 334 (NEIS) PKPV A 1.9s 53.0nm
31.	eP	A 11 54 15	<u>Mindanao, Philippine Islands</u> 8.55 N 126.03 E H = 11 40 40.5 h = 46.6 km MB = 5.3 D = 98.42 Az = 324 (NEIS)
31.	e(Sg)	A 12 12 22	<u>Poland</u> 52.01 N 20.20 E H = 12 09 35.3 h = 81 km (NEIS) D = 5.55

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Appendix

Bulletin der Mikroerdbeben im Gebiet des Vogtlandes
aus der Zeit von August 1962 bis Juni 1981

von

H. Neunhöfer und D. Güth +)

Zusammenfassung

Seit 1962 wurden im Vogtland mehr als 1200 Mikrobeben instrumentell nachgewiesen. Es werden die Bedingungen dieser Beobachtungen kurz beschrieben. Danach werden einige Grundlagen der einheitlichen Behandlung und Darstellung der Ereignisse in Form eines Bulletins diskutiert. Schließlich wird das Bulletin selbst vorgelegt.

Summary

Since 1962 in the Vogtland region more than 1200 microearthquakes has been recorded. Briefly, the observational conditions are described. Then, the fundamentals of an unique treatment and representation of the events as a bulletin are discussed. Finally, the bulletin is given.

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1. Einleitung

In nahezu 20 Jahren seismischer Überwachung ist im Vogtland, einem im Süden der DDR gelegenen Gebiet, das durch das Auftreten von sogenannten Schwarmbeben schon längere Zeit bekannt ist, eine größere Anzahl von Mikrobeben registriert worden. In einigen Arbeiten, so von SCHEID (1965), NEUNHÖFER (1976) und NEUNHÖFER und TITTEL (im Druck), wurden daraus bereits einige wissenschaftliche Schlußfolgerungen gezogen. Die durch MAAZ und NEUNHÖFER (im Druck) vorgestellte Verbesserung der Möglichkeit, nahe Mikrobeben zu orten, hat noch zusätzliche Informationen geliefert. Um nun das Beobachtungsmaterial auch anderen Bearbeitern für deren spezielle Zwecke nutzbar zu machen, haben sich die Autoren entschlossen, ihre Beobachtungsergebnisse nochmals unter generalisierenden Gesichtspunkten zu überarbeiten und in Form eines Bulletins zu veröffentlichen. Es umfaßt den Zeitabschnitt zwischen dem Beginn des größeren Mikrobebenschwarmes von 1962 und dem 30.6.1981.

2. Seismische Stationen und deren Ausrüstung

In der Nähe des Vogtländischen Herdgebietes registriert seit 1956 eine seismische Station, die in Plauen (PLN) aufgestellt ist. Der Erdbebenschwarm von 1962 war der Anlaß, eine noch näher an der Epizentralregion gelegene Registriermöglichkeit zu schaffen. Das erfolgte in der Ortschaft Klingenthal (KLI). Sie wurde später ergänzt durch eine weitere seismische Station in Bad Elster (BDE). Um ganz schwache Mikrobeben im Gebiet des Schwarmes von 1962 nachweisen zu können, wurde schließlich in Eubabrunn (EUB) eine weitere Station installiert, die aber zum Ausschluß von Unruhe nur nachts registriert. Die vier seismischen Stationen überwachen heute das Vogtland bezüglich des Auftretens von Mikrobeben gut, als Ergänzung kann noch die entferntere Hauptstation Moxa (MOX) herangezogen werden.

Vor allem in den ersten Jahren, die das folgende Bulletin umfaßt, waren die Aufzeichnungen in der Nähe des Herdgebietes allein noch nicht für eine detaillierte Bearbeitung ausreichend, so daß entferntere Stationen wie Jena (JEN), Collmburg (CLL) und Sonneberg (SON) unbedingt in die Auswertungen einbezogen

werden mußten. Die relative Lage aller Stationen zum Untersuchungsgebiet zeigt die Abb. 1.

Parallel zum zahlenmäßigen Ausbau des Stationsnetzes im Vogtland ging auch eine Verbesserung der Ausrüstung. Dadurch wurde auch die Nachweisbarkeitsgrenze nach schwächeren Ereignissen hin verschoben. Während zuerst vorwiegend mechanisch-optisch registrierende Seismographen nach Krumbach (K) eingesetzt waren, sind es heute elektromagnetische des Typs VSJ II. Bevorzugt wird nur ein Vertikalseismograph aufgestellt. In Abb. 2 sind die normierten Vergrößerungskurven für die z. Zt. im Vogtland arbeitenden Seismographen dargestellt. Sie sind so abgestimmt, daß sie zwischen 2 und 10 Hz, den vorherrschenden Frequenzen bei Mikrobeben, nahezu maximal vergrößern. Die Vergrößerung an den einzelnen Stationen wurde im Laufe der Zeit wiederholt geändert. Die Tabelle 1 faßt alle während der Berichtszeit verwendeten Vergrößerungen zusammen.

3. Magnitudenbestimmung, Ortung

Die energetische Beurteilung von Erdbeben erfolgt im allgemeinen durch die Angabe der Magnitude. Für größere Erdbeben ist hierfür ein gut fundiertes einheitliches System geschaffen worden, das weltweit in der seismologischen Praxis angewendet wird. Eine Übertragung auf Mikrobeben ist kaum direkt möglich, weil lokale Einflüsse zu stark sind und die Ereignisse nicht weit genug registriert werden können. Um trotzdem auch für nahe Mikrobeben eines bestimmten Untersuchungsgebietes in sich konsistente Magnitudenwerte M angeben zu können, wird von uns die Formel von IIDA (1967)

$$M = \lg A + 1,5 \lg t_{S-P} + 1,2$$

angewendet, mit deren Hilfe auch die Magnitudenangaben der vorliegenden Arbeit gewonnen worden sind. A bedeutet die maximale Amplitude in Mikrometern, t_{S-P} die Differenz der Einsatzzeiten von S- und P-Wellen. Beim Vergleich mehrerer so berechneter Magnituden eines Ereignisses wurden systematische Abweichungen insbesondere für Moxa und Klingenthal beobachtet, deren statistische Verteilung in Abb. 3 dargestellt ist. Daraus folgt, daß für Moxa die berechnete Magnitude im Mittel um etwa

0,6 zu klein ist, für Klingenthal ist sie im Mittel um 0,4 zu groß. Diese mittleren Abweichungen werden als Korrekturen vor der Berechnung der im Bulletin angegebenen mittleren Magnitude berücksichtigt.

Das Epizentrum der Mikrobeben kann bestimmt werden, wenn von mindestens drei Stationen die Werte t_{S-P} bekannt sind. Von MAAZ und NEUNHÖFER (im Druck) ist ein Verfahren beschrieben worden, das dann nach der Maximum-Likelihood-Methode die Epizentralkoordinaten zu berechnen gestattet. Die Genauigkeit beträgt in unserem Falle etwa 3 km. Die Ergebnisse aller Ortungen aus dem Vogtland sind in der genannten Arbeit zusammengefaßt und gedeutet worden.

4. Aufbau des Bulletins

Die instrumentell nachgewiesenen Mikrobeben sind im Bulletin chronologisch aufgeführt und werden innerhalb eines Jahres durchnummeriert. Falls an mindestens einer Station die Differenz t_{S-P} der Einsätze von S- und P-Wellen ausgemessen werden konnte, wurde nach IIDA (1967) eine Magnitude M errechnet und auch angegeben. Die in Klammern folgende Zahl gibt die Anzahl der Stationen an, für die eine Magnitude berechnet werden konnte, die dann in den angegebenen Mittelwert eingegangen sind. Steht die Magnitude selbst in Klammern, so ist mindestens eine der zugrundeliegenden Amplitudenausmessungen ungenau. In der gleichen Zeile folgen nach MAAZ und NEUNHÖFER (1981) errechnete Epizentralkoordinaten, falls an mindestens drei Stationen t_{S-P} zu bestimmen war.

Die Angaben zu den einzelnen Mikrobeben werden durch Auswertungsergebnisse für die einzelnen Stationen fortgesetzt. Dem Stationscode folgt die Einsatzzeit der P-Welle. Wenn der Zeitdienst es erlaubt, ist der Einsatz auf 0,1 Sekunde genau angegeben. Fehlen die Sekundenangaben überhaupt, dann konnte der Einsatz nur zeitlich ungenau ausgemessen werden. In der nächsten Spalte steht t_{S-P} (in Sekunden), gefolgt von der maximalen Doppelamplitude der P- und S-Welle. Sie ist angegeben in mm Ausschlag im Seismogramm. Klammern um Amplitudenangaben geben Ungenauigkeit an, Klammern allein bedeuten, daß die Registrierung übersteuert ist

und nicht ausgemessen werden kann. Die wahre Bodenbewegung kann durch Berücksichtigung der angegebenen Instrumentenvergrößerung und -charakteristik errechnet werden. Da die Perioden der ankommenden Wellen zwischen 0,2 und 0,1 s liegen, kann ohne wesentlichen Fehler mit der maximalen Vergrößerung gerechnet werden.

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Tabelle 1

a) Vergrößerung der Seismographen im Vogtländischen Stationsnetz

KLI	Vmax	EDE	Vmax
18.9.62 - 29.11.67	800 ⁺⁺ (K)	19.3.73 - 29.9.75	1610 ⁺⁺)
29.11.67 - 9. 1.70	1200	29.9.75 - 28.6.77	6300
9.1.70 - 4. 9.70	1325	28.6.77 - 23.8.79	15900
4.9.70 - 22. 6.71	2650	23.8.79 -	53000
22.6.71 - 3. 9.71	1300	PLN	
3.9.71 - 5. 3.73	2500	25.10.56 - 13.10.60	4000 (K)
5.3.71 -	4200	13.10.60 - 18. 9.69	2000 (K)
EUB		18. 9.69 -	23000
30.12.76 - 28.6.77	100000		
28. 6.77 -	49000		

b) Vergrößerung der benutzten Seismographen benachbarter Stationen

	Vmax
MOX	300 000
	100 000 +)
CLL	29 000 (Benioff-Seismograph)
JEN	2 000 (Wiechert-15-t-Seismograph) ++)
SON	2 060 (K)

+) Amplitudenwerte sind mit "+" versehen

++) Horizontalseismograph

Tabelle 2

Koordinaten der verwendeten Stationen

Station	geographische Länge	Breite
BDE	12.237 °E	50.287 °N
CLL	13.004	51.309
EUB	12.390	50.301
JEN	11.599	50.926
KLI	12.470	50.371
MOX	11.616	50.646
PLN	12.164	50.486
SON	11.193	50.378

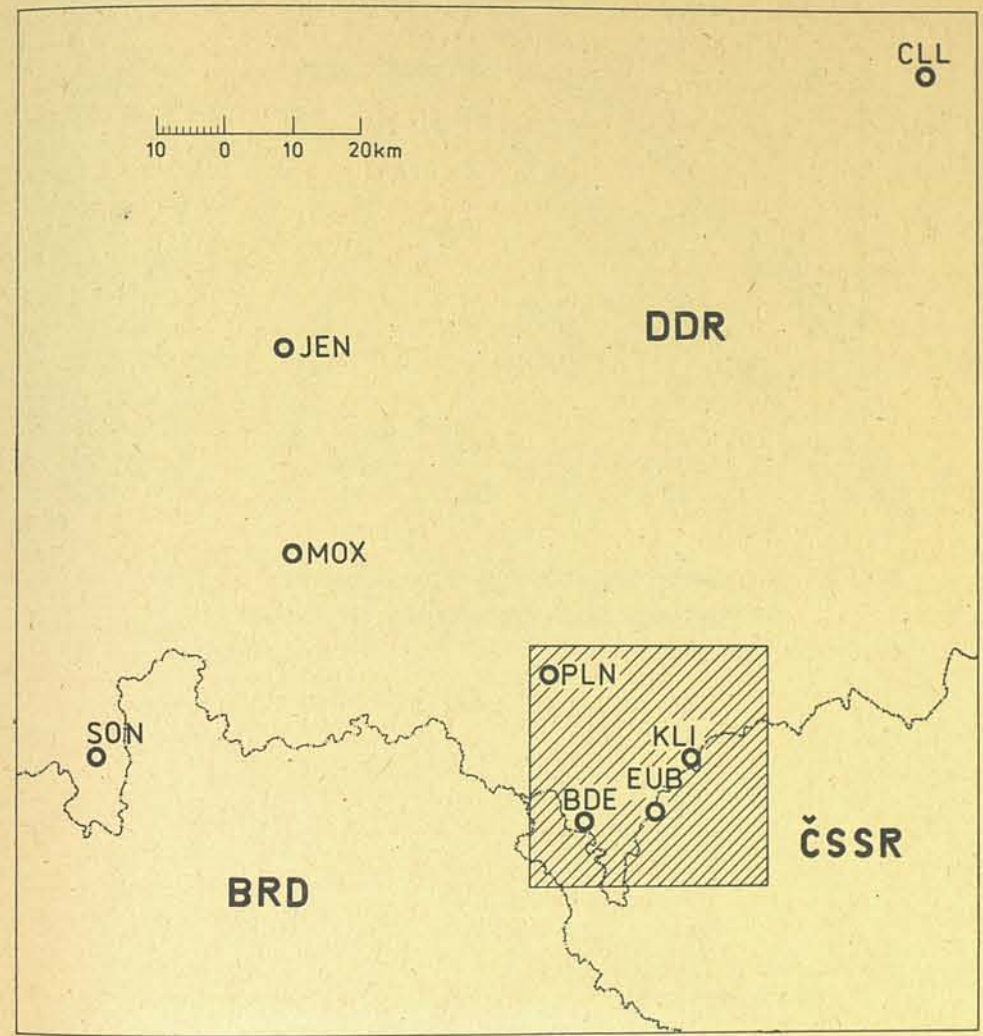


Abb. 1 Lage der verwendeten seismischen Stationen relativ zum Untersuchungsgebiet

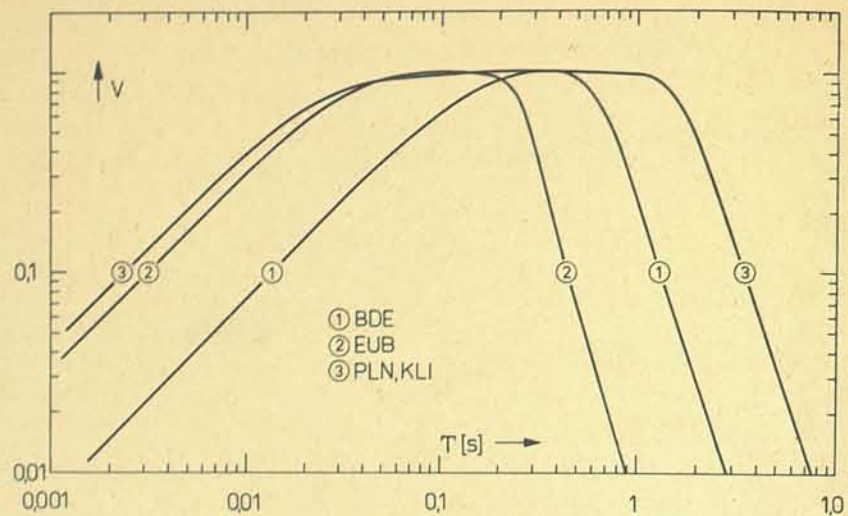


Abb. 2 Normierte Vergrößerungskurven für die im Vogtland z. Z. arbeitenden Stationen

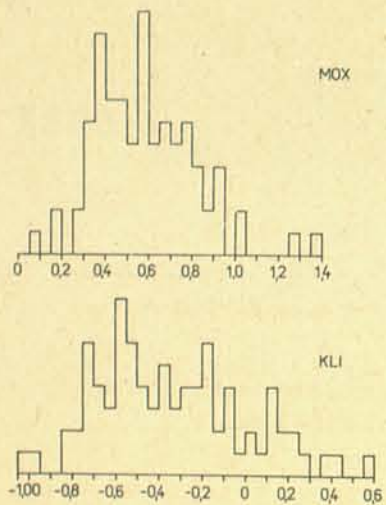


Abb. 3 Abweichungen der berechneten Magnituden vom Mittel für MOX und KLI

1962

22.8.62 (1) M = 1.8(1) PLN 10 38 CLL 38 55.7 14.3 2.4 3.8	1.4 3.8	1.9.62 (13) M = 1.6(1) PLN 05 43 CLL 43 53.2 14.3 1.5 2.5	0.6 2.5
23.8.62 (2) PLN 14 39	0.5	1.9.62 (14) PLN 14 33	0.5
23.8.62 (3) PLN 14 42	0.5	1.9.62 (15) M = 1.4(1) PLN 14 41 CLL 41 27.7 14.4 1.0 1.7	0.8 1.7
23.8.62 (4) PLN 17 23	0.5	1.9.62 (16) M = 1.5(1) PLN 21 45 CLL 45 12.4 14.3 1.3 2.0	0.5 2.0
24.8.62 (5) PLN 09 05	1.2	1.9.62 (17) M = 1.9(1) PLN 22 08 CLL 08 38.1 14.3 3.1 5.0	1.4 5.0
25.8.62 (6) M = 1.7(1) PLN 20 13 CLL 13 15.5 14.4 2.0 3.0	0.7 3.0	1.9.62 (18) PLN 22 13	0.3
25.8.62 (7) PLN 20 42	0.5	2.9.62 (19) M = 1.4(1) PLN 12 44 CLL 44 44.0 14.6 1.1 1.8	0.5 1.8
31.8.62 (9) PLN 10 24	0.3	2.9.62 (20) M = 1.7(1) PLN 16 11 CLL 11 49.9 14.4 1.7 3.0	0.7 3.0
31.8.62 (10) PLN 13 27	0.5	2.9.62 (21) PLN 18 08	0.3
31.8.62 (11) PLN 20 39 CLL 39	0.4 1.0	3.9.62 (22) M = 1.4(1) PLN 03 36 CLL 36 54.7 14.7 0.8 1.5	0.6 1.5
1.9.62 (12) M = 1.5(1) PLN 03 45 CLL 45 58.5 14.3 1.2 1.9	0.5 1.9		

