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AKADEMIE DER WISSENSCHAFTEN DER DDR
Zentralinstitut für Physik der Erde (ZIPE)

Seismological Bulletin 1976 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth, and Joachim Weyrauch

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With 1 Figure

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PREFACE

The annual Seismological Bulletin 1976 for the Station Moxa (MOX) continues the series of publications about seismological records at the Station Moxa edited by the Central Earth Physics Institute of the Academy of Sciences of the German Democratic Republic.

The provisional analysis of the records of station Moxa was performed in the Seismological Service under the direction of JOHANNES STELZNER by JOACHIM WEYRAUCH and BRIGITTE HÄNSCH.

The annual Bulletin 1976 was prepared by DOROTHEA GÜTH and JOACHIM WEYRAUCH with the technical assistance of URSULA DÖRING.

Control of the instruments of the station Moxa was carried out under the direction of CHRISTIAN TEUPSER.

H. KAUTZLEBEN
Director

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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 ($D < 10°$)

Pb, Pn — guided longitudinal head waves along the CONRAD- or MOHOROVIČIĆ-discontinuity ($D < 10°$)

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 ($D < 10°$)

Sb, Sn — guided transversal head waves along the CONRAD- or MOHOROVIČIĆ-discontinuity ($D < 10°$)

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 $23° < D < 40°$ after BÅTH [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 nm = 1 nanometre = 10^{-6} 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 μm = 1 micrometre = 10^{-3} 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 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 (°), calculated according to geocentric coordinates, the maximum error of the own calculations amounts to ± 0,1°

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, Denver, Colorado, USA

BCIS — Bureau Central International de Seismologie, Strasbourg, France

ANUSSR — Akademia Nauk USSR, Moscow, USSR

AEC — United States Atomic Energy Commission, Washington, D.

ISC — International Seismological Centre, Newbury, UK

NORSAR — Norwegian Seismic Array, Kjeller, Norway

All source data given in ehe column "Remarks" which are not the result of Moxa data evaluations are followed in brackets by the abbreviation of the reporting agency or station, repsectively (e. g. NEIS, ISC, PRU). For abbreviations 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] BÅTH, 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: $\varphi = 50°38'46''N \quad \lambda = 11°36'58''E$

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

Telex: 058 86275 seis dd

Seismographs and their parameters 1976

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

Seismological Recordings at Station Moxa 1976

Day	Phase		h m s	Remarks
1.	eP	A	00 07 25.5	Greece 38.44 N 21.63 E
	e	A	07 39	H = 00 04 05.4 h = 18.9 km MB = 4.7
	LmH	B	13.5	D = 14.12 Az = 333 (NEIS)
	LmV	C	14.0	LmH 13s 2.0/um M = 4.38
1.	eP	AB	00 37 27	Iceland Region 66.31 N 16.35 W
	LmH	B	46.8	H = 00 32 44.0 h = 33 km MB = 4.9
	LmV	B	47.0	D = 21.16 Az = 124 (NEIS)
				PV A 2.4s 152.0nm M = 5.8
1.	-ePKIKP	AB	01 49 30	Kermadec Islands Region 28.61 S 177.64 W
	eiPKHKP	A	49 41	H = 01 29 39.6 h = 58.8 km MB = 6.2
	eiPKP2	A	50 02	D = 156.90 Az = 345 (NEIS)
	ePP	B	53 55	PKIKPV A 1.9s 258.0nm
	eSKKS	B	02 00 20	PKHKPV A 3.0 1710.5nm
	ePS	B	04 00	PKP2V A 3.0 2105.3nm
	eSS	B	13.5	LmH B 24 50.2/um
	LmH	B	54.7	LmV B 22 50.0/um
	LmV	B	03 01.1	
1.	e(PKP)	A	02 09 54	South of Fiji Islands 25 S 178 W
				H = 01 49 34 MB = 5.0 (NORSAR)
				D = 153.3
1.	e(PKP)	A	02 16 11.5	South of Fiji Islands 25 S 177 W
				H = 01 56 00 MB = 5.1 (NORSAR)
				D = 153.5
1.	ePKP2	A	02 27 00	Kermadec Islands 29.43 S 177.2 W
				H = 02 06 33 h = 25 km MB = 5.5
				D = 157.79 Az = 345 (ISC)
1.	ePKHKP	A	02 41 32	Kermadec Islands Region 28.95 S 177.54 W
				H = 02 21 10.6 h = 50.0 km MB=5.5 (NEIS)
				D = 152.3
1.	eP	A	04 23 19	Vancouver Island Region 50.27 N 129.82 W
				H = 04 11 41.8 h = 18.8 km MB = 4.9
				D = 74.22 Az = 24 (NEIS)