3.9.62 (23)
M = 1.5(1)
PLN 04 54
CLL 54 46.7 14.7 1.2 2.0

3.9.62 (24)
PLN 09 25 0.3

3.9.62 (25)
M = 1.5(1)
CLL 09 43 15.7 14.8 1.4 2.2

3.9.62 (26)
PLN 10 08 0.5

3.9.62 (27)
PLN 11 59 0.6

3.9.62 (28)
M = 1.6(1)
PLN 22 15
CLL 15 50.2 14.7 2.1 2.5

4.9.62 (29)
M = 1.4(1)
PLN 04 20
CLL 20 39.9 14.4 1.0 1.5

4.9.62 (30)
M = 1.8(1)
PLN 04 20
CLL 21 07.3 14.5 3.1 4.2

4.9.62 (31)
PLN 08 57 0.4

4.9.62 (32)
PLN 09 56 0.5

4.9.62 (33)
PLN 10 06 0.4

4.9.62 (34)
PLN 10 07 0.3

4.9.62 (35)
PLN 11 12 0.4

4.9.62 (36)
M = 1.6(1)
PLN 16 12
CLL 12 56.5 14.4 2.6 2.0

4.9.62 (37)
PLN 16 21 0.3

4.9.62 (38)
M = 1.6(1)
PLN 17 55
CLL 55 24.6 14.4 2.3 2.5

4.9.62 (39)
PLN 17 55 0.7

4.9.62 (40)
M = 1.5(1)
PLN 22 41
CLL 41 57.6 14.6 2.0 1.9

5.9.62 (41)
M = 1.3(1)
PLN 02 29
CLL 29 53.6 14.8 1.3 1.2

5.9.62 (42)
M = 1.4(1)
PLN 02 46
CLL 46 55.1 14.8 1.5 1.5

5.9.62 (43)
M = 1.8(1)
PLN 04 52
CLL 52 31.7 13.9 2.7 4.5

5.9.62 (44)
M = 1.4(1)
PLN 07 37
CLL 37 39.0 14.4 1.3 1.6

5.9.62 (45)
M = 1.3(1)
CLL 08 53 52.8 14.5 1.2 1.4

5.9.62 (46)
M = 1.8(1)
CLL 09 04 59.2 14.1 4.5 3.5

5.9.62 (47)
M = 1.5(1)
CLL 09 05 58.3 14.1 2.0 1.3

5.9.62 (48)
M = 1.6(1)
CLL 15 51 57.5 14.4 2.9 2.0

6.9.62 (49)
M = 1.9(1)
CLL 02 41 07.0 14.4 2.5 5.0

6.9.62 (50)
M = 1.5(1)
CLL 22 56 53.3 14.4 1.2 2.0

7.9.62 (51)
M = 1.5(1)
CLL 09 27 59.9 14.8 1.5 2.2

7.9.62 (52)
PLN 11 20 0.4

7.9.62 (53)
PLN 13 18 0.6

7.9.62 (54)
PLN 13 42 0.4

7.9.62 (55)
M = 1.5(1)
PLN 19 31
CLL 31 14.8 14.5 1.9 2.1

7.9.62 (56)
PLN 19 31 0.5

9.9.62 (57)
M = 1.5(1)
PLN 03 49
CLL 49 46.2 14.6 1.1 2.1

9.9.62 (58)
PLN 20 26 0.4

10.9.62 (59)
PLN 10 51 2.5

10.9.62 (60)
PLN 15 11 0.3

10.9.62 (61)
M = 1.3(1)
PLN 16 14 3.3 0.2 0.8

10.9.62 (62)
M = 1.7(2)
PLN 19 42 3.15 0.2 1.2
JEN 42 1.3
CLL 42 50.2 14.2 3.6 4.6

10.9.62 (63)
M = 1.4(1)
PLN 22 43 0.6
CLL 43 33.8 14.5 1.5 1.8

10.9.62 (64)
M = 1.4(1)
PLN 23 10 0.3
CLL 10 21.1 14.4 0.9 1.5

11.9.62 (65)
M = 1.4(1)
PLN 05 18 0.4
CLL 18 48.0 14.4 1.1 1.6

12.9.62 (66)
M = 2.1(2)
PLN 17 11 2.8
SON 11 0.6
JEN 11 35.0 10.7 0.4 1.3
CLL 11 39.3 14.6 6.0 5.0

12.9.62 (67)
M = 1.4(1)
PLN 17 30 1.1
CLL 30 18.4 14.6 1.9 1.6

12.9.62 (68)
M = 1.1(1)
PLN 23 28 0.5
CLL 28 21.8 14.6 1.0 0.8

13.9.62 (69)
M = 2.1(4) 50.289 N 12.358 E
PLN 01 43 3.15 0.4 2.6
SON 43 56.3 10.2 0.3 0.6
JEN 43 57.0 10.8 0.5 1.8
CLL 44 01.5 14.7 9.0 11.0

13.9.62 (70)
 PIN 02 40 3.15 0.4 1.4
 CLL 40 45.4 3.2

13.9.62 (71)
 M = 1.4(1)
 PIN 03 11 1.0
 CLL 11 57.9 14.6 1.8 1.2

13.9.62 (72)
 M = 1.4(2)
 PIN 03 44 3.3 0.3 0.7
 CLL 44 44.3 14.3 2.3 2.6

13.9.62 (73)
 M = 1.5(1)
 PIN 04 45 0.8
 CLL 45 25.7 14.5 2.0 1.3

13.9.62 (74)
 PIN 04 52 0.5
 CLL 52 40.5 1.1

13.9.62 (75)
 PIN 05 00 0.4
 CLL 00 41.6 1.2

13.9.62 (76)
 PIN 05 30 0.5

13.9.62 (77)
 M = 2.3(4) 50.287 N 12.375 E
 PIN 06 31 3.3 1.4 4.3
 SON 31 56.0 10.5 0.4 1.9
 JEN 31 56.9 10.7 0.9 1.8
 CLL 32 01.1 14.8 18.5 11.5

13.9.62 (78)
 M = 1.6(1)
 PIN 06 52 0.9
 CLL 52 45.4 14.7 2.0 2.7

13.9.62 (79)
 M = 1.6(1)
 CLL 08 58 53.4 14.7 2.3 1.7

13.9.62 (80)
 M = 1.3(1)
 PIN 14 01 0.4
 CLL 02 11.6 13.8 1.5 1.5

13.9.62 (81)
 M = 1.4(1)
 PIN 15 13 0.6
 CLL 13 34.2 14.5 1.7 1.6

13.9.62 (82)
 PIN 16 38 0.6

13.9.62 (83)
 M = 1.3(2)
 PIN 20 16 3.3 0.2 0.5
 CLL 16 14.6 2.4 1.5

13.9.62 (84)
 PIN 20 37 0.5

13.9.62 (85)
 PIN 20 39 0.6

13.9.62 (86)
 PIN 23 09 0.5

14.9.62 (87)
 PIN 01 00 0.4

14.9.62 (88)
 M = 1.5(1)
 PIN 01 08 0.8
 CLL 08 14.6 2.0 1.6

14.9.62 (89)
 M = 1.6(1)
 PIN 03 57 1.6
 CLL 57 14.2 2.7 1.9

14.9.62 (90)
 PIN 05 33 0.3

14.9.62 (91)
 M = 1.7(1)
 PIN 05 46 0.6
 CLL 46 14.2 3.7 2.5

14.9.62 (92)
 PIN 06 14 0.7
 CLL 14 0.9 0.5

14.9.62 (93)
 PIN 09 47 0.3

14.9.62 (94)
 PIN 10 46 0.3

14.9.62 (95)
 PIN 10 49 0.4

14.9.62 (96)
 M = 1.3(1)
 PIN 17 14 0.5
 CLL 15 00.5 14.6 1.4 1.4

14.9.62 (97)
 M = 1.4(1)
 PIN 23 41 0.4
 CLL 41 27.6 14.2 1.7 0.7

14.9.62 (98)
 M = 2.1(4) 50.302 N 12.369 E
 PIN 23 48 3.15 0.8 2.7
 SON 48 51.9 10.4 0.3 1.1
 JEN 48 52.6 10.5 0.4 1.3
 CLL 48 56.7 14.6 7.0 5.5

15.9.62 (99)
 PIN 00 05 0.4

15.9.62 (100)
 M = 1.3(2)
 PIN 04 27 3.4 0.4 0.7
 CLL 28 02.1 14.6 1.6 1.5

15.9.62 (101)
 PIN 04 28 0.4

15.9.62 (102)
 M = 1.8(2)
 PIN 04 29 3.3 0.2 2.6
 JEN 29 0.9
 SON 29 1.4
 CLL 29 49.3 14.8 4.5 3.5

15.9.62 (103)
 PIN 04 29 1.1

15.9.62 (104)
 M = 1.7(2)
 PIN 04 31 3.3 0.2 1.4
 CLL 31 43.8 14.5 1.8 1.6

15.9.62 (105)
 M = 1.2(1)
 PIN 04 32 0.7
 CLL 32 49.1 14.9 1.1 0.8

15.9.62 (106)
 PIN 04 38 0.4

15.9.62 (107)
 M = 2.0(2)
 PIN 06 45 3.2 1.2 2.6
 CLL 45 53.6 14.7 8.9 7.1

15.9.62 (108)
 M = 1.7(1)
 PIN 09 22 1.0
 CLL 22 13.5 14.7 3.0 1.9

15.9.62 (109)
 M = 1.5(1)
 PIN 09 53 0.9
 CLL 54 05.1 14.5 1.3 2.1

15.9.62 (110)
 M = 1.7(1)
 PIN 09 59 0.3
 CLL 59 17.3 13.3 2.3 4.0

15.9.62 (111)
 M = 1.5(1)
 PIN 12 07 1.0
 CLL 07 17.3 14.4 1.4 2.1

15.9.62 (112)
 M = 1.4(1)
 PIN 19 41 0.8
 CLL 41 31.3 14.6 1.5 1.7

16.9.62 (113)
 M = 1.9(3) 50.311 N 12.365 E
 PIN 03 19 3.1 0.3 2.0
 SON 19 1.4
 JEN 19 17.3 10.6 1.1
 CLL 19 21.4 14.3 3.9 4.8

16.9.62 (114)
PLN 04 16 0.3

16.9.62 (115)
M = 1.8(1)
PLN 06 03 0.5
JEN 03 1.1
CLL 03 35.8 14.7 4.5 2.8

17.9.62 (116)
M = 1.9(1)
CLL 13 35 27.1 14.7 4.0 5.1

17.9.62 (117)
M = 1.9(1)
CLL 13 48 32.9 14.0 3.6 5.5

17.9.62 (118)
M = 2.2(1)
JEN 14 07
CLL 07 04.0 14.6 10.0 4.3

17.9.62 (119)
M = 1.6(1)
CLL 14 27 40.7 14.6 2.4 1.5

17.9.62 (120)
M = 1.8(1)
JEN 14 41
CLL 41 55.1 14.2 4.5 3.0

17.9.62 (121)
M = 2.0(1)
JEN 16 15
CLL 15 29.0 14.7 4.1 5.8

17.9.62 (122)
M = 1.6(1)
CLL 16 29 38.8 14.9 1.9 2.8

17.9.62 (123)
M = 1.3(1)
JEN 16 44
CLL 44 25.8 14.3 6.0 3.2

17.9.62 (124)
M = 1.6(1)
CLL 19 24 19.8 14.7 2.3 1.2

17.9.62 (125)
M = 1.5(1)
JEN 20 25
CLL 25 30.9 14.3 2.0 1.0

17.9.62 (126)
M = 2.7(3) 50.295 N 12.358 E
SON 22 18 54.6 10.3 0.6 3.8
JEN 18 56.0 10.4 1.1 4.9
CLL 18 59.5 14.7 32.0 21.5

17.9.62 (127)
M = 1.5(1)
CLL 22 31 35.4 14.6 1.8 2.0

17.9.62 (128)
M = 1.6(1)
CLL 23 26 08.4 14.6 2.0 2.3

17.9.62 (129)
M = 1.3(1)
CLL 23 53 46.8 14.9 0.6 1.2

18.9.62 (130)
M = 1.5(1)
CLL 00 01 42.8 14.3 1.2 2.3

18.9.62 (131)
M = 1.6(1)
CLL 00 15 23.8 14.7 1.8 2.6

18.9.62 (132)
M = 2.1(2)
SON 00 16 0.6
JEN 16 30.2 10.6 0.3 1.6
CLL 16 33.1 14.6 5.5 4.0

18.9.62 (133)
M = 2.2(3) 50.296 N 12.375 E
SON 00 30 02.9 10.4 1.4
JEN 30 04.7 10.5 0.3 1.5
CLL 30 08.4 14.6 3.5 4.5

18.9.62 (134)
M = 2.2(2)
SON 01 17 0.8
JEN 17 14.0 10.6 0.3 1.6
CLL 17 17.0 14.5 9.0 6.0

18.9.62 (135)
M = 1.7(1)
CLL 01 37 34.0 15.3 2.5 3.2

18.9.62 (136)
M = 1.4(1)
CLL 02 26 38.9 14.3 1.8 1.5

18.9.62 (137)
M = 1.5(1)
CLL 04 07 28.0 14.8 1.9 2.2

18.9.62 (138)
M = 1.9(1)
CLL 04 14 09.1 14.8 2.5 5.0

18.9.62 (139)
M = 1.4(1)
CLL 04 31 53.3 14.2 1.6 1.0

18.9.62 (140)
M = 1.4(1)
CLL 06 07 08.5 14.6 0.7 1.5

18.9.62 (141)
M = 1.3(1)
CLL 06 14 01.5 14.8 0.5 1.3

18.9.62 (142)
M = 1.7(1)
CLL 07 19 20.6 15.0 1.5 2.9

18.9.62 (143)
M = 2.8(3) 50.276 N 12.329 E
SON 07 42 09.9 10.3 0.6 4.6
JEN 42 11.0 10.2 1.4 3.9
CLL 42 15.2 15.2 12.5 35.8

18.9.62 (144)
M = 2.4(4) 50.287 N 12.384 E
PLN 10 19 3.15 1.2 4.5
SON 19 49.2 10.6 2.4
JEN 19 50.5 10.9 1.3 4.5
CLL 19 53.3 14.8 16.0 9.5

18.9.62 (145)
M = 1.5(1)
PLN 10 39 0.8
CLL 39 44.4 14.5 2.0 1.4

18.9.62 (146)
PLN 10 41 0.8

18.9.62 (147)
M = 2.0(2)
PLN 12 44 3.15 0.4 3.5
CLL 44 47.4 14.5 3.7 8.5

18.9.62 (148)
PLN 13 36 0.7

18.9.62 (149)
M = 2.2(3) 50.280 N 12.332 E
PLN 14 48 3.25 0.3 3.5
SON 48 1.5
JEN 48 32.0 10.8 0.9 1.5
CLL 48 35.4 14.8 8.0 11.0

18.9.62 (150)
M = 1.8(2)
PLN 15 28 3.3 0.3 1.6
CLL 29 09.8 14.8 2.3 6.0

18.9.62 (151)
M = 1.9(2)
KLI 16 16 1.15 0.8 12.2
PLN 16 0.7
CLL 17 06.7 15.0 2.0 5.5

18.9.62 (152)
KLI 16 25 1.5

18.9.62 (153)
M = 1.7(2)
KLI 16 26 1.2 1.5 18.0
PLN 26 0.4
CLL 26 16.5 14.9 1.6 1.0

18.9.62 (154)
KLI 16 44 1.2

18.9.62 (155)
KLI 16 46 1.4

18.9.62 (156)
KLI 16 47 0.9

18.9.62 (157)
KLI 16 56 4.0

18.9.62 (158) KLI 16 57	1.7	18.9.62 (171) KLI 19 03	1.1
18.9.62 (159) KLI 17 05	1.2	18.9.62 (172) KLI 19 25	1.8
18.9.62 (160) M = 1.6(1) KLI 17 20	1.2 0.6 7.0	18.9.62 (173) KLI 19 27	1.1
18.9.62 (161) KLI 17 21	2.1	18.9.62 (174) KLI 19 28	1.3
18.9.62 (162) KLI 17 23	1.9	18.9.62 (175) KLI 19 38	1.2
18.9.62 (163) KLI 17 30	1.4	18.9.62 (176) KLI 20 04	1.8
18.9.62 (164) KLI 17 30	1.3	18.9.62 (177) KLI 20 19	1.8
18.9.62 (165) M = 1.7(2) KLI 17 56 PIN 56 CLL 56 16.5	1.25 1.0 14.0 0.7 2.5	18.9.62 (178) KLI 20 20	1.4
18.9.62 (166) KLI 17 56	1.9	18.9.62 (179) KLI 20 23	2.2
18.9.62 (167) KLI 17 58	6.2	18.9.62 (180) M = 1.6(1) KLI 20 41	1.15 0.5 8.0
18.9.62 (168) M = 1.4(1) KLI 18 03 PIN 03 CLL 03	1.12 1.5 5.0 0.4 0.9	18.9.62 (181) KLI 20 43	4.8
18.9.62 (169) KLI 18 06	2.9	18.9.62 (182) KLI 20 47	2.4
18.9.62 (170) M = 1.6(1) KLI 18 13	1.1 0.7 8.0	18.9.62 (183) KLI 21 56	1.9
		18.9.62 (184) KLI 22 22	2.3
		18.9.62 (185) KLI 22 23	4.9

18.9.62 (186) KLI 22 23	1.7	19.9.62 (198) KLI 00 40	1.5
18.9.62 (187) KLI 22 23	3.6	19.9.62 (199) M = 1.6(1) KLI 01 02 PIN 02 CLL 02 57.8	1.2 1.7 8.2 0.5 2.0
18.9.62 (188) KLI 22 45	1.3	19.9.62 (200) KLI 01 02	5.8
18.9.62 (189) KLI 22 55	1.9	19.9.62 (201) KLI 01 02	3.1
18.9.62 (190) M = 1.5(1) KLI 23 09	1.15 0.5 5.9	19.9.62 (202) KLI 01 03	2.1
18.9.62 (191) KLI 23 26	2.6	19.9.62 (203) KLI 01 03	1.4
18.9.62 (192) KLI 23 45	1.5	19.9.62 (204) M = 1.7(2) KLI 01 04 PIN 04 CLL 04 39.9	1.2 1.0 20.0 0.8 14.6 1.0 1.7
18.9.62 (193) M = 1.9(3) 50.312 N 12.401 E KLI 23 59 PIN 59 SON 59 JEN 59 CLL 59 15.6 14.4	1.15 2.5 25.0 3.3 0.3 1.7 0.9 1.1 2.0 6.2	19.9.62 (205) KLI 01 05	2.9
19.9.62 (194) KLI 00 04	1.4	19.9.62 (206) KLI 01 05	1.6
19.9.62 (195) M = 2.0(3) 50.312 N 12.401 E KLI 00 06 PIN 06 SON 06 JEN 06 CLL 06 53.3 14.4	1.15 0.9 17.0 3.3 0.4 1.3 0.9 0.9 1.7 3.5	19.9.62 (207) KLI 01 12	2.6
19.9.62 (196) KLI 00 07	3.9	19.9.62 (208) KLI 01 14	1.3
19.9.62 (197) KLI 00 36	1.0	19.9.62 (209) KLI 01 14	1.7
		19.9.62 (210) KLI 01 14	1.5

19.9.62 (211) KLI 01 14	0.7	19.9.62 (225) KLI 02 57	6.0
19.9.62 (212) KLI 01 14	1.4	19.9.62 (226) KLI 03 04	1.3
19.9.62 (213) KLI 01 14	1.4	19.9.62 (227) M = 1.6(2) KLI 03 06	1.2 0.6 11.0
19.9.62 (214) KLI 01 15	6.5	PLN 06	0.4
		CLL 07 06.9	14.7 1.5 1.0
19.9.62 (215) KLI 01 15	2.3	19.9.62 (228) KLI 03 12	3.0
19.9.62 (216) KLI 02 02	4.5	19.9.62 (229) M = 1.6(1) KLI 03 13	1.1 0.4 7.9
		PLN 13	0.4
		CLL 13 23.7	1.0
19.9.62 (217) M = 1.5(1) KLI 02 03	1.15 0.7 6.1	19.9.62 (230) KLI 03 13	2.0
PLN 03	0.6		
CLL 03 59.9	1.0		
19.9.62 (218) M = 1.3(1) KLI 02 04	1.15 0.4 3.8	19.9.62 (231) M = 1.5(1) KLI 03 29	1.1 0.5 6.9
19.9.62 (219) KLI 02 06	1.6	19.9.62 (232) M = 1.2(1) KLI 04 31	1.05 0.6 3.5
19.9.62 (220) KLI 02 07	6.6	19.9.62 (233) KLI 04 51	1.4
PLN 07	0.6		
19.9.62 (221) KLI 02 07	3.6	19.9.62 (234) M = 1.3(1) KLI 04 56	1.05 0.6 5.1
19.9.62 (222) KLI 02 08	2.1	19.9.62 (235) KLI 04 57	0.9
19.9.62 (223) KLI 02 09	2.0	19.9.62 (236) KLI 05 04	2.1
19.9.62 (224) KLI 02 50	1.6	19.9.62 (237) KLI 05 14	1.2

19.9.62 (238) KLI 06 28	2.5	19.9.62 (252) KLI 12 32	1.6
19.9.62 (239) KLI 06 42	1.7	19.9.62 (253) KLI 12 36	1.4
19.9.62 (240) KLI 07 59	3.8	19.9.62 (254) KLI 12 36	2.1
19.9.62 (241) KLI 08 02	1.0	19.9.62 (255) PIN 15 38	0.5
PLN 02	0.5		
19.9.62 (242) KLI 08 05	1.7	19.9.62 (256) M = 1.2(1) PIN 16 45	0.9
		CLL 45 14.9 14.8 0.6	1.1
19.9.62 (243) KLI 08 16	3.8	19.9.62 (257) KLI 17 25	2.6
19.9.62 (244) PIN 09 18	0.8 1.9	19.9.62 (258) KLI 18 17	2.2
19.9.62 (245) KLI 09 26	1.4	19.9.62 (259) M = 1.5(2) KLI 18 47	1.1 1.4 8.2
		PIN 48	0.5
19.9.62 (246) M = 1.4(1) KLI 09 26	1.05 0.6 6.6	CLL 48 09.3 14.3 0.5	1.6
19.9.62 (247) KLI 09 28	2.3	19.9.62 (260) KLI 19 17	1.0
19.9.62 (248) KLI 10 13	2.5	19.9.62 (261) M = 1.2(1) KLI 19 24	1.15 0.9 3.0
		PLN 24	0.5
		CLL 24	1.3
19.9.62 (249) KLI 11 09	2.6	19.9.62 (262) KLI 19 40	1.9
PLN 09	1.4		
19.9.62 (250) M = 1.1 KLI 11 59	1.1 0.6 2.7	19.9.62 (263) KLI 20 35	1.3
19.9.62 (251) KLI 12 01	2.8	19.9.62 (264) M = 1.6(2) KLI 20 58	1.1 0.4 11.0
		PIN 58	0.6
		CLL 58 41.3 16.4 1.8 2.4	2.4

19.9.62 (265) KLI 22 29	1.4	20.9.62 (277) KLI 02 48	3.2
19.9.62 (266) M = 1.5(1) KLI 22 43 PLN 43 CLL 43 29.1 14.6 1.2 1.0	4.2 0.5 1.0	20.9.62 (278) M = 1.6(1) KLI 02 50	1.1 0.8 9.6
19.9.62 (267) M = 2.5(5) 50.310 N 12.386 E KLI 23 16 PLN 16 SON 16 21.1 10.2 0.6 3.6 JEN 16 21.5 10.8 1.3 4.5 CLL 16 25.6 14.6 22.5 23.0		20.9.62 (279) KLI 04 40	1.1
		20.9.62 (280) KLI 05 08	1.4
		20.9.62 (281) KLI 05 08	2.6
19.9.62 (268) KLI 23 20	3.7	20.9.62 (282) KLI 05 09	1.6
20.9.62 (269) M = 1.6(3) 50.308 N 12.401 E KLI 00 39 PLN 40 CLL 40 13.0 14.6 2.5 2.5		20.9.62 (283) M = 1.5(1) PIN 09 35 CLL 36 00.4 14.3 1.9 2.3	0.6 2.3
20.9.62 (270) KLI 01 15	1.7	20.9.62 (284) KLI 16 20	2.7
20.9.62 (271) KLI 02 02	2.6	20.9.62 (285) KLI 18 35	1.9
20.9.62 (272) KLI 02 16	1.8	20.9.62 (286) KLI 19 25	3.0
20.9.62 (273) KLI 02 31	1.4	20.9.62 (287) M = 1.6(1) KLI 19 28 PLN 28 CLL 29	1.2 0.4 7.2 0.5 1.0
20.9.62 (274) KLI 02 42	1.0		
20.9.62 (275) KLI 02 46	2.0	20.9.62 (288) KLI 19 31	2.8
20.9.62 (276) KLI 02 47	5.2	20.9.62 (289) KLI 22 01	3.5

21.9.62 (290) KLI 00 43	1.4	21.9.62 (304) KLI 02 28	1.3
21.9.62 (291) KLI 01 00	2.0	21.9.62 (305) KLI 02 29	3.8
21.9.62 (292) KLI 01 03	1.2	21.9.62 (306) M = 1.5(1) KLI 02 29	1.2 0.4 5.8
21.9.62 (293) KLI 01 08	1.0	21.9.62 (307) KLI 02 54	2.1
21.9.62 (294) KLI 01 22	3.6	21.9.62 (308) KLI 03 38	3.7
21.9.62 (295) KLI 01 28	5.0	21.9.62 (309) KLI 03 42	2.2
21.9.62 (296) KLI 01 36	1.7	21.9.62 (310) KLI 03 45	3.0
21.9.62 (297) KLI 01 40	2.7	21.9.62 (311) KLI 03 56	2.0
21.9.62 (298) KLI 01 43	1.5	21.9.62 (312) M = 1.2(1) KLI 04 04	1.15 0.4 3.3
21.9.62 (299) M = 2.2(2) KLI 02 12 PLN 12 SON 12 JEN 12 CLL 13 01.9 14.5 6.0 9.2	1.2 2.0 39.9 2.5 1.6 0.9 9.2	21.9.62 (313) KLI 04 16	1.0
21.9.62 (300) KLI 02 12	3.0	21.9.62 (314) M = 1.6(3) 50.318 N 12.371 E KLI 04 19 PLN 19 SON 19 JEN 19 CLL 19 17.7 14.5 3.5 4.0	1.2 1.2 38.0 3.0 0.2 0.3 1.0 1.3 4.0
21.9.62 (301) KLI 02 20	1.8	21.9.62 (315) KLI 04 19	1.5
21.9.62 (302) KLI 02 24	2.5	21.9.62 (316) KLI 04 25	1.2
21.9.62 (303) KLI 02 24	2.5		

21.9.62 (317)
KLI 05 30 3.2

21.9.62 (318)
KLI 05 48 2.5

21.9.62 (319)
M = 2.4(5) 50.312 N 12.377 E
KLI 05 50 1.05 4.5 40.5
PLN 50 3.1 0.8 4.6
SON 50 53.4 10.3 0.4 2.3
JEN 50 54.3 10.4 0.7 2.5
CLL 50 58.3 14.8 10.5 22.6

21.9.62 (320)
KLI 06 15 1.5

21.9.62 (321)
M = 1.6(1)
CLL 08 36 57.6 14.8 1.8 2.3

21.9.62 (322)
KLI 09 39 0.8

21.9.62 (323)
M = 1.8(4) 50.309 N 12.400 E
KLI 09 47 1.1 4.0 18.0
PLN 47 3.2 0.2 0.8
SON 47 10.0 10.5 1.1
CLL 47 15.0 14.6 4.2 5.0

21.9.62 (324)
KLI 09 49 2.1

21.9.62 (325)
KLI 09 59 1.7

21.9.62 (326)
KLI 10 00 1.3

21.9.62 (327)
KLI 10 01 1.2

21.9.62 (328)
KLI 10 05 1.1

21.9.62 (329)
M = 1.4(1)
KLI 10 23 1.15 0.4 5.5
PLN 23 0.6
CLL 23 55.6 0.7

21.9.62 (330)
KLI 10 58 1.5

21.9.62 (331)
KLI 11 36 1.5

21.9.62 (332)
M = 1.6(2)
KLI 11 38 1.2 0.6 6.0
CLL 38 28.6 14.6 3.6 2.2

21.9.62 (333)
PLN 13 39 0.5

21.9.62 (334)
KLI 13 48 1.2

21.9.62 (335)
KLI 13 49 1.2

21.9.62 (336)
M = 1.4(1)
KLI 14 07 1.1 0.5 5.0

21.9.62 (337)
M = 1.4(2)
KLI 14 32 1.1 0.9 4.5
CLL 32 11.4 14.6 2.0 1.2

21.9.62 (338)
M = 1.3(2)
KLI 14 43 1.2 1.1 3.7
PLN 43 0.6
CLL 43 22.2 14.5 1.8 1.3

21.9.62 (339)
KLI 14 49 3.1

21.9.62 (340)
KLI 16 57 1.6

21.9.62 (341)
M = 1.0(1)
KLI 17 14 1.25 0.5 2.0

21.9.62 (342)
M = 1.4(1)
KLI 17 23 1.3 1.0 4.4

21.9.62 (343)
M = 1.8(2)
KLI 17 39 1.25 0.9 17.0
PLN 39 0.2
CLL 40 01.9 14.6 3.0 2.2

21.9.62 (344)
KLI 18 24 1.8

21.9.62 (345)
KLI 18 46 0.9

21.9.62 (346)
KLI 18 58 2.0

21.9.62 (347)
KLI 20 49 1.2

21.9.62 (348)
KLI 22 07 1.6

21.9.62 (349)
KLI 23 21 3.4

22.9.62 (350)
KLI 01 09 1.1

22.9.62 (351)
KLI 02 55 2.2

22.9.62 (352)
KLI 03 43 3.4

22.9.62 (353)
KLI 03 46 1.6

22.9.62 (354)
KLI 03 46 1.8

22.9.62 (355)
KLI 03 53 1.6

22.9.62 (356)
KLI 03 57 1.6

22.9.62 (357)
KLI 04 12 1.8

22.9.62 (358)
KLI 04 51 2.6

22.9.62 (359)
KLI 04 57 1.6

22.9.62 (360)
KLI 04 59 2.2

22.9.62 (361)
KLI 05 05 1.3

22.9.62 (362)
M = 1.0(1)
KLI 05 09 1.05 0.8 2.6

22.9.62 (363)
KLI 05 11 1.4

22.9.62 (364)
KLI 05 18 1.3

22.9.62 (365)
KLI 05 49 1.4

22.9.62 (366)
KLI 06 03 1.2

22.9.62 (367)
M = 1.5(1)
KLI 07 03 1.25 1.1 5.2

22.9.62 (368)
KLI 07 17 0.9

22.9.62 (369)
KLI 07 29 1.2

22.9.62 (370) M = 1.4(1) KLI 08 30	1.2 1.1 5.0	22.9.62 (383) KLI 15 14	1.3
22.9.62 (371) KLI 08 31	2.1	22.9.62 (384) KLI 16 26 PLN 26	2.4 0.4
22.9.62 (372) KLI 09 16	4.2	22.9.62 (385) KLI 16 57	3.6
22.9.62 (373) KLI 09 16	1.2	22.9.62 (386) KLI 17 04	3.6
22.9.62 (374) KLI 09 16	9.6	22.9.62 (387) M = 1.3(1) KLI 17 15	1.3 3.2
22.9.62 (375) KLI 09 17	2.8	22.9.62 (388) M = 1.5(1) KLI 17 56 PLN 56	1.2 0.8 5.6 0.3
22.9.62 (376) KLI 09 17	2.2	JEN 56	
22.9.62 (377) M = 1.4(1) KLI 09 21 PLN 21	1.1 0.9 5.9 0.5	22.9.62 (389) M = 1.3(1) KLI 17 57	1.2 1.5 4.2
22.9.62 (378) KLI 09 27	1.4	22.9.62 (390) KLI 19 15	1.0
22.9.62 (379) M = 1.6(1) KLI 12 04 PIN 04	1.2 0.7 8.5 0.9	22.9.62 (391) KLI 20 44	1.2
22.9.62 (380) M = 1.9(2) KLI 12 43 PLN 43 JEN 43	1.2 3.0 17.0 3.1 0.2 2.6 1.7	22.9.62 (392) KLI 20 45	0.7
22.9.62 (381) M = 1.3(1) KLI 13 11 PLN 11	1.15 0.6 4.0 0.6	22.9.62 (394) KLI 21 56	1.4
22.9.62 (382) KLI 13 26	5.6	22.9.62 (395) M = 1.3(1) KLI 22 25	1.35 2.9