Day	Phase		h m s	Remarks
1.	ePKP2	A	07 23 12	Kermadec Islands 29.55 S 177.04 W H = 07 02 48.9 h = 33 km MB = 5.0 D = 157.95 Az = 345 (NEIS)
1.	ePKP	AB	09 24 22	Samoa Islands Region 16.59 S 172.85 W
	LmH	C	10 34.5	H = 09 04 44.6 h = 33 km MB=5.7 MS=5.6
	LmV	C	36.0	D = 145.84 Az = 355 (NEIS)
				PKPV A 1.9s 167.0nm
				LmH C 17.5 2.1/um M = 5.9
				LmV C 18 1.5/um 5.8
1.	ePKP	A	14 27 05	Samoa Region 16.29 S 172.9 W
				H = 14 07 27.6 h = 33 km MB = 4.8
				D = 145.54 Az = 355 (ISC)
1.	ePKP	A	15 05 49	Samoa Islands Region 16.42 S 172.90 W
				H = 14 46 11.1 h = 33 km MB=5.3 MS=4.9
				D = 145.67 Az = 355 (NEIS)
				PKPV A 1.0s 27.6nm
1.	ePKIKP	A	16 35 17.5	South of Fiji Islands 26.64 S 178.18 W
	ePKHKP	A	35 27	H = 16 15 49.7 h = 208.1 km MB = 5.4
	+iPKP2	A	35 43.5	D = 154.88 Az = 345 (NEIS)
	epPKP	A	36 13	PKIKPV A 1.8s 33.8nm
				PKP2V A 1.8 67.6nm
1.	ePKIKP	A	19 03 11	New Hebrides Islands 16.79 S 167.25 E
	e	A	03 19	H = 18 43 38.2 h = 25.0 km
	LmH	C	55.2	MB = 5.2 MS = 5.5
	LmV	C	58.5	D = 140.98 Az = 335 (NEIS)
				LmH C 23s 1.5/um M = 5.6
				LmV C 24 1.4/um 5.6
1.	ePKP	A	19 17 14	Samoa Islands Region 16.50 S 172.73 W
				H = 18 57 35.9 h = 33 km MB=5.0 MS=5.4
				D = 145.76 Az = 355 (NEIS)
				PKPV A 2.5s 138.4nm

Day	Phase		h m s	Remarks
1.	ePKP2	A	19 23 50	Kermadec Islands 29.01 S 177.78 W H = 19 03 29.4 h = 63.0 km MB = 5.2 (NEIS) D = 157.3
1.	ePKP	A	22 37 33	Samoa Islands Region 16.33 S 172.82 W H = 22 17 55.8 h = 33 km MB = 4.8 D = 145.58 Az = 355 (NEIS) PKPV A 1.2s 16.3nm
2.	ePKIKP	A	01 28 21	Kermadec Islands 29.24 S 177.14 W
	ePKP2	A	28 53.5	H = 01 08 31.3 h = 47.4 km MB = 5.3
				D = 157.62 Az = 345 (NEIS)
2.	eP	A	02 19 54	Iceland 65.67 N 16.72 W H = 02 15 08.5 h = 10 km MB = 4.5 D = 20.93 Az = 122 (NEIS) PV A 0.8s 11.5nm M = 4.3
2.	ePKP	A	02 31 31	Samoa Islands Region 15.47 S 172.02 W
	e	A	31 40	H = 02 11 55.8 h = 28 km MB = 5.3
	e	A	31 51	D = 144.80 Az = 356 (NEIS)
2.	eP	A	02 58 33	Kurile Islands 46.76 N 152.77 E H = 02 46 42.6 h = 53.5 km MB = 4.5 D = 77.34 Az = 336 (NEIS)
2.	eP	A	03 47 56	Vancouver Island Region 50.39 N 129.83 W
	LmH	C	04 19.3	H = 03 36 20.4 h = 22.5 km
	LmV	C	19.3	MB = 5.1 MS = 4.2
				D = 74.11 Az = 24 (NEIS)
				LmH C 23s 0.45/um M = 4.7
				LmV C 23 0.5/um 4.8
2.	ePKP2	A	06 09 01	Kermadec Islands 29.53 S 177.12 W H = 05 48 32.5 h = 33 km MB = 4.9 D = 157.91 Az = 345 (NEIS)