22.9.62 (396) KLI 22 56	1.3	23.9.62 (410) M = 1.8(1) KLI 04 35 PIN 35	1.25 0.8 11.0 0.4
23.9.62 (397) KLI 00 11	2.1	23.9.62 (411) KLI 04 45	3.8
23.9.62 (398) KLI 01 54	1.2	23.9.62 (412) KLI 05 27	5.6
23.9.62 (399) KLI 02 00	1.7	23.9.62 (413) KLI 06 05	3.9
23.9.62 (400) KLI 02 01	0.9	23.9.62 (414) M = 2.0(1) KLI 06 34 PIN 34 SON 34	1.15 1.5 21.0 0.8 0.6
23.9.62 (401) M = 1.4(1) KLI 02 09 PIN 09	1.2 0.4 4.5 0.4	23.9.62 (415) KLI 06 34	1.4
23.9.62 (402) KLI 02 12	1.0	23.9.62 (416) KLI 07 14	3.9
23.9.62 (403) M = 1.2(1) KLI 02 12	1.2 0.4 3.0	23.9.62 (417) M = 1.5(1) KLI 07 41	1.05 0.8 7.0
23.9.62 (404) KLI 02 13	1.0	23.9.62 (418) KLI 08 01	2.1
23.9.62 (405) KLI 02 13	1.1	23.9.62 (419) KLI 09 33	1.1
23.9.62 (406) KLI 02 36	1.5	23.9.62 (420) KLI 09 33	2.0
23.9.62 (407) KLI 03 55	1.3	23.9.62 (421) KLI 09 33	1.8
23.9.62 (408) KLI 04 26	1.7	23.9.62 (422) KLI 09 36	1.6
23.9.62 (409) M = 1.3(1) KLI 04 31	1.2 0.4 3.5		

23.9.62 (423)
M = 1.5(1)
KLI 09 38 1.1 1.1 6.5

23.9.62 (424)
KLI 09 39 1.3

23.9.62 (425)
KLI 09 39 0.8

23.9.62 (426)
KLI 09 49 1.6

23.9.62 (427)
M = 1.4(1)
KLI 10 35 1.15 0.4 4.8

23.9.62 (428)
KLI 10 39 3.7

23.9.62 (429)
KLI 10 44 1.4

23.9.62 (430)
KLI 11 00 1.4

23.9.62 (431)
KLI 11 02 3.6

23.9.62 (432)
KLI 11 03 1.2

23.9.62 (433)
KLI 11 19 1.3

23.9.62 (434)
KLI 12 40 1.6

23.9.62 (435)
M = 1.4(2)
KLI 13 27 1.3 1.4 7.2
PLN 27 0.4
CLL 27 38.1 14.6 1.0 0.8

23.9.62 (436)
KLI 13 37 2.7

23.9.62 (437)
KLI 13 39 2.9

23.9.62 (438)
M = 1.8(2)
KLI 14 21 1.25 2.7 12.0
PLN 21 1.2
JEN 21
CLL 21 24.1 14.2 4.0 3.1

23.9.62 (439)
KLI 16 40 4.2

23.9.62 (440)
KLI 16 40 7.5

23.9.62 (441)
KLI 19 02 2.2

23.9.62 (442)
KLI 19 16 1.8

23.9.62 (443)
M = 1.3(1)
KLI 19 19 1.1 0.6 4.1

23.9.62 (444)
KLI 20 40 3.0

23.9.62 (445)
KLI 20 40 2.5

23.9.62 (446)
KLI 20 45 3.0

23.9.62 (447)
KLI 22 55 1.6

23.9.62 (448)
M = 1.3(1)
KLI 22 57 6.5
PLN 57 0.7
JEN 57
CLL 57 49.2 14.6 2.2 1.2

23.9.62 (449)
KLI 23 14 1.6

24.9.62 (450)
KLI 01 09 2.9

24.9.62 (451)
KLI 01 10 1.3

24.9.62 (452)
KLI 01 11 1.9

24.9.62 (453)
KLI 01 13 4.0

24.9.62 (454)
KLI 01 13 3.2

24.9.62 (455)
KLI 01 47 1.9

24.9.62 (456)
KLI 02 26 1.0

24.9.62 (457)
KLI 02 41 0.7

24.9.62 (458)
KLI 04 43 0.9

24.9.62 (459)
KLI 04 50 1.6

24.9.62 (460)
KLI 05 43 2.4

24.9.62 (461)
KLI 05 49 1.1

24.9.62 (462)
PIN 10 55 1.5

24.9.62 (463)
M = 1.6(2)
PLN 13 52 3.1 0.2 1.5
SON 52 0.8
CLL 52 18.0 14.6 3.0 2.5

24.9.62 (464)
M = 1.4(1)
PLN 18 41 0.5
CLL 41 52.1 14.0 1.8 0.9

25.9.62 (465)
KLI 14 58 3.2

25.9.62 (466)
KLI 14 59 4.4

25.9.62 (467)
KLI 15 13 1.6

25.9.62 (468)
KLI 15 17 5.5

25.9.62 (469)
KLI 16 14 1.3

25.9.62 (470)
KLI 20 58 4.2

25.9.62 (471)
M = 1.2(2)
KLI 21 16 1.2 0.8 4.5
PLN 16 0.5
CLL 17 02.1 14.8 1.6 0.8

25.9.62 (472)
KLI 21 34 1.0

25.9.62 (473)
KLI 21 37 2.5

25.9.62 (474)
KLI 21 46 1.4

25.9.62 (475)
M = 1.6(2)
KLI 22 48 1.15 1.0 12.0
PLN 48 0.8
CLL 48 13.7 14.8 2.0 1.6

25.9.62 (476)
KLI 22 03 1.4

25.9.62 (477) KLI 23 00	2.9	28.9.62 (491) KLI 16 12	1.3
25.9.62 (478) KLI 23 23	2.5	28.9.62 (492) KLI 16 19	0.4
25.9.62 (479) KLI 23 23	1.8	28.9.62 (493) KLI 16 59	1.5
26.9.62 (480) KLI 02 32	1.7	28.9.62 (494) M = 1.9(3) 50.306 N 12.373 E KLI 17 03 1.15 1.2 22.0 PIN 03 3.1 0.4 2.6 SON 03 1.1 JEN 03 1.3 CLL 03 52.3 14.8 5.0 5.0	
26.9.62 (481) KLI 04 39	1.5		
26.9.62 (482) PIN 13 03	0.6	28.9.62 (495) KLI 17 03	5.0
27.9.62 (483) M = 1.4(1) PIN 12 18 CLL 18 28.0 14.5 1.8 0.9	0.5	28.9.62 (496) KLI 17 14	1.1
27.9.62 (484) KLI 16 30	5.2	28.9.62 (497) KLI 17 16	3.8
27.9.62 (485) KLI 16 47	1.5	28.9.62 (498) KLI 17 37	0.4
27.9.62 (486) KLI 16 47	2.3	28.9.62 (499) KLI 17 37	3.5
27.9.62 (487) KLI 16 56	6.8	28.9.62 (500) M = 2.3(5) 50.325 N 12.406 E KLI 17 38 1.1 3.0 22.0 PIN 38 3.15 0.4 6.6 SON 38 55.4 10.7 0.4 1.8 JEN 38 56.4 10.4 0.6 2.2 CLL 39 00.7 14.3 8.0 11.0	
27.9.62 (488) M = 1.4(1) KLI 17 10 1.2 0.4 4.8 PIN 10 0.5		28.9.62 (501) KLI 17 43	1.0
28.9.62 (489) PIN 06 21	0.5	28.9.62 (502) M = 1.3(1) KLI 18 38 1.2 0.8 3.8 PIN 38 0.4 CLL 38 1.0	
28.9.62 (490) KLI 16 10	1.4		

28.9.62 (503) KLI 18 57	2.2	29.9.62 (517) KLI 00 59	2.3
28.9.62 (504) M = 1.3(1) KLI 18 58 1.15 0.5 4.0 PIN 58 0.5		29.9.62 (518) M = 1.2(1) KLI 02 40 1.15 3.6	
28.9.62 (505) KLI 20 41	2.0	29.9.62 (519) M = 1.2(1) KLI 02 41 1.15 0.6 3.6 PIN 41 0.5	
28.9.62 (506) M = 1.0(1) KLI 20 44 1.1 0.4 2.0 PIN 44 0.3		29.9.62 (520) KLI 02 43	2.7
28.9.62 (507) KLI 22 38	2.1	29.9.62 (521) KLI 02 46	2.3
28.9.62 (508) M = 1.3(1) KLI 22 45 1.15 3.9		29.9.62 (522) KLI 02 48	2.4
29.9.62 (509) KLI 00 03	1.2	29.9.62 (523) M = 1.6(2) KLI 02 50 1.15 0.5 19.0 PIN 50 0.8 CLL 50 24.0 14.5 1.1 1.2	
29.9.62 (510) KLI 00 03	1.1	29.9.62 (524) PIN 07 41	0.4
29.9.62 (511) KLI 00 03	0.8	29.9.62 (525) PIN 07 42	0.3
29.9.62 (512) KLI 00 04	2.2	29.9.62 (526) M = 1.4(1) PIN 10 35 0.6 CLL 35 53.9 14.2 1.5 1.8	
29.9.62 (513) KLI 00 30	1.5	29.9.62 (527) M = 1.4(1) PIN 10 38 0.5 CLL 38 50.5 14.7 1.0 1.5	
29.9.62 (514) KLI 00 34	2.3	30.9.62 (528) PIN 09 38	0.7
29.9.62 (515) KLI 00 48	1.1	30.9.62 (529) KLI 18 50	1.6
29.9.62 (516) KLI 00 52	1.8		

30.9.62 (530) KLI 18 58	1.9	1.10.62 (544) KLI 04 45	1.0
30.9.62 (531) KLI 19 35	0.9	1.10.62 (545) KLI 04 46	1.2
30.9.62 (532) KLI 19 53	2.5	1.10.62 (546) KLI 04 49	2.3
30.9.62 (533) KLI 22 01	6.7	1.10.62 (547) KLI 04 49	0.6
30.9.62 (534) KLI 22 05	1.8	1.10.62 (548) KLI 04 56	1.6
30.9.62 (535) KLI 22 10	1.1	1.10.62 (549) KLI 04 57	1.6
1.10.62 (536) M = 1.1(1) KLI 01 32	1.1 0.7 2.6	1.10.62 (550) KLI 04 58	1.1
1.10.62 (537) KLI 01 35	1.4	1.10.62 (551) KLI 05 02	1.6
1.10.62 (538) KLI 02 12	0.9	1.10.62 (552) KLI 05 02	3.4
1.10.62 (539) KLI 02 13	1.9	1.10.62 (553) M = 1.4(1) PLN 05 09 CII 09 13.7 14.5 0.8	0.9 1.5
1.10.62 (540) M = 1.6(3) 50.305 N 12.398 E KLI 02 15 1.05 1.3 5.2 PLN 15 3.3 0.3 2.5 CII 15 42.5 14.7 2.8 2.3		1.10.62 (554) M = 1.3(1) PLN 05 47 CII 47 31.8 14.7 1.4	0.7 1.3
1.10.62 (541) KLI 04 07	3.4	1.10.62 (555) M = 1.6(1) PLN 20 00 CII 00 44.5 14.2 2.5	0.6 2.6
1.10.62 (542) KLI 04 07	2.6	2.10.62 (556) KLI 16 34	2.1
1.10.62 (543) KLI 04 07	1.6		

2.10.62 (557) KLI 19 15	1.8	3.10.62 (572) KLI 13 59	1.4
2.10.62 (558) KLI 19 26	1.6	3.10.62 (573) KLI 14 39	1.6
2.10.62 (559) KLI 19 44	2.8	3.10.62 (574) KLI 15 17	1.6
2.10.62 (560) KLI 21 20	1.5	3.10.62 (575) KLI 15 35	2.9
2.10.62 (561) KLI 21 30	1.5	3.10.62 (576) KLI 15 54	2.4
2.10.62 (562) KLI 21 31	3.2	3.10.62 (577) KLI 16 14	2.8
2.10.62 (563) KLI 21 41	2.0	3.10.62 (578) KLI 16 18	2.8
3.10.62 (564) KLI 00 56	2.0	3.10.62 (579) KLI 16 18	1.7
3.10.62 (565) KLI 01 43	1.5	3.10.62 (580) M = 2.0(3) 50.320 N 12.359 E KLI 16 20 1.25 1.5 29.0 PLN 20 3.1 0.4 2.6 SON 20 1.0 JEN 20 20.3 10.2 2.6 CII 20 23.7 14.5 9.0 5.6	
3.10.62 (566) PLN 10 56	1.3		
3.10.62 (567) KLI 13 29	1.6	3.10.62 (581) KLI 16 39	1.5
3.10.62 (568) KLI 13 38	1.6	3.10.62 (582) KLI 17 05	1.4
3.10.62 (569) KLI 13 47	1.0	3.10.62 (583) KLI 17 12	2.5
3.10.62 (570) KLI 13 56	1.1	3.10.62 (584) M = 1.7(2) KLI 17 32 1.25 0.7 13.0 PLN 32 0.9 CII 33 05.6 13.9 2.4 2.0	
3.10.62 (571) KLI 13 57	2.6		

3.10.62 (585) KLI 17 55	3.8	3.10.62 (597) KLI 20 29	1.4
3.10.62 (586) M = 1.5(2) KLI 18 00 PLN 00 CLL 00 28.2	1.2 0.7 13.0 0.3 0.8	3.10.62 (598) KLI 20 52	1.3
3.10.62 (587) KLI 18 06	2.7	3.10.62 (599) KLI 20 56	1.1
3.10.62 (588) M = 1.7(2) KLI 18 23 PLN 23 CLL 23 32.3	1.3 1.5 14.0 0.4 1.7	3.10.62 (600) KLI 20 56	1.2
3.10.62 (589) KLI 19 02	1.7	3.10.62 (601) KLI 21 02	1.3
3.10.62 (590) KLI 19 03	2.2	3.10.62 (602) KLI 21 57	1.5
3.10.62 (591) KLI 19 04	1.1	3.10.62 (603) KLI 22 01	1.4
3.10.62 (592) M = 1.4(1) KLI 19 07	1.3 0.4 4.6	3.10.62 (604) KLI 23 02	1.8
3.10.62 (593) M = 1.3(1) KLI 19 23 PLN 23 CLL 23 40.7	1.2 1.1 6.8 0.7 14.6	3.10.62 (605) M = 1.5(1) KLI 23 08	1.2 0.5 5.6
3.10.62 (594) KLI 19 55	2.4	3.10.62 (606) KLI 23 11	1.6
3.10.62 (595) M = 1.5(1) KLI 19 57 PLN 57	1.25 0.7 5.5 0.3	4.10.62 (607) KLI 00 19	1.7
3.10.62 (596) M = 1.3(1) KLI 19 57 PLN 57	1.2 0.5 3.6 0.3	4.10.62 (608) KLI 01 35	1.2
		4.10.62 (609) KLI 01 49	1.1
		4.10.62 (610) KLI 01 49	2.0
		4.10.62 (611) KLI 01 58	1.9

4.10.62 (612) KLI 02 09	2.3	4.10.62 (626) M = 1.4(1) KLI 07 00 PLN 00	1.1 0.5 5.6 0.6
4.10.62 (613) KLI 02 10	2.3	4.10.62 (627) KLI 07 03	1.7
4.10.62 (614) KLI 02 10	2.0	4.10.62 (628) KLI 07 15	1.9
4.10.62 (615) KLI 02 47	1.4	4.10.62 (629) M = 1.7(1) KLI 07 54 PLN 54	1.2 0.7 9.4 0.7
4.10.62 (616) M = 1.3(1) KLI 03 09	1.2 0.3 4.1	4.10.62 (630) KLI 08 10	2.5
4.10.62 (617) KLI 03 12	5.2	4.10.62 (631) M = 2.6(4) 50.304 N 12.395 E KLI 08 27 SON 27 48.0 JEN 27 48.8 CLL 27 52.5	1.1 4.0 41.5 10.4 0.6 3.3 10.6 1.4 4.1 14.7 38.0 18.0
4.10.62 (618) KLI 03 37	2.1	4.10.62 (632) KLI 08 36	2.2
4.10.62 (619) KLI 03 55	2.7	4.10.62 (633) KLI 08 42	2.0
4.10.62 (620) KLI 05 26	4.7	4.10.62 (634) KLI 09 56	6.2
4.10.62 (621) KLI 05 41	1.2	4.10.62 (635) KLI 10 00	5.8
4.10.62 (622) KLI 05 41	1.5	4.10.62 (636) KLI 10 00	4.0
4.10.62 (623) KLI 06 23	3.0	4.10.62 (637) M = 1.5(2) KLI 10 36 PIN 36 CLL 36 13.8	1.2 0.7 7.0 1.0 14.3 2.1 1.8
4.10.62 (624) KLI 06 23	1.1		
4.10.62 (625) KLI 06 23	4.2		