Day	Phase		h m s	Remarks
2.	eP	A	06 35 51	Afghanistan - USSR Border Region
	ePP	A	37 37	36.38 N 71.25 E
				H = 06 27 46.7 h = 92.9 km MB = 5.0
				D = 44.34 Az = 308 (NEIS)
2.	eP1	A	06 38 33	Iceland Region 66.02 N 16.77 W
	eP2	A	38 41	H = 06 33 48.4 h = 33 km MB = 4.4
	LmH	B	48.2	D = 21.14 Az = 123 (NEIS)
	LmV	B	48.2	P1V A 2.0s 85.5nm M = 4.8
				P2V A 3.0 394.7nm 5.3
				LmH B 18.5 1.7/um 4.5
				LmV B 19 1.7/um 4.6
2.	eP	A	06 59 58	Kurile Islands 43.38 N 147.15 E
	epP	A	07 00 09	H = 06 47 59.4 h = 42.0 km MB = 5.2
				D = 78.67 Az = 333 (NEIS)
				h = 40 km
				PV A 1.4s 32.6nm M = 5.1
2.	e	A	13 54 59.5	Tadzhik-Sinkiang Border Region
				39.38 N 73.16 E
				H = 13 46 45.6 h = 33.0 km MB = 4.8
				D = 43.75 Az = 306 (NEIS)
2.	e(P)	A	16 42 16	Mid-Indian Rise 11.46 S 66.39 E
				H = 16 30 12.8 h = 33 km MB = 5.0
				D = 78.01 Az = 328 (NEIS)
				PV A 1.3s 17.5nm M = 4.9
2.	eP	A	16.45 46	Mid-Indian Rise 11.50 S 66.35 E
				H = 16 33 49.0 h = 33.0 km MB = 5.2
				D = 78.02 Az = 328 (NEIS)
2.	eP	A	21 48 18.5	Off East Coast of Kamchatka
	e	A	48 31.5	53.70 N 161.57 E
				H = 21 36 49.7 h = 33.0 km MB = 4.6
				D = 73.00 Az = 341 (NEIS)

Day	Phase		h m s	Remarks
2.	ePKP2	A	22 16 56.5	Kermadec Islands 29.59 S 177.06 W
				H = 21 56 28.9 h = 32 km MB = 5.1 (NEIS)
				D = 158.0
2.	e	A	22 48 15	Greece 38.57 N 21.81 E
	LmH	B	54.6	H = 22 44 46.5 h = 39.4 km MB = 4.6
	LmV	B	54.7	D = 14.07 Az = 332 (NEIS)
				LmH B 10s 1.3/um M = 4.3
				LmV B 11 1.0/um
3.	eP	A	03 11 05.5	Ryukyu Islands 26.48 N 128.80 E
	LmV	B	53.8	H = 02 58 27.9 h = 21.1 km MB=5.4 MS=5.7
	LmH	B	54.4	D = 85.34 Az = 325 (NEIS)
				LmH B 14s 1.3/um M = 5.5
				LmV B 18 2.7/um 5.7
3.	ePKHKP	A	07 14 03.5	Fiji Islands Region 20.88 S 178.01 W
				H = 06 55 00.0 h = 409.7 km MB = 4.5
				D = 149.34 Az = 348 (NEIS)
3.	eP	A	13 19 50.5	Greece 38.40 N 21.75 E
				H = 13 16 26.4 h = 13.6 km MB = 4.6
				D = 14.20 Az = 333 (NEIS)
3.	eP	A	15 07 13.5	Greece 38.50 N 21.78 E
				H = 15 03 53.7 h = 33.9 km MB = 4.6
				D = 14.12 Az = 333 (NEIS)
3.	ePn	A	17 41 34	Northern Italy 45.61 N 13.11 E
	eiPg	A	41 55	H = 17 40 16.8 h = 47.3 km MB = 4.7
	e	A	42 29	D = 5.14 Az = 349 (NEIS)
	eSn	A	42 34.5	
	eiSg	A	42 59	
3.	+iP	A	19 27 17	Southern Nevada 37.30 N 116.33 W
	ePP	A	30 22	H = 19 15 00.2 h = 0 km MB=6.2 MS=5.5
	LmH	C	20 04.6	D = 81.20 Az = 31 (NEIS)
	LmV	C	09.3	Nuclear explosion (USAEC)