4.10.62 (638)
M = 1.2(1)
KLI 11 23 1.2 0.6 3.5
PLN 23 0.5

4.10.62 (639)
KLI 11 26 3.1

4.10.62 (640)
KLI 11 26 2.0

4.10.62 (641)
M = 2.2(5) 50.307 N 12.397 E
KLI 12 05 1.15 3.5 30.0
PLN 05 3.1 1.0 2.5
SON 05 40.4 10.6 1.3
JEN 05 41.3 10.7 0.8 1.8
CLL 05 44.4 14.7 8.5 7.0

4.10.62 (642)
KLI 12 06 1.4

4.10.62 (643)
KLI 12 07 1.6

4.10.62 (644)
M = 1.9(1)
KLI 12 29 1.1 0.5 13.0
PLN 29 0.9
CLL 29 39.5 14.6 8.0 6.5

4.10.62 (645)
KLI 12 49 3.5

4.10.62 (646)
KLI 13 04 3.0

4.10.62 (647)
KLI 13 21 5.0

4.10.62 (648)
KLI 13 21 6.0

4.10.62 (649)
KLI 14 05 1.6

4.10.62 (650)
KLI 17 05 3.1

4.10.62 (651)
M = 1.9(5) 50.314 N 12.386 E
KLI 18 28 1.1 4.0 34.0
PLN 28 3.1 0.4 1.8
SON 28 33.9 10.5 0.4 1.5
JEN 28 35.0 10.4 0.3 1.5
CLL 28 38.3 14.7 0.7 1.1

4.10.62 (652)
M = 1.7(1)
KLI 18 40 1.15 0.5 10.0
PLN 40 0.4

4.10.62 (653)
KLI 19 31 2.7

4.10.62 (654)
KLI 19 38 4.7

4.10.62 (655)
KLI 19 47 2.5

4.10.62 (656)
M = 1.8(2)
KLI 19 47 1.15 1.1 15.5
PLN 47 0.8
CLL 48 02.7 14.8 2.2 3.3

4.10.62 (657)
KLI 19 48 4.5

4.10.62 (658)
KLI 19 55 2.0

4.10.62 (659)
KLI 19 59 1.6

4.10.62 (660)
KLI 20 17 2.5

4.10.62 (661)
KLI 20 22 4.5

4.10.62 (662)
KLI 21 11 1.8

4.10.62 (663)
KLI 21 11 1.4

4.10.62 (664)
M = 1.7(1)
KLI 21 16 1.15 0.7 11.0
PLN 16 0.5

4.10.62 (665)
KLI 21 37 1.0

4.10.62 (666)
KLI 21 57 2.9

4.10.62 (667)
KLI 22 00 3.8

5.10.62 (668)
KLI 00 18 2.4

4.10.62 (669)
KLI 01 02 4.7

4.10.62 (670)
KLI 01 02 3.0

4.10.62 (671)
KLI 01 26 3.0

4.10.62 (672)
KLI 01 40 2.0

4.10.62 (673)
PLN 02 32 0.4

4.10.62 (674)
KLI 03 11 2.6

4.10.62 (675)
KLI 03 11 1.5

4.10.62 (676)
KLI 03 11 1.0

4.10.62 (677)
KLI 03 12 5.2

4.10.62 (678)
KLI 03 24 5.4

4.10.62 (679)
KLI 03 25 4.3

4.10.62 (680)
KLI 04 17 6.7

4.10.62 (681)
KLI 05 11 1.5

4.10.62 (682)
KLI 06 18 1.3

4.10.62 (683)
KLI 06 23 1.0

4.10.62 (684)
KLI 06 28 2.3

4.10.62 (685)
KLI 06 46 1.7

4.10.62 (686)
KLI 06 57 3.1

4.10.62 (687)
KLI 06 57 3.0

4.10.62 (688)
KLI 08 44 1.4

4.10.62 (689)
M = 1.4(1)
KLI 08 48 1.1 0.5 5.1
PLN 48 0.4

4.10.62 (690)
KLI 09 09 1.0

4.10.62 (691)
KLI 09 09 1.8

5.10.62 (692)
KLI 09 36 1.6

5.10.62 (693)
KLI 09 46 1.3

5.10.62 (694) KLI 11 07	1.2	5.10.62 (708) KLI 22 31	1.3
5.10.62 (695) KLI 11 09	2.0	5.10.62 (709) KLI 23 26	1.7
5.10.62 (696) KLI 11 17	2.3	6.10.62 (710) KLI 02 04	2.6
5.10.62 (697) KLI 11 21	1.2	6.10.62 (711) KLI 02 10	1.1
5.10.62 (698) M = 1.5(1) KLI 11 23 PLN 23	1.2 0.5 5.5 0.9	6.10.62 (712) KLI 02 28	1.8
5.10.62 (699) KLI 13 55	1.9	6.10.62 (713) KLI 02 28	1.1
5.10.62 (700) M = 1.5(1) KLI 15 17 PLN 17	1.1 0.5 7.4 0.7	6.10.62 (714) KLI 05 37	1.8
5.10.62 (701) PLN 16 05	0.6	6.10.62 (715) KLI 05 38	1.3
5.10.62 (702) KLI 16 09	1.4	6.10.62 (716) KLI 05 42	1.5
5.10.62 (703) KLI 18 13	1.3	6.10.62 (717) KLI 06 56	2.3
5.10.62 (704) KLI 19 00	1.0	6.10.62 (718) KLI 06 57	1.9
5.10.62 (705) KLI 19 04	0.9	6.10.62 (719) KLI 07 28	1.3
5.10.62 (706) KLI 19 05	2.1	6.10.62 (720) KLI 07 37	1.7
5.10.62 (707) KLI 19 14	4.0	6.10.62 (721) KLI 07 45	1.6
		6.10.62 (722) KLI 14 38	1.6

6.10.62 (723) KLI 16 48	1.1	8.10.62 (736) KLI 14 23	2.8
7.10.62 (724) KLI 00 27	2.6	8.10.62 (737) M = 1.4(1) KLI 14 41 PLN 41	1.15 0.3 5.5 0.8
7.10.62 (725) KLI 00 30	2.4	8.10.62 (738) KLI 14 44	2.6
7.10.62 (726) KLI 00 37	2.0	8.10.62 (739) KLI 14 56	1.5
7.10.62 (727) M = 1.6(1) KLI 01 20 PLN 20	1.05 1.8 10.0 0.9	8.10.62 (740) M = 1.6(1) KLI 22 10 PLN 10	1.1 0.4 9.0 0.5
7.10.62 (728) KLI 04 19	1.9	8.10.62 (741) M = 1.6(3) 50.329 N 12.392 E KLI 23 51 PLN 51 JEN 51 CLL 51 15.9 14.1 1.5 1.8	1.15 1.0 12.5 3.1 0.3 1.3
7.10.62 (729) KLI 12 04	0.8	9.10.62 (742) KLI 05 56	1.8
8.10.62 (730) M = 1.4(2) KLI 11 33 PLN 33 CLL 33 11.4 14.5 3.8 2.6	1.05 0.3 3.0 2.2 2.6	9.10.62 (743) KLI 05 57	2.8
8.10.62 (731) KLI 13 02	6.1	9.10.62 (744) KLI 05 57	2.6
8.10.62 (732) KLI 13 42	1.6	9.10.62 (745) KLI 06 05 PLN 05	1.15 0.6 5.3 0.4
8.10.62 (733) KLI 13 51	1.7	9.10.62 (746) M = 1.5(1) CLL 10 09 11.0 14.7 0.6 2.2	
8.10.62 (734) M = 1.7(1) KLI 14 07 PLN 07	1.2 0.7 9.0 0.7	9.10.62 (747) KLI 13 09	1.3
8.10.62 (735) KLI 14 13	2.2		

9.10.62 (748)
 KLI 18 05 6.0

9.10.62 (749)
 M = 1.8(2)
 KLI 18 13 1.15 0.8 9.0
 PIN 13 0.9
 CLL 13 10.9 14.4 2.7 4.8

9.10.62 (750)
 KLI 18 13 1.8

9.10.62 (751)
 KLI 18 13 3.2

10.10.62 (752)
 M = 1.8(2)
 PIN 09 53 3.15 0.5 2.1
 SON 53 0.9
 JEN 53
 CLL 54 02.0 14.3 3.5 6.0

10.10.62 (753)
 KLI 12 31 1.8

11.10.62 (754)
 PIN 11 04 1.8

11.10.62 (755)
 KLI 12 35 1.4

11.10.62 (756)
 PIN 12 52 0.6

11.10.62 (757)
 KLI 15 16 1.5

13.10.62 (758)
 KLI 00 15 1.05 0.8 5.3

13.10.62 (759)
 KLI 00 18 1.5

13.10.62 (760)
 M = 1.9(3) 50.315 N 12.385 E
 KLI 00 18 1.05 5.0 23.0
 PIN 18 3.1 0.4 2.3
 SON 18 1.4
 JEN 18 1.4
 CLL 19 01.3 14.6 3.3 6.7

14.10.62 (761)
 KLI 05 34 2.6

14.10.62 (762)
 KLI 08 39 1.2

15.10.62 (763)
 KLI 05 52 2.0

15.10.62 (764)
 M = 1.0(1)
 KLI 13 16 1.1 0.3 2.0

15.10.62 (765)
 M = 0.9(1)
 KLI 13 16 1.1 0.2 1.8

15.10.62 (766)
 KLI 20 08 2.2

15.10.62 (767)
 KLI 22 45 1.7

16.10.62 (768)
 KLI 13 23 1.0

16.10.62 (769)
 M = 0.9(1)
 KLI 15 21 1.0 0.2 2.0

17.10.62 (770)
 KLI 05 34 1.1

17.10.62 (771)
 KLI 05 42 1.0

17.10.62 (772)
 KLI 14 32 1.1

17.10.62 (773)
 KLI 14 32 1.1

18.10.62 (774)
 KLI 16 44 1.1

19.10.62 (775)
 KLI 07 51 1.3

19.10.62 (776)
 M = 0.5(1)
 KLI 08 40 0.8 0.5 1.2

19.10.62 (777)
 KLI 09 46 1.3

20.10.62 (778)
 KLI 12 48 1.7

20.10.62 (779)
 KLI 14 33 1.3

26.10.62 (780)
 M = 1.0(1)
 KLI 05 28 1.1 0.6 2.0

26.10.62 (781)
 M = 0.9(1)
 KLI 15 24 1.1 0.8 1.6

26.10.62 (782)
 KLI 15 25 1.1

27.10.62 (783)
 KLI 05 18 1.5

28.10.62 (784)
 M = 1.3(1)
 KLI 03 10 0.8 0.5 6.5

28.10.62 (785)
 M = 1.4(1)
 KLI 20 08 1.0 0.2 6.2

28.10.62 (786)
 KLI 20 15 2.0

28.10.62 (787)
 KLI 22 44 1.8

29.10.62 (788)
 KLI 22 23 2.0

1.11.62 (789)
 KLI 07 51 1.3

1.11.62 (790)
 KLI 08 08 1.2

1.11.62 (791)
 KLI 10 28 1.3

18.11.62 (792)
 M = 1.1(1)
 KLI 08 56 1.1 0.2 3.0

18.11.62 (793)
 KLI 11 47 2.0

19.11.62 (794)
 KLI 11 26 1.3

22.11.62 (795)
 KLI 13 40 1.4

23.11.62 (796)
 M = 1.2(1)
 KLI 10 53 1.1 0.2 3.2

23.11.62 (797)
 KLI 22 49 2.6

24.11.62 (798)
 M = 1.1(1)
 KLI 00 25 0.6 0.6 7.5

24.11.62 (799)
 KLI 02 32 1.8

24.11.62 (800) KLI 03 08	1.6	27.11.62 (814) KLI 13 16	1.3
24.11.62 (801) KLI 03 09	2.3	27.11.62 (815) KLI 13 17	1.6
24.11.62 (802) KLI 03 10	2.2	27.11.62 (816) M = 1.0(1) KLI 13 18	1.1 0.3 2.0
24.11.62 (803) KLI 03 22	4.0	27.11.62 (817) M = 1.8(1) KLI 15 11	1.2 0.7 12.0
24.11.62 (804) KLI 03 23	1.8	PIN 11 CII 11 33.2	14.4 2.0
24.11.62 (805) KLI 05 40	2.0	27.11.62 (818) M = 1.1(1) KLI 15 14	1.2 0.3 2.2
24.11.62 (806) KLI 08 06	2.0	28.11.62 (819) M = 1.0(1) KLI 12 39	1.1 0.8 2.0
24.11.62 (807) KLI 15 26	2.5	28.11.62 (820) KLI 12 42	1.8
26.11.62 (808) KLI 09 19	1.5	28.11.62 (821) M = 1.5(1) KLI 13 27	1.1 1.0 7.0
26.11.62 (809) KLI 09 38	1.6	PIN 27	0.4
26.11.62 (810) KLI 10 07	1.3	28.11.62 (822) M = 1.0(1) KLI 13 29	1.0 0.5 2.7
27.11.62 (811) M = 0.7(1) KLI 07 09	1.1 0.4 1.0	PLN 29	0.3
27.11.62 (812) M = 0.7(1) KLI 07 22	1.1 0.4 1.2	28.11.62 (823) M = 0.9(1) KLI 13 37	1.1 0.5 1.7
27.11.62 (813) M = 0.8(1) KLI 09 47	1.1 0.4 1.4	28.11.62 (824) M = 1.1(1) KLI 18 18	1.1 0.5 2.8

29.11.62 (825) M = 0.9(1) KLI 23 54	1.1 0.4 1.8	30.11.62 (837) KLI 02 37	1.6
30.11.62 (826) M = 1.5(1) KLI 00 15	1.2 0.6 5.5	30.11.62 (838) KLI 02 38	1.1 1.5
PLN 15	0.4	30.11.62 (839) M = 1.2(1) KLI 02 39	1.1 0.7 3.6
30.11.62 (827) KLI 00 19	1.3	30.11.62 (840) M = 1.1(1) KLI 02 50	1.1 0.4 2.7
30.11.62 (828) KLI 00 32	1.5	30.11.62 (841) KLI 03 33	1.5
30.11.62 (829) KLI 01 08	1.3	30.11.62 (842) KLI 03 36	1.4
30.11.62 (830) M = 1.4(1) KLI 01 10	1.2 0.3 4.3	30.11.62 (843) M = 1.5(1) KLI 03 37	1.1 1.7 7.0
30.11.62 (831) M = 1.3(1) KLI 01 32	1.2 0.4 4.0	PLN 37	0.4
30.11.62 (832) M = 1.9(1) KLI 01 45	1.0 1.0 18.0	30.11.62 (844) KLI 03 37	2.0
PLN 45	0.7	30.11.62 (845) KLI 03 53	1.9
CII 45 48.1	14.4	30.11.62 (846) M = 1.5(1) KLI 03 54	1.2 1.3 6.0
30.11.62 (833) KLI Q1 45	1.7	PLN 54	0.7
30.11.62 (834) M = 1.3(1) KLI 01 53	1.1 0.5 4.0	CII 54	
30.11.62 (835) M = 1.3(1) KLI 01 53	1.2 0.5 4.0	30.11.62 (847) M = 1.2(1) KLI 04 19	1.1 0.4 3.2
30.11.62 (836) KLI 01 54	2.0	PLN 19	0.4
		30.11.62 (848) KLI 04 23	1.5
		30.11.62 (849) KLI 04 23	2.0

30.11.62 (850)
M = 1.0(1)
KLI 04 49 1.1 1.1 2.4

30.11.62 (851)
M = 1.6(1)
KLI 05 22 1.1 1.1 8.5
PIN 22 1.0
CLL 22 09.3 14.5

30.11.62 (852)
KLI 06 15 1.4

30.11.62 (853)
KLI 06 27 2.3

30.11.62 (854)
M = 1.1(1)
KLI 06 28 1.0 1.0 3.0

30.11.62 (855)
KLI 06 34 1.2

30.11.62 (856)
KLI 08 44 1.7

30.11.62 (857)
KLI 12 09 1.3

30.11.62 (858)
KLI 12 15 1.5

30.11.62 (859)
KLI 14 59 1.4

30.11.62 (860)
KLI 18 22 1.5

30.11.62 (861)
KLI 20 43 4.0

30.11.62 (862)
M = 1.9(1)
KLI 20 45 1.1 2.0 16.0
PIN 45 0.7
CLL 45 55.6 14.5

4.12.62 (863)
M = 0.7(1)
KLI 15 50 0.7 0.15 2.2

15.12.62 (864)
M = 1.2(1)
KLI 13 50 0.7 1.5 6.5

1 9 6 3

17.1.63 (1)
M = 0.6(1)
KLI 06 53 0.45 1.2 3.1

28.1.63 (2)
M = -0.1(1)
KLI 14 59 0.4 0.2 0.8

4.2.63 (3)
M = 1.2(1)
KLI 19 11 0.65 1.7 7.5
PIN 19 11 0.8

17.2.63 (4)
M = 0.1(1)
KLI 21 04 0.45 0.2 1.1

17.2.63 (5)
M = 0.9(1)
KLI 23 38 0.8 0.5 2.5

17.2.63 (6)
M = 0.3(1)
KLI 23 38 0.9 0.2 0.55

17.2.63 (7)
M = 0.8(1)
KLI 23 39 1.15 0.5 1.3

17.2.63 (8)
M = 0.1(1)
KLI 23 39 1.1 0.1 0.3

17.2.63 (9)
M = 0.8(1)
KLI 23 39 1.1 0.7 1.3

17.2.63 (10)
M = 0.8(1)
KLI 23 40 0.9 1.3 1.7

17.2.63 (11)
M = 0.9(1)
KLI 23 41 1.3 0.5 1.2

17.2.63 (12)
M = 0.8(1)
KLI 23 41 1.4 0.5 1.0

28.2.63 (13)
M = 1.5(1)
KLI 22 12 1.15 0.6 7.0

17.3.63 (14)
M = 1.1(1)
KLI 08 01 1.3 0.3 1.9

18.3.63 (15)
M = 1.8(2)
KLI 04 45 1.1 1.1 18.0
PIN 45 3.15 0.4 2.2

18.3.63 (16)
M = 1.7(2)
KLI 04 54 1.15 0.7 14.0
PIN 54 3.3 0.7 1.7

18.3.63 (17)
KLI 04 55 4.2

18.3.63 (18)
KLI 05 04 2.8

18.3.63 (19)
KLI 05 32 3.2

19.3.63 (20)
M = 1.9(1)
KLI 03 13 1.25 1.0 14.0
PIN 3.3 0.55

19.3.63 (21)
M = 1.6(1)
KLI (18.00) 1.5 0.5 5.5

19.3.63 (22)
KLI (18 20) 1.5

11.6.63 (23)
KLI 14 17 1.6

12.6.63 (24)
M = 1.5(1)
KLI 17 28 1.0 0.5 7.7

12.6.63 (25)
M = 1.0(1)
KLI 18 28 (0.9) 0.15 3.0

13.6.63 (26)
KLI 14 54 1.6

13.6.63 (27)
KLI 14 55 1.4

13.6.63 (28)
KLI 15 19 1.3

15.7.63 (29)
M = 2.1(3) 50.431 N 12.506 E
KLI 01 57 1.2 7.0 22.0
PIN 57 3.3 0.2 4.6
JEN 57 33 10.2 1.0 1.4

18.7.63 (30)
KLI (07 00) 6.0 21.0

18.7.63 (31)
KLI 11 00 4.5

18.7.63 (32)
M = 1.0(1)
KLI 13 20 1.25 0.3 1.8

28.7.63 (33)
KLI 01 30 1.5

24.10.63 (34)
M = 1.4(1)
KLI 01 00 1.2 0.15 4.5

1 9 6 4		12.5.65 (8) M = 0.7(1) KLI 08 08	0.55 0.4 3.4
29.8.64 (1) M = 1.3(1) KLI 00 27	0.75 2.0 8.5	1 9 6 6	
16.9.64 (2) M = 0.8(1) KLI 23 14	0.75 0.6 2.5	14.9.66 (1) M = 1.6(1) KLI 03 54 PIN 54	0.75 2.5 15.0 2.2
18.9.64 (3) M = 0.8(1) KLI 00 35	0.6 0.3 3.3	16.11.66 (2) M = 1.3(1) KLI 05 14	1.7 0.6 2.1
7.12.64 (4) M = 1.1(1) KLI 07 42	0.65 3.5 6.5	1 9 6 7	
1 9 6 5		19.3.67 (1) M = 0.6(1) KLI 00 36	0.8 0.4 1.4
10.1.65 (1) M = 0.7(1) KLI 02 17	0.6 0.6 2.7	19.3.67 (2) M = 0.7(1) KLI 03 53	0.45 1.1 4.5
12.1.65 (2) M = 1.0(1) KLI 08 56	0.9 0.9 3.0	19.3.67 (3) M = 1.0(1) KLI 05 06	0.6 1.1 5.0
20.2.65 (3) M = 0.8(1) KLI 21 19	0.85 0.15 2.2	1 9 6 8	
20.2.65 (4) M = 0.9(1) KLI 21 19	0.75 0.15 3.1	14.1.68 (1) M = 1.7(1) KLI 23 14	1.5 4.0 11.0
20.2.65 (5) KLI 21 59	1.4	15.1.68 (2) M = 1.3(1) KLI 02 41	1.1 4.0 7.0
20.2.65 (6) KLI 22 44	2.6	26.11.68 (3) M = 1.1(1) KLI 01 14	1.25 1.2 3.5
1.5.65 (7) M = 1.3(2) KLI 09 08 PIN 08	0.8 2.0 11.0 3.0 1.5 0.7		

26.11.68 (4) M = 1.5(1) KLI 22 36	1.3 1.5 7.5	26.11.68 (17) M = 1.5(1) KLI 23 49	1.3 1.5 7.5
26.11.68 (5) M = 1.2(1) KLI 22 40	1.35 1.5 4.0	26.11.68 (18) M = 1.1(1) KLI 23 56	1.3 0.8 3.6
26.11.68 (6) M = 1.3(1) KLI 22 41	1.3 1.3 4.8	27.11.68 (19) M = 1.6(1) KLI 00 17	1.3 3.5 9.5
26.11.68 (7) M = 1.3(1) KLI 23 03	1.2 1.2 6.4	27.11.68 (20) M = 1.1(1) KLI 00 18	1.3 1.0 3.2
26.11.68 (8) M = 1.2(1) KLI 23 03	1.3 1.7 4.6	27.11.68 (21) M = 1.4(1) KLI 00 27	1.1 2.0 8.5
26.11.68 (9) M = 1.1(1) KLI 23 04	1.2 0.7 3.6	27.11.68 (22) KLI 01 03	2.9
26.11.68 (10) M = 1.2(1) KLI 23 09	1.3 1.1 4.2	27.11.68 (23) M = 1.3(1) KLI 01 03	1.3 1.2 4.8
26.11.68 (11) M = 1.4(1) KLI 23 13	1.3 1.6 6.8	27.11.68 (24) KLI 01 03	1.7
26.11.68 (12) M = 1.4(1) KLI 23 14	1.25 2.0 6.5	27.11.68 (25) M = 1.4(1) KLI 01 04	1.3 1.3 7.2
26.11.68 (13) M = 1.0(1) KLI 23 16	1.3 0.7 2.4	27.11.68 (26) M = 1.2(1) KLI 01 08	1.3 0.8 4.4
26.11.68 (14) KLI 23 29	1.5	27.11.68 (27) KLI 01 13	1.5
26.11.68 (15) M = 1.1(1) KLI 23 49	1.3 0.6 3.5	27.11.68 (28) M = 1.3(1) KLI 01 38	1.3 1.2 5.5
26.11.68 (16) KLI 23 49	5.2	27.11.68 (29) M = 1.1(1) KLI 01 48	1.1 1.0 4.4

27.11.68 (30)
M = 1.1(1)
KLI 06 22 1.3 0.7 3.0

27.11.68 (31)
M = 1.6(1)
KLI 10 54 1.3 3.0 11.5

27.11.68 (32)
M = 1.1(1)
KLI 21 37 1.3 1.4 3.5

28.11.68 (33)
M = 0.7(1)
KLI 00 06 1.3 0.4 1.4

28.11.68 (34)
KLI 00 06 1.6

28.11.68 (35)
M = 0.7(1)
KLI 00 07 1.3 1.2 1.3

28.11.68 (36)
M = 1.3(1)
KLI 01 05 1.2 1.0 6.0

28.11.68 (37)
M = 1.2(1)
KLI 01 05 1.3 0.8 4.2

28.11.68 (38)
M = 1.1(1)
KLI 01 10 1.25 0.8 3.2

28.11.68 (39)
M = 1.1(1)
KLI 01 10 1.3 1.0 3.0

28.11.68 (40)
M = 1.1(1)
KLI 01 11 1.3 1.2 3.6

28.11.68 (41)
M = 1.0(1)
KLI 01 19 1.3 1.0 2.8

1969

19.2.69 (1)
M = 1.5(1)
KLI 12 13 1.5 1.5 7.5

1972

24.12.72 (1)
M = 0.2(1)
KLI 14 30 0.75 0.8 2.0

1973

17.1.73 (1)
M = -0.1(1)
KLI 14 00 0.6 0.8 1.5

6.2.73 (2)
M = 0.0(1)
KLI 15 29 (0.5) 2.2
MOX 29 2.0

2.3.73 (3)
PLN 09 39 1.6
MOX 39 1.1+

2.3.73 (4)
PLN 15 49 1.6

3.3.73 (5)
M = 2.2(1)
PLN 05 36 () ()
MOX 36 49.0 7.0 3.0+ 22.5+

3.3.73 (6)
M = 0.4(1)
PLN 05 41 2.8 0.5 1.5
MOX 42 0.8 2.0

3.3.73 (7)
M = 0.4(2)
PLN 05 43 3.3 0.5 1.2
MOX 43 48.5 6.9 1.1 1.2

3.3.73 (8)
M = 0.5(2)
PLN 05 48 2.9 0.7 1.4
MOX 48 18.0 6.9 1.0 2.3

3.3.73 (9)
M = 0.6(2)
PLN 07 08 3.1 1.0 1.5
MOX 08 02.3 7.3 0.9 2.3

3.3.73 (10)
M = 1.7(1)
PLN 07 41 () ()
MOX 41 06.5 8.0 7.6 19.0

3.3.73 (11)
PLN 10 17
MOX 17 2.8

3.3.73 (12)
PLN 10 18
MOX 18 3.2

3.3.73 (13)
M = 2.5(1)
PLN 10 53 () ()
MOX 53 54.0 7.0 3.3+ 40.0+

3.3.73 (14)
M = 0.7(2)
PLN 11 00 3.0 1.3 2.6
MOX 00 10.0 6.5 1.2 3.0

3.3.73 (15)
M = 0.8(2)
PLN 11 03 3.0 0.8 2.8
MOX 03 29.5 7.0 2.2 4.5

4.3.73 (16)
M = 0.9(2)
PLN 00 14 2.8 2.0 4.0
MOX 14 35.5 7.5 1.4 4.5

4.3.73 (17)
M = 1.2(2)
PLN 06 24 2.9 5.0 9.0
MOX 24 49.3 7.2 2.6 7.0

4.3.73 (18)
M = 1.6(1)
PLN 07 14 3.0 () ()
MOX 14 33.2 7.6 8.0 18.0

4.3.73 (19)
M = 0.9(2)
PLN 14 33 3.1 1.8 4.0
MOX 33 40.0 7.3 1.5 4.0

8.3.73 (20)
M = 0.1(1)
KLI 04 13 0.75 2.3

9.3.73 (21)
M = 0.6(3) 50.374 N 12.379 E
KLI 07 51 0.75 3.5 14.0
PLN 51 2.9 0.4 1.7
MOX 51 57.4 7.2 1.4 1.8

9.3.73 (22)
M = -0.1(1)
KLI 11 27 0.5 1.2 2.7

10.3.73 (23)
M = 0.0(1)
KLI 16 33 0.8 1.0 1.8

10.3.73 (24)
M = 1.1(3) 50.403 N 12.452 E
KLI 21 46 0.7 3.6 18.0
PLN 46 2.9 1.9 6.6
MOX 46 57.5 8.0 5.0 8.0

10.3.73 (25)
M = -0.2(1)
KLI 21 47 0.7 1.5

10.3.73 (26)
KLI 21 49 1.2

10.3.73 (27)
M = 1.3(1) (20.0)
KLI 21 50 7.0
PLN 50 7.0
MOX 50 11.5 7.9 3.0 8.0

10.3.73 (28)
M = -0.1(1)
KLI 21 53 0.7 1.2 1.7

10.3.73 (29)
M = 1.4(3) 50.358 N 12.436 E
KLI 21 59 0.75 6.5 37.0
PLN 59 2.9 2.1 12.7
MOX 58 18.6 8.4 10.0 16.0

10.3.73 (30)
M = 50.348 N 12.319 E
KLI 22 00 0.8 4.2 13.0
PLN 00 2.95 0.5 2.6
MOX 00 09.0 7.0 2.0 3.5

10.3.73 (31)
KLI 22 01 1.7

10.3.73 (32)
KLI 22 04 1.4

10.3.73 (33)
KLI 22 06 1.5

10.3.73 (34)
M = -0.1(1)
KLI 22 06 0.8 1.5

10.3.73 (35)
M = 0.1(1)
KLI 22 23 0.85 1.0 2.2

11.3.73 (36)
M = (1.5)(3) 50.360 N 12.387 E
KLI 06 58 (0.7) 18.0
PLN 58 3.1 8.7(40.0)
MOX 58 28.9 7.5 1.0⁺ 6.8⁺

11.3.73 (37)
M = 0.0(1)
KLI 07 16 (0.75)0.8 2.0

11.3.73 (38)
M = 0.5(2)
KLI 07 42 0.8 2.6 5.6
PLN 42 1.4
MOX 43 03.2 7.7 1.0 1.5

11.3.73 (39)
M = (2.1)(2)
KLI 09 05 () ()
PLN 05 2.9 9.1(70.0)
MOX 05 34.1 7.4 1.8⁺ 11.5⁺

11.3.73 (40)
M = 0.3(1)
KLI 09 21 0.8 2.0 3.6
PLN 0.9

11.3.73 (41)
M = 0.7(3) 50.259 N 12.267 E
KLI 11 03 0.75 4.5 13.5
PLN 03 2.9 1.0 2.2
MOX 03 39.2 7.0 1.0 2.9

11.3.73 (42)
M = 0.5(2)
KLI 11 18 0.7 2.3 6.6
PLN 18 1.6
MOX 18 29.5 7.0 1.2 1.6

11.3.73 (43)
M = 2.3(1)
KLI 12 17 () ()
PLN 17 () ()
MOX 17 28.5 7.5 3.0⁺ 32.0⁺

11.3.73 (44)
M = 2.7(1)
KLI 12 17 () ()
PLN 17 () ()
MOX 17 32.5 7.5 7.0⁺ 80.0⁺

11.3.73 (45)
KLI 12 18 16.0

11.3.73 (46)
M = 0.8(3) 50.386 N 12.414 E
KLI 12 21 0.75 6.0 13.0
PLN 21 3.1 2.1 2.6
MOX 21 28.5 7.4 1.8 3.5

11.3.73 (47)
KLI 12 22 1.3
PLN 1.0

11.3.73 (48)
M = -0.2(1)
KLI 12 23 0.8 0.5 1.2

11.3.73 (49)
KLI 12 25 3.0

11.3.73 (50)
KLI 12 25 1.1
MOX 25 1.7

11.3.73 (51)
M = 0.0(1)
KLI 12 28 0.8 1.2 2.0

11.3.73 (52)
KLI 12 30 1.2

11.3.73 (53)
KLI 12 30 1.4

11.3.73 (54)
M = (0.6)(3)
KLI 12 32 0.7 5.8 (10.0)
PLN 32 2.8 0.5 1.8
MOX 32 38.0 7.5 0.8 2.5

11.3.73 (55)
M = 0.5(2)
PLN 12 38 3.0 0.7 1.5
MOX 12 38 36.2 7.2 1.4 1.6

11.3.73 (56)
M = 0.5(2)
PLN 12 47 3.0 0.7 1.6
MOX 47 07.5 7.7 1.1 1.7

11.3.73 (57)
M = -0.1(1)
KLI 14 13 0.7 0.7 2.0

11.3.73 (58)
M = 0.4(2)
KLI 14 16 0.8 1.2 5.0
PLN 16 1.5
MOX 16 18.5 7.1 1.3 1.8

11.3.73 (59)
KLI 14 41 0.7 1.0 2.5

11.3.73 (60)
KLI 15 22 3.0

11.3.73 (61)
M = 0.7(3) 50.068 N 12.130 E
KLI 16 52 0.75 0.7 3.1
PLN 52 3.1 1.2 5.7
MOX 52 48.0 7.0 1.0 3.5

11.3.73 (62)
M = 0.3(1)
KLI 18 11 0.85 1.4 3.2

11.3.73 (63)
M = 0.0(1)
KLI 22 17 0.7 0.5 2.6
PLN 17 1.4

12.3.73 (64)
KLI 04 19 1.5

12.3.73 (65)
M = 0.7(2)
KLI 04 19 0.75 3.5 7.5
PLN 19 1.3
MOX 20 07 7.2 1.2 3.4

13.3.73 (66)
M = 0.1(1)
KLI 02 07 0.75 0.7 2.7

13.3.73 (67)
M = 0.2(1)
KLI 03 20 0.75 0.7 3.1

17.3.73 (68)
M = 0.1(1)
KLI 01 02 0.7 1.5 3.0
MOX 02 1.4

18.3.73 (69)
M = 0.5(1)
KLI 01 45 0.8 1.1 5.4
PLN 45 1.6

21.3.73 (70)
M = 0.4(1)
KLI 03 32 0.8 2.2 4.2
PLN 32
MOX 32 1.8

3.4.73 (71)
M = 1.3(2)
KLI 12 16 2.2 1.8 4.0
PLN 16 2.85 4.5 27.0

9.4.73 (72)
M = 1.2(3) 50.552 N 12.395 E
PLN 15 39 2.0 10.5 43.0
KLI 39 3.1 2.0 4.0
MOX 39 23.0 7.4 1.5 2.1

16.4.73 (73)
M = 0.2(1)
KLI 00 03 0.7 1.2 3.2

28.4.73 (74)
KLI 12 36 4.0

28.4.73 (75)
KLI 12 36 1.2 12.0
PLN 36 1.1 1.3

5.5.73 (76)
M = -0.1(1)
KLI 10 33 0.7 1.2 2.1

5.5.73 (77)
M = 0.2(1)
KLI 10 33 0.7 1.8 3.4

5.5.73 (78)
M = -0.2(1)
KLI 10 33 0.7 1.0 1.4

5.5.73 (79)
M = 0.5(1)
KLI 10 35 0.75 3.6 7.1

5.5.73 (80)
M = -0.2(1)
KLI 10 51 0.7 0.5 1.6

5.5.73 (81)
M = 0.0(1)
KLI 11 19 0.7 1.5 2.1
PLN 1.7

16.5.73 (82)
M = 0.3(1)
KLI 10 39 0.6 1.8 5.5

19.5.73 (83)
M = 0.6(1)
KLI 15 35 1.4 2.4 3.0
PLN 35 (1.0)