Day	Phase		h m s	Remarks
3. cont.				PV A 1.2s 171.0nm M = 6.0 PPV A 1.8 101.4nm 5.8 LmH C 19.5 2.1/um 5.5 LmV C 19 2.5/um 5.6
3.	ePKHKP	A	23 57 05	Tonga Islands 21.70 S 174.63 W H = 23 37 15.9 h = 52.7 km MB = 5.3 D = 150.70 Az = 352 (NEIS) PKHKPV A 1.7s 48.5nm
4.	eiP	A	04 34 13	Iceland Region 66.04 N 16.69 W H = 04 29 29.3 h = 33 km MB = 5.2 D = 21.12 Az = 123 (NEIS) PV A 1.7s 170.0nm M = 5.2 LmH B 16 3.2/um 4.8 LmV B 13.5 2.8/um 5.0
	LmH	B	43.7	
	LmV	B	46.1	
4.	+iP	A	08 56 00.7	Fox Islands, Aleutian Is. 52.89 N 166.76 W H = 08 44 11.2 h = 39.9 km MB=5.2 MS=5.2 D = 76.83 Az = 1 (NEIS) h = 43 km PV A 1.2s 46.7nm M = 5.4 LmH C 18 1.0/um 5.2 LmV C 18 1.0/um 5.2
	epP	A	56 11.5	
	LmH	C	09 34.2	
	LmV	C	34.3	
4.	e	A	11 47 52	El Salvador 13.04 N 88.67 W H = 11 34 50.2 h = 33 km MB = 5.3 (NEIS) D = 86.5
5.	eP	A	00 14 57	Off East Coast of Kamchatka 53.63 N 161.71 E H = 00 03 27.7 h = 33 km MB = 5.0 D = 73.10 Az = 341 (NEIS)
5.	eP	A	02 45 03	Peru 13.29 S 74.90 W H = 02 31 36.3 h = 95.4 km MB = 6.0 D = 97.96 Az = 40 (NEIS) h = 116 km
	epP	A	45 32	

Day	Phase		h m s	Remarks
5.	eP	A	06 35 35	New Mexico 35.84 N 108.34 W H = 06 23 32.9 h = 25 km MB = 5.0 D = 78.97 Az = 34 (NEIS) PV A 1.3s 19.7nm M = 5.0
5.	ePKP	A	10 28 27	Samoa Region 15.4 S 172.5 W H = 10 08 52.9 h = 33 km D = 144.65 Az = 355 (ISC)
6.	+iP	A	08 54 45.7	Iceland 65.69 N 16.85 W H = 08 50 00.5 h = 10 km MB = 5.0 (NEIS) D = 21.0 PV A 1.0s 59.0nm M = 4.9 LmH C 14.5 1.1/um 4.4 LmV C 19 0.8/um 4.3
	LmH	C	09 04.0	
	LmV	C	06.4	
6.	eP	A	14 29 31	Iceland Region 66.35 N 16.75 W H = 14 24 45.1 h = 33 km MB = 4.3 D = 21.31 Az = 124 (NEIS) LmH C 18s 0.9/um M = 4.2 LmV C 18 0.5/um 4.1
	LmH	C	37.7	
	LmV	C	38.8	
6.	eP	A	19 39 59	Near East Coast of Kamchatka 54.90 N 162.60 E H = 19 28 36.5 h = 33.0 km MB = 5.0 D = 72.06 Az = 341 (NEIS) PV A 1.0s 19.7nm M = 5.1
6.	eP	A	20 03 17.5	Near East Coast of Kamchatka 54.93 N 162.47 E H = 19 51 54.9 h = 33.0 km MB = 5.0 D = 72.07 Az = 341 (NEIS) PV A 1.0s 15.7nm M = 5.0
6.	eP	A	21 08 50	Off East Coast of Kamchatka 51.47 N 159.32 E H = 20 57 11.4 h = 33.0 km MB = 5.1 D = 74.63 Az = 339 (NEIS) PV A 1.0s 27.6nm M = 5.2