21.5.73 (84)
M = 0.9(1)
KLI 18 16 1.8 8.2 4.2

23.5.73 (85)
M = 0.8(3) 50.412 N 12.410 E
KLI 06 40 0.9 6.0 11.5
PLN 40 2.75 2.2 3.0
MOX 40 37.5 7.3 1.6 4.0

6.6.73 (86)
M = 0.5(1)
KLI 15 05 1.45 1.8 2.4

7.6.73 (87)
M = 0.9(2)
KLI 15 34 1.6 2.3 7.0
PLN 34 3.8 4.4
MOX 35 03.0 7.4 0.9 2.6

8.6.73 (88)
M = 1.5(4) 50.345 N 12.395 E
KLI 02 47 0.8 11.0 38.0
BDE 47 1.6 0.7 5.0
PLN 47 3.0 5.3 13.0
MOX 47 49.5 7.9 5.8 12.5

8.6.73 (89)
M = 0.9(1)
KLI 16 40 0.8 5.5 15.0
PLN 40 2.9 3.7 5.0
MOX 40 54.2 2.3 7.2

8.6.73 (90)
M = 0.8(3) 50.360 N 12.414 E
KLI 18 24 0.8 1.2 8.0
PLN 24 3.3 1.1 2.7
MOX 24 39.5 7.6 1.2 3.6

8.6.73 (91)
M = 0.3(2)
KLI 21 08 0.7 (1.3) 3.1
MOX 08(20.5) (6.8) 1.3

8.6.73 (92)
M = 0.5(1)
KLI 23 57 0.7 3.3 7.3
MOX 57 2.5

9.6.73 (93)
M = 1.2(3) 50.359 N 12.386 E
KLI 02 49 0.8 3.5 20.0
BDE 49 1.7 0.3 3.3
MOX 49 43.5 7.6 1.6 6.1

9.6.73 (94)
M = 0.9(1)
KLI 02 50 0.8 3.6 15.0
BDE 50 2.0
MOX 50 2.4

9.6.73 (95)
M = (0.3)(1)
KLI 02 50 (0.7)(2.2)(4.2)
BDE 50 1.1

9.6.73 (96)
M = 0.7(1)
KLI 02 50 0.75 2.4 10.0
BDE 50 1.2
MOX 50 3.3

11.6.73 (97)
M = 1.0(3) 50.362 N 12.373 E
KLI 12 35 0.8 6.0 15.0
BDE 35 1.6 0.4 1.8
MOX 35 10.5 7.4 2.0 4.3

14.6.73 (98)
KLI 12 22 6.0

14.6.73 (99)
M = -0.4(1)
KLI 12 22 0.25 2.2 4.4

1.7.73 (100)
M = 0.2(1)
KLI 13 05 0.8 1.0 3.0
PLN 05 0.9

23.7.73 (101)
M = 1.0(3)
KLI 11 48 3.2 0.6 2.0
PLN 48 4.0 1.4 4.0
MOX 48 7.7 1.7 4.2

24.7.73 (102)
M = 0.8(1)
KLI 19 08 1.45 1.1 4.5

28.7.73 (103)
M = 0.9(1)
KLI 15 23 1.8 2.0 4.0

30.7.73 (104)
M = 0.9(1)
KLI 12 38 3.1 1.1 1.8

4.8.73 (105)
M = 0.0(1)
KLI 19 46 0.55 1.5 3.6

6.8.73 (106)
M = 0.7(2)
KLI 11 22 1.6 2.2 4.4
PLN 2.9 0.7 2.0
MOX 1.8

6.8.73 (107)
M = 0.5(1)
KLI 13 20 1.65 1.0 2.2

6.8.73 (108)
M = 0.5(1)
KLI 13 20 1.6 0.5 2.2

6.8.73 (109)
KLI 17 00 1.7

6.8.73 (110)
M = 0.9(2)
KLI 17 05 1.5 2.6 6.3
MOX 05 18.3 7.7 2.3 3.0

17.8.73 (111)
M = 0.7(2)
KLI 06 27 1.3 2.1 5.5
MOX 27 21.8 7.8 1.5 1.7

17.8.73 (112)
M = 0.6(2)
KLI 17 38 1.3 1.8 4.0
MOX 39 04.9 8.1 1.0 1.3

21.8.73 (113)
M = 0.6(1)
KLI 09 29 1.3 1.5 3.1

21.8.73 (114)
M = 0.5(1)
KLI 09 43 1.3 (0.5) 2.4

12.9.73 (115)
M = -0.2(1)
KLI 12 03 0.5 (0.3) 2.0

25.9.73 (116)
M = 0.5(1)
KLI 08 15 1.5 0.7 2.5

17.10.73 (117)
KLI 23 10 1.5

7.11.73 (118)
M = 0.7(2)
KLI 13 58 1.5 2.0 3.8
PLN 58 2.8 4.5 3.5
MOX 58 2.5

21.11.73 (119)
M = 0.7(1)
KLI 14 19 1.2 1.6 4.5
MOX 19 1.4

30.12.73 (120)
M = 1.6(3) 50.304 N 12.397 E
KLI 22 29 1.4 17.0 35.0
BDE 29 1.75 1.7 6.2
PLN 29 3.6 6.5 ()
MOX 29 19.0 8.0 5.8 9.5

30.12.73 (121)
M = 1.3(4) 50.308 N 12.391 E
KLI 22 43 1.5 12.0 19.0
BDE 43 1.8 0.4 3.5
PLN 43 3.4 3.5 6.5
MOX 43 42.3 8.0 4.5 5.0

1 9 7 4

25.5.74 (1)
M = 1.0(3) 50.439 N 12.522 E
KLI 23 25 1.35 4.5 10.5
PLN 25 3.4 1.8 3.7
MOX 25 33.5 8.3 4.7 3.8

22.9.74 (2)
M = 0.2(1)
KLI 18 12 0.75 1.5 3.0

24.9.74 (3)
KLI 13 33 5.5

24.9.74 (4)
KLI 13 42 4.2

24.9.74 (5)
KLI 13 58 3.5
BDE 58 (1.3)

24.9.74 (6)
KLI 14 29 3.5

24.9.74 (7)
KLI 15 18 4.0

28.9.74 (8)
M = 0.9(1)
KLI 04 26 2.3 0.9 3.2

24.10.74 (9)
M = 0.1(1)
KLI 04 56 0.45 2.5 5.2

25.10.74 (10)
M = 0.2(1)
KLI 10 15 0.55 2.4 4.8

25.10.74 (11)
M = -0.1(1)
KLI 11 12 0.6 1.8 2.3

25.10.74 (12)
KLI 14 25 0.45 3.0

25.10.74 (13)
M = -0.1(1)
KLI 14 31 0.45 1.7 3.4

14.12.74 (14)
M = 0.2(1)
KLI 01 43 0.7 1.5 3.3

14.12.74 (15)
M = -0.1(1)
KLI 02 15 0.6 0.6 2.1

14.12.74 (16)
M = 0.2(1)
KLI 02 15 0.65 2.1 4.0

14.12.74 (17)
M = 0.0(1)
KLI 07 42 0.7 0.8 2.3

14.12.74 (18)
M = -0.1(1)
KLI 12 30 0.6 1.2 2.4

14.12.74 (19)
M = 0.1(1)
KLI 17 36 0.7 1.4 2.9

14.12.74 (20)
M = 0.0(1)
KLI 17 46 0.65 1.3 2.4

14.12.74 (21)
M = 0.0(1)
KLI 17 53 0.65 1.5 2.5

14.12.74 (22)
M = 0.5(1)
KLI 20 06 0.7 4.0 7.4
BDE 06 0.8

14.12.74 (23)
M = -0.1(1)
KLI 20 25 0.65 0.3 2.0

14.12.74 (24)
M = 0.1(1)
KLI 20 38 0.65 1.5 3.2

14.12.74 (25)
M = 0.4(1)
KLI 20 41 0.65 2.3 5.8

14.12.74 (26)
M = -0.2(1)
KLI 20 41 0.65 1.5

15.12.74 (27)
M = 0.3(1)
KLI 01 55 0.7 2.2 4.3

15.12.74 (28)
M = 0.1(1)
KLI 02 10 0.7 0.8 2.7

15.12.74 (29)
KLI 02 10 1.9

15.12.74 (30)
KLI 21 43 1.7

18.12.74 (31)
M = 0.4(1)
KLI 00 47 0.7 2.5 6.0

18.12.74 (32)
M = -0.1(1)
KLI 16 17 0.75 1.8

18.12.74 (33)
M = 0.0(1)
KLI 16 48 0.7 0.8 2.2

19.12.74 (34)
M = -0.1(1)
KLI 05 44 0.7 0.9 2.0

19.12.74 (35)
M = 0.4(1)
KLI 05 46 0.65 2.2 5.7

20.12.74 (36)
M = 0.3(1)
KLI 02 25 0.6 3.0 6.0
BDE 0.4

20.12.74 (37)
M = 1.0(4) 50.375 N 12.376 E
KLI 05 28 0.65 3.0 16.0
BDE 28 1.8 0.1 2.3
PLN 28 2.8 0.9 3.4
MOX 28 59.5 7.0 2.5 3.4

21.12.74 (38)
M = 0.6(2)
KLI 01 36 0.65 2.0 4.9
BDE 36 1.6 0.7

21.12.74 (39)
M = -0.1(1)
KLI 01 39 0.6 0.6 2.1

21.12.74 (40)
M = 1.5(3) 50.357 N 12.406 E
KLI 01 47 0.65 10.0 31.0
BDE 47 1.8 2.2
PLN 47 3.0 5.5 23.0
MOX 47 50.3 7.8 13.0 27.0

21.12.74 (41)
M = -0.1(1)
KLI 01 48 0.6 1.2 2.4

21.12.74 (42)
M = -0.1(1)
KLI 01 49 0.7 1.0 2.0

21.12.74 (43)
M = -0.1(1)
KLI 01 52 0.65 1.2 2.0

21.12.74 (44)
M = 0.6(4) 50.350 N 12.391 E
KLI 01 56 0.7 3.5 0.9
BDE 56 1.6 0.7
PLN 56 3.2 0.8 2.5
MOX 56 54.3 7.5 1.4 2.4

21.12.74 (45)
M = -0.2(1)
KLI 05 19 0.7 0.7 1.6

31.12.74 (46)
M = 0.1(1)
KLI 00 34 0.7 0.7 2.8

31.12.74 (47)
M = -0.1(1)
KLI 01 10 0.65 0.7 2.1

31.12.74 (48)
M = 0.3(1)
KLI 01 32 0.7 1.7 4.4

31.12.74 (49)
M = 0.2(1)
KLI 10 37 0.7 1.7 3.4

1 9 7 5

1.1.75 (1)
M = -0.1(1)
KLI 04 00 0.7 1.2 2.0

3.1.75 (2)
M = -0.1(1)
KLI 02 46 0.65 0.8 1.9

03.1.75 (3)
M = 0.0(1)
KLI 22 43 0.7 1.2 2.2

04.1.75 (4)
M = 0.2(1)
KLI 23 37 0.7 2.0 3.2

7.1.75 (5)
M = -0.1(1)
KLI 16 47 0.7 1.2 1.8

7.1.75 (6)
M = -0.2(1)
KLI 17 22 0.65 0.5 1.5

8.1.75 (7)
M = 0.2(1)
KLI 02 17 0.7 2.4 3.8

10.1.75 (8)
M = 0.2(1)
KLI 04 18 0.65 2.0 3.9

19.1.75 (9)
M = 1.6(3) 50.409 N 12.568 E
KLI 07 15 1.35 7.0 35.0
PLN 15 3.65 13.0 15.0
MOX 15 24.9 9.0 12.0 17.0

19.1.75 (10)
M = 0.9(2)
KLI 07 15 1.35 3.0 7.5
PLN 15 4.2 2.0 2.0

19.1.75 (11)
KLI 07 15 1.4 4.5

19.1.75 (12)
M = (1.8)(2)
KLI 07 27 1.35 15.0 42.0
PLN 27 (40.0)(40.0)
MOX 07 27 36.5 8.7 (12.5)(30.0)

19.1.75 (13)
M = 0.8(1)
KLI 07 28 1.35 2.2 5.0

19.1.75 (14)
M = 0.6(1)
KLI 07 32 1.45 4.0 3.0

16.2.75 (15)
M = 1.0(1)
KLI 19 47 (2.0)
BDE 47 4.5
PLN 47 3.8
MOX 47 10.2 8.1 2.4 3.9

16.2.75 (16)
M = 0.3(1)
KLI 19 47 1.35 0.5 1.8
BDE 47 0.5

16.2.75 (17)
M = 0.5(1)
KLI 19 48 1.35 1.5 2.7

16.2.75 (18)
M = 0.3(1)
KLI 19 55 1.3 0.4 1.6

16.2.75 (19)
M = 0.7(2)
KLI 19 55 1.3 1.7 4.0
BDE 55 1.8
PLN 55 2.2
MOX 55 50.8 8.2 1.2 2.0

16.2.75 (20)
M = 0.7(3) 50.292 N 12.439 E
KLI 19 57 1.3 0.5 3.9
BDE 57 0.8
PLN 57 4.3 0.8 1.8
MOX 57 26.5 8.1 0.9 1.5

16.2.75 (21)
M = 0.5(2)
KLI 19 58 1.35 0.5 3.0
BDE 58 0.8
PLN 58 1.7
MOX 59 02.4 7.8 1.0 1.3

16.2.75 (22)
KLI 20 14 1.6
BDE 14 0.8

16.2.75 (23)
M = 0.2(1)
KLI 20 27 1.3 1.4
BDE 27 0.6

16.2.75 (24)
KLI 20 27 2.0
BDE 27 0.8

16.2.75 (25)
M = 0.3(1)
KLI 20 29 1.4 1.2 1.5
BDE 29 0.8

16.2.75 (26)
KLI 20 31 1.8
BDE 31 0.7

16.2.75 (27)
M = 0.6(1)
KLI 20 37 1.3 1.2 3.3
BDE 37 1.3
PLN 37 2.2
MOX 37 52 1.0

16.2.75 (28)
M = 0.4(2)
KLI 20 38 1.25 0.5 2.5
BDE 38 1.1
MOX 38 38.8 8.1 1.0 1.2

16.2.75 (29)
BDE 21 15 0.5
KLI 15 3.0

24.2.75 (30)
M = 0.2(1)
KLI 10 49 0.7 1.4 3.5

1.3.75 (31)
M = 0.2(1)
KLI 05 06 0.75 1.5 3.0

1.3.75 (32)
KLI 14 07 2.6

29.5.75 (33)
M = 1.0(4) 50.297 N 12.390 E
KLI 15 46 54.8 1.5 3.5 6.2
BDE 46 1.75 0.4 1.2
PLN 46 3.8 3.8 6.8
MOX 47 05.1 7.8 3.3 1.9

16.7.75 (34)
M = 1.4(3) 50.518 N 12.525 E
KLI 18 09 08.7 2.4 10.0 8.0
PLN 09 10.2 3.2 9.0 18.5
MOX 09 17.2 8.2 7.2 5.0

20.8.75 (35)
M = 0.4(1)
KLI 01 29 05.2 0.75 2.1 5.8
PLN 29 1.2

20.8.75 (36)
M = 0.0(1)
KLI 01 57 33.2 0.75 0.5 2.1

20.8.75 (37)
M = -0.2(1)
KLI 03 30 37.8 0.75 0.8 1.5

20.8.75 (38)
KLI 03 30 1.1

20.8.75 (39)
M = (0.3)(1)
KLI 05 05 59.9 0.75 1.6 (4.0)
PLN 06 2.4
MOX 06 11.0 1.4

20.8.75 (40)
M = (1.4)(3) 50.388 N 12.366 E
KLI 05 06 06.3 0.75 11.0 30.0
PLN 06 09.7 3.3 4.6 30.0
MOX 06 16.1 6.1 9.0(10.0)

20.8.75 (41)
KLI 05 06 2.1

20.8.75 (42)
KLI 05 07 1.4

20.8.75 (43)
M = 0.1(1)
KLI 05 16 11.3 0.75 0.5 2.4

20.8.75 (44)
M = 0.1(1)
KLI 13 29 30.1 0.75 0.8 2.4

20.8.75 (45)
M = 0.8(3) 50.383 N 12.406 E
KLI 14 29 52.8 0.7 6.5 17.0
PLN 29 55.5 2.9 1.2 4.5
MOX 30 03.5 7.5 2.4 3.1

20.8.75 (46)
M = 0.6(2)
KLI 14 32 07.4 0.75 2.7 7.5
PLN 32 2.0
MOX 32 18.4 7.5 1.0 2.4

30.11.75 (47)
M = 0.7(1)
KLI 20 14 12.5 1.7 2.3 3.2

30.11.75 (48)
M = 0.1(1)
KLI 21 04 23.3 1.85 0.5 0.6

1.12.75 (49)
M = 0.5(1)
KLI 00 50 19.4 1.85 1.0 1.6

1.12.75 (50)
M = 0.5(1)
KLI 00 53 41.0 1.85 0.9 1.6

1.12.75 (51)
M = 0.8(1)
KLI 08 46 53.5 1.7 2.2 3.6

1.12.75 (52)
M = 0.6(1)
KLI 08 47 13.5 1.8 0.7 2.2

1.12.75 (53)
M = 0.5(1)
KLI 11 15 11.6 1.7 0.7 2.0

1.12.75 (54)
M = 0.5(1)
KLI 21 18 17.8 1.8 1.5 1.8

1.12.75 (55)
M = 0.9(3) 50.345 N 12.626 E
KLI 21 18 38.3 1.7 2.6 4.2
PLN 18 41.0 4.3 2.0 2.4
MOX 18 48.2 9.9 2.1 2.0

1 9 7 6

30.7.76 (1)
M = 0.5(3) 50.516 N 12.234 E
PLN 20 01 53.0 1.4 3.0 5.0
BDE 01 1.1
KLI 01 53.6 2.5 1.1 1.6
MOX 01 59.5 5.0 0.6 1.8

30.7.76 (2)
M = 0.7(3) 50.510 N 12.244 E
PLN 20 19 52.5 1.4 2.0 7.0
BDE 19 2.3
KLI 19 53.4 2.5 1.5 2.3
MOX 19 58.7 5.2 1.4 2.8

4.8.76 (3)
M = (0.9)(4) 50.427 N 12.190 E
PIN 00 23 1.45 6.5 (15.5)
BDE 23 2.4 0.4 0.5
KLI 23 54.5 2.5 2.5 3.8
MOX 23 59.5 5.5 1.9 7.3

1.9.76 (4)
M = 1.0(4) 50.239 N 12.363 E
BDE 04 18 1.45 2.6 4.2
KLI 18 32.5 2.3 4.0 3.4
PLN 18 34.8 3.9 2.0 3.4
MOX 18 41.3 8.7 3.5 4.5

28.12.76 (5)
M = 1.1(3) 50.497 N 12.478 E
KLI 02 59 11.2 2.1 3.0 4.6
PLN 59 2.7 3.5 8.5
MOX 59 18.8 8.0 9.8 5.5

1 9 7 7

1.6.77 (1)
M = 0.9(3) 50.464 N 12.389 E
BDE 02 24 2.5 1.0 3.3
KLI 24 33.5 2.5 0.4 1.5
PLN 24 1.8
MOX 24 45.0 7.8 1.2 2.2

13.7.77 (2)
M = (0.2)(2) 0.9 8.0 (13.0)
EUB 00 56 1.7
KLI 56 06.0 (1.2)

12.11.77 (3)
M = 0.9(2)
BDE 23 32 1.6 3.0 8.4
KLI 32 04.5 2.7 3.0 1.6

14.11.77 (4)
M = 0.7(3) 50.218 N 12.319 E
BDE 02 05 1.6 1.6 7.0
KLI 05 38.2 2.7 2.0 0.6
MOX 05 46.7 8.3 1.2 3.0

14.11.77 (5)
M = 0.8(4) 50.210 N 12.316 E
BDE 22 46 1.6 1.5 6.5
KLI 46 24.0 2.8 2.4 0.8
PLN 46 25.5 4.2 1.6 3.0
MOX 46 32.3 8.4 1.3 4.5

14.12.77 (6)
M = 1.4(4) 50.222 N 12.331 E
BDE 15 18 1.75 11.0 26.0
KLI 18 30.8 2.6 9.0 3.0
PLN 18 32.8 4.1 1.5 13.5
MOX 18 39.2 8.2 8.8 13.0

1978

6.1.78 (1)
M = 1.6(4) 50.249 N 12.057 E
BDE 12 29 2.2 7.0 56.0
KLI 29 53.0 3.9 2.8 6.0
PLN 29 54.0 6.4 6.0 47.0
MOX 30 00.0 6.7 (6.0)14.0

23.1.78 (2)
M = 1.2(2) 50.368 N 12.406 E
KLI 18 33 11.8 0.1 6.0
BDE 33 1.7 7.0 27.0
PLN 33 13.6 34.2 2.0 9.8
MOX 33 20.2 7.0

23.1.78 (3)
M = 1.7(2) 50.359 N 12.439 E
KLI 18 33 40.6 0.1 11.0
BDE 33 1.7 15.0 44.0
PLN 33 42.5 3.2 6.0 26.0
MOX 33 48.7

17.2.78 (4)
M = 1.6(4) 50.254 N 12.330 E
BDE 00 37 1.4 12.0 38.0
EUB 37 03.1
KLI 37 04.1 2.45 12.0 20.0
PLN 37 06.15 3.35 3.8 25.0
MOX 37 12.3 8.3 8.5 13.0

17.2.78 (5)
M = 0.3(1)
EUB 01 50.36.0 2.2 2.6 3.0

17.2.78 (6)
M = 0.3(1)
EUB 02 03 09.3 2.2 0.3 3.3

30.3.78 (7)
M = 0.3(1)
EUB 00 52 06.2 2.2 1.8 3.5

30.3.78 (8)
M = 0.3(1)
EUB 03 15 29.4 2.4 2.2 3.0

30.3.78 (9)
M = 0.5(2)
BDE 03 16 1.7 0.5 2.2
EUB 16 47.0 2.2 5.6 5.6
PLN 16 1.4

30.3.78 (10)
M = 0.0(1)
EUB 03 20 12.5 2.2 3.0 1.8

30.3.78 (11)
M = 1.1(3) 50.195 N 12.228 E
BDE 03 20 1.7 3.8 10.0
EUB 20 57.7 2.2
KLI 20 58.7 2.5
PLN 21 00.5 4.2 0.8 4.6
MOX 21 06.5 8.0 3.0 4.2

30.3.78 (12)
M = 0.4(1)
EUB 04 09 14.7 2.2 1.8 3.8

30.3.78 (13)
M = 0.4(1)
EUB 04 39 41.2 2.4 2.0 4.0

1.9.78 (14)
M = 2.2(3) 50.130 N 12.321 E
BDE 11 00 2.5 9.0 170.0
PLN 00 34.5 5.2 5.2 47.0
MOX 00 39.8 9.25 12.0 19.0

3.10.78 (15)
M = 1.3(1)
BDE 10 20 2.0 2.0 14.0

2.12.78 (16)
M = 1.1(4) 50.270 N 12.419 E
KLI 09 52 12.5 1.8 3.0 5.6
BDE 52 2.0 1.6 12.0
PLN 52 15.5 3.9 1.9 4.0
MOX 52 22.2 8.5 1.2 5.5

19.12.78 (17)
M = 1.7(4) 50.278 N 12.427 E
KLI 07 31 10.5 1.75 10.0 10.0
BDE 31 2.05 12.0 20.0
PLN 31 13.0 3.6 7.0 28.0
MOX 31 20.1 8.7 10.5 12.5

19.12.78 (18)
M = 0.7(4) 50.298 N 12.398 E
KLI 08 01 02.2 1.75 1.2 2.1
BDE 01 2.15 2.2 2.5
PLN 01 04.9 3.6 0.8 2.0
MOX 01 12.1 7.8 2.7 1.1

19.12.78 (19)
M = 0.5(3) 50.279 N 12.414 E
KLI 08 04 48.2 1.85 1.6 1.5
BDE 04 2.2 1.6 1.5
PLN 04 1.8
MOX 04 57.6 8.15 1.4 1.2

1979

18.2.78 (1)
M = 1.4(4) 50.034 N 12.344 E
BDE 17 35 4.05 1.2 6.0
KLI 35 56.4 4.6 1.0 4.5
PLN 35 58.0 6.7 1.3 5.6
MOX 36 03.0 10.0 3.6 4.0

2.3.79 (2)
M = (2.0)(4) 49.866 N 12.219 E
EDE 16 11 5.85 4.0 16.0
KLI 11 38.5 7.3 2.2 6.5
PLN 11 39.8 8.3 11.0 16.0
MOX 11 43.7 11.7(22.0)(24.0)

15.3.79 (3)
KLI 13 13 19.5 11.0

25.3.79 (4)
M = 1.4(3) 50.005 N 12.251 E
BDE 01 56 4.0 1.7 9.0
PLN 57 01.6 6.7 1.0 4.4
MOX 57 07.2 10.2 4.2 3.8

19.5.79 (5)
M = 0.8(4) 50.327 N 12.371 E
KLI 02 29 27.7 1.45 0.9 4.1
BDE 29 1.9 1.3 4.5
PLN 29 30.7 3.7 1.0 3.5
MOX 29 38.0 7.1 1.6 3.9

6.9.79 (6)
M = 0.8(4) 50.424 N 12.426 E
EUB 03 54 22.8 2.3 8.0 8.0
BDE 54 2.4 1.0 4.0
PLN 54 23.7 3.1 2.5 4.5
MOX 54 30.3 7.4 6.0 6.0

1980

2.1.80 (1)
M = 1.0(4) 50.422 N 12.181 E
PLN 01 49 42.2 3.0
BDE 49 2.2 2.0 29.0
EUB 49 43.8 2.3 8.0 15.0
KLI 49 43.8 2.6 3.0 3.0
MOX 49 49.2 5.2 3.2 6.5

24.1.80 (2)
M = 0.4(1)
EUB 02 32 14.3 1.5 6.4 8.0

24.1.80 (3)
M = 0.3(1)
EUB 02 33 56.6 1.5 4.8 6.1

24.1.80 (4)
M = 0.4(1)
EUB 02 34 49.7 1.5 3.8 6.6

24.1.80 (5)
M = 0.6(3) 50.389 N 12.318 E
EUB 03 41 24.2 1.5 9.4 18.0
KLI 41 24.7 1.8 2.4 3.2
BDE 41 2.0 4.0 5.8

24.1.80 (6)
M = 0.5(2)
EUB 03 41 40.7 1.5 2.0 11.6
KLI 41 41.0 1.7 1.5 1.2

24.1.80 (7)
M = -0.1(1)
BDE 03 44 2.0 1.8 1.8

24.1.80 (8)
M = -0.2(1)
EUB 03 48 40.5 1.6 1.4 1.8

24.1.80 (9)
M = -0.3(1)
EUB 04 02 21.3 1.5 1.2 1.4

24.1.80 (10)
M = -0.3(1)
EUB 04 04 24.5 1.5 1.1 1.4

24.1.80 (11)
M = 0.3(3) 50.385 N 12.321 E
EUB 04 24 07.8 1.4 8.2 13.4
KLI 24 08.3 1.8 1.4 1.6
BDE 24 2.0 2.0 2.0

24.1.80 (12)
M = -0.1(1)
EUB 04 30 26.0 1.5 1.3 2.4

24.1.80 (13)
M = (0.5)(5) 50.269 N 12.451 E
EUB 06 07 07.0 1.5 5.7 (12.0)
KLI 07 07.4 1.8 1.8 2.4
BDE 07 2.0 3.1 4.0
PIN 07 10.8 3.3 0.6 1.2
MOX 07 17.7 9.2 1.6 1.3

24.1.80 (14)
M = (0.3)(3) 50.389 N 12.318 E
EUB 07 18 28.7 1.5 3.6 (10.0)
KLI 18 29.0 1.8 1.3 1.6
BDE 18 2.0 2.3 2.1

24.1.80 (15)
M = 0.3(3) 50.387 N 12.320 E
EUB 07 41 30.1 1.45 2.2 7.2
KLI 41 30.5 1.8 1.6 1.6
BDE 41 2.0 1.8 2.0

24.1.80 (16)
M = 0.7(4) 50.260 N 12.458 E
KLI 10 35 32.5 1.8 3.0 4.3
BDE 35 2.0 6.2 8.4
PIN 35 35.5 3.85 1.0 1.8
MOX 35 42.2 9.5 2.4 2.4

24.1.80 (17)
M = 1.1(3) 50.254 N 12.476 E
KLI 13 17 44.0 1.7 4.0 7.0
BDE 17 2.0 20.0 28.0
MOX 17 53.6 9.6 5.7 5.0

24.1.80 (18)
M = 0.5(3) 50.279 N 12.438 E
KLI 13 30 59.2 2.8
BDE 30 2.0 4.6 3.8
PIN 31 02.2 3.8 0.7 2.0
MOX 31 08.7 8.8 1.6 1.9

24.1.80 (19)
M = 0.9(4) 50.259 N 12.469 E
KLI 15 03 06.7 1.8 3.2 5.0
BDE 03 2.0 8.5 9.2
PIN 03 09.8 3.8 1.8 2.4
MOX 03 16.7 9.8 3.1 2.7

24.1.80 (20)
M = 0.4(2)
KLI 15 06 38.3 1.8 1.8 2.2
BDE 06 2.05 2.2 3.8
MOX 06 48.1 1.5

24.1.80 (21)
M = 0.4(3) 50.241 N 12.468 E
KLI 16 14 18.7 1.9 1.8 1.8
BDE 14 2.0 2.4 3.0
MOX 14 28.1 9.6 1.4 1.2

17.6.80 (22)
M = 0.6(1)
KLI 19 22 24.5 3.6
EUB 22 1.9 8.2 8.2

17.6.80 (23)
M = 0.3(1)
KLI 20 19 50.0 1.4
EUB 19 2.0 5.2 3.5

17.6.80 (24)
M = 0.9(4) 50.422 N 12.344 E
KLI 20 19 55.3 1.8 1.1 4.8
EUB 19 2.0 12.5 11.0
PIN 19 56 2.5 1.2 6.2
MOX 20 04.8 6.8 3.5 4.5

17.6.80 (25)
M = 0.3(1)
KLI 20 30 1.7
EUB 30 1.95 3.9 4.0

17.6.80 (26)
M = 1.2(4) 50.354 N 12.248 E
KLI 21 24 52.5 1.9 2.0 15.0
EUB 24 (2.0) 24.0 27.0
PIN 24 52.5 2.6 3.5 10.0
MOX 25 01.8 6.5 6.2 8.0

20.10.80 (27)
M = 1.0(4) 50.328 N 12.390 E
KLI 17 02 45.6 1.4 4.8 10.4
BDE 02 2.1 6.3 24.0
PIN 02 48.3 3.7 2.9 3.3
MOX 02 56.3 7.3 2.7 5.3

20.10.80 (28)
M = 0.6(3) 50.290 N 12.429 E
KLI 17 09 51.0 1.5 2.1 3.7
BDE 09 2.0 2.1 6.0
PIN 09 53.8 3.7 1.6 1.7
MOX 1.5

28.11.80 (29)
M = 0.7(3) 50.196 N 12.304 E
BDE 03 26 1.8 5.0 11.0
KLI 27 21.5 2.8 1.0 1.6
MOX 27 29.5 8.4 1.9 2.7

1 9 8 1

26.1.81 (1)
M = 1.1(2)
PIN (08 00) 1.8 3.5 9.0
KLI (08 00) 3.4 2.8 4.0

24.
M =
EUB
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24.
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BDE

24.1
M =
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M =
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Petrophysik

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