Day	Phase		h m s	Remarks
6.	+iP	AC	21 19 56.5	Off East Coast of Kamchatka
	eS	C	29 32	51.60 N 159.33 E
	eSS	C	35 00	H = 21 08 19.3 h = 33.0 km MB=5.7 MS=6.0
	LmH	B	58.6	D = 74.51 Az = 339 (NEIS)
	LmV	B	58.6	PV A 3.0s 1052.6nm M = 6.3
				PV C 16 3.8/um 6.1
				LmH B 14.5 22.9/um 6.6
				LmV B 14 31.2/um 6.8
6.	eP	A	21 35 21.5	Off East Coast of Kamchatka
				51.51 N 159.47 E
				H = 21 23 44.0 h = 33 km MB = 4.9
				D = 74.62 Az = 339 (NEIS)
6.	eP1	A	21 57 01.5	Off East Coast of Kamchatka
	+iP2	A	57 08	51.69 N 159.17 E
	e	A	57 15	H = 21 45 25.1 h = 33 km MB = 5.3
				D = 74.39 Az = 339 (NEIS)
				P1V A 1.1s 24.2nm M = 5.1
				P2V A 1.1 60.5nm 5.5
6.	+iP	A	22 29 24	Off East Coast of Kamchatka
				51.68 N 159.21 E
				H = 22 17 47.9 h = 33 km MB = 5.6
				D = 74.41 Az = 339 (NEIS)
				PV A 1.0s 94.5nm M = 5.7
6.	eP	A	23 06 19	Iceland Region 66.07 N 16.74 W
				H = 23 01 35.0 h = 33 km MB = 4.6
				D = 21.15 Az = 123 (NEIS)
				PV A 2.0s 51.3nm M = 4.6
6.	eP	A	23 32 08	Off East Coast of Kamchatka
				51.57 N 159.35 E
				H = 23 20 28.8 h = 33 km MB = 4.5
				D = 74.54 Az = 339 (NEIS)
				traces

Day	Phase		h m s	Remarks
6.	eP	A	23 45 21	Tsinghai Prov., China 33.91 N 94.33 E
				H = 23 35 12.0 h = 33 km MB = 4.7
				D = 60.30 Az = 313 (NEIS)
6.	eP	A	24 07 52	Peru-Bolivia Border Region
	eX	A	08 25.5	17.92 S 69.48 W
				H = 23 54 22.2 h = 76.4 km MB = 5.6
				D = 98.16 Az = 39 (NEIS)
				XV A 2.2s 70.8nm
7.	eP	A	00 23 51.5	Molucca Sea 0.15 S 124.83 E
				H = 00 09 52.5 h = 79.4 km MB = 5.7
				D = 104.65 Az = 323 (NEIS)
7.	eP	A	00 33 42	Kashmir-India Border Region
	e	A	33 48	32.85 N 75.96 E
				H = 00 24 54.1 h = 50.0 km MB = 5.4
				D = 49.58 Az = 311 (NEIS)
				PV A 1.1s 32.2nm M = 5.3
7.	eP	A	02 08 38	Off East Coast of Kamchatka
	LmH	C	47.3	51.62 N 159.19 E
	LmV	C	47.3	H = 01 57 00.8 h = 33.0 km MB=5.2 MB=5.2
				D = 74.46 Az = 339 (NEIS)
				PV A 2.0s 120.0nm M = 5.5
				LmH C 16 2.2/um 5.6
				LmV C 14 3.1/um 5.8
7.	eP	A	04 44 32.5	Off East Coast of Kamchatka
				51.79 N 159.20 E
				H = 04 32 56.8 h = 33.0 km MB=5.0 MS=4.7
				D = 74.30 Az = 339 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
7.	ePKP2	A	07 19 50.5	Off W. Coast of South Island, N. Z.
	e	A	19 56.5	47.48 S 165.78 E
	e	A	20 10	H = 06 59 06.6 h = 33 km MB = 5.3 (NEIS)
				D = 162.9

Day	Phase		h m s	Remarks
7.	eP	A	08 02 51.5	Off East Coast of Honshu, Japan
				39.73 N 143.36 E
				H = 07 50 39.5 h = 27 km MB=5.0 MS=4.7
				D = 80.56 Az = 331 (NEIS)
7.	eP	A	08 10 36.5	Off East Coast of Kamchatka
	LmH	B	50.6	51.56 N 159.59 E
	LmV	B	50.6	H = 07 58 59.1 h = 33 km MB=4.9 MS=4.5
				D = 74.61 Az = 340 (NEIS)
				LmH B 15s 0.8/um M = 5.1
7.	eP	A	08 15 24	Off East Coast of Kamchatka
				51.78 N 159.37 E
				H = 08 03 47.4 h = 33 km MB = 5.0
				D = 74.35 Az = 339 (NEIS)
7.	ePKP2	A	08 18 42	Kermadec Islands 29.65 S 177.26 W
				H = 07 58 17.3 h = 33 km MB = 5.4
				D = 157.99 Az = 345 (NEIS)
7.	e	A	08 44 09	Fiji Region 21.8 S 176.1 W
				H = 08 24 30 h = 241 km
				D = 150.58 Az = 350 (ISC)
7.	ePKP	A	10 15 00	Loyalty Islands 21.05 S 168.50 E
	e	A	15 10	H = 09 55 23.1 h = 33 km
				D = 145.32 Az = 334 (ISC)
				PKPV A 1.2s 24.4nm
7.	eP	A	10 58 01	Off East Coast of Kamchatka
				51.52 N 159.23 E
				H = 10 46 23.5 h = 33.0 km MB=4.9 MS=4.6
				D = 74.57 Az = 339 (NEIS)
7.	+iPKP	A	12 17 53	Loyalty Islands 21.10 S 168.60 E
	e	A	18 03	H = 11 58 16.2 h = 34 km
				D = 145.40 Az = 334 (ISC)
				PKPV A 1.4s 46.5nm

Day	Phase		h m s	Remarks
7.	eP	A	13 09 54	Off East Coast of Kamchatka
				51.62 N 159.53 E
				H = 12 58 14.5 h = 33 km MB = 4.5
				D = 74.54 Az = 339 (NEIS)
7.	pP	A	13 21 15	Northern Sumatra 4.20 N 96.46 E
				H = 13 08 34.3 h = 53.8 km MB = 5.2
				D = 83.50 Az = 320 (NEIS)
7.	eP	A	13 48 35.5	Off East Coast of Kamchatka
	epP	A	48 49	51.54 N 159.27 E
				H = 13 37 01.4 h = 62.9 km MB = 5.0
				D = 74.56 Az = 339 (NEIS)
				h = 50 km
				PV A 1.2s 18.3nm M = 4.9
7.	eP	A	18 44 39.5	Ryukyu Islands 26.41 N 127.63 E
	epP	A	44 51.5	H = 18 32 10.2 h = 58.0 km MB = 5.3
				D = 84.80 Az = 325 (NEIS)
				h = 41 km
7.	+iP	AB	23 46 00.5	Off East Coast of Kamchatka
	eS	B	55 44	51.65 N 159.50 E
	e(SS)	C	24 01 16	H = 23 34 23.7 h = 33.0 km MB=5.7 MS=5.7
	LmH	B	24.7	D = 74.50 Az = 339 (NEIS)
	LmV	B	24.7	PV A 2.4s 470.0nm M = 6.1
				LmH B 14.5 10.7/um 6.3
				LmV B 14.5 14.8/um 6.5
8.	eP	A	00 30 53	Off East Coast of Kamchatka
				51.77 N 159.35 E
				H = 00 19 16.3 h = 33.0 km MB = 4.8 (NEIS)
				D = 74.5
8.	+iPKP	A	06 48 32.5	New Hebrides Islands 20.40 S 169.05 E
	epPKP	A	48 45	H = 06 29 02.1 h = 47 km
				D = 144.95 Az = 335 (NEIS)
				h = 46 km
				PKPV A 1.2s 61.0nm

Day	Phase	h m s	Remarks
8.	eP AB	10 42 23	Off East Coast of Kamchatka
	e A	42 38	51.68 N 159.10 E
	eS B	51 52	H = 10 30 45.0 h = 33.0 km
	LmH B	11 21.0	MB = 5.5 MS = 5.1 (NEIS)
	LmV B	21.0	D = 74.5
			PV A 1.6s 170.0nm M = 5.8
			LmH B 14 3.5/um 5.8
			LmV B 14 4.8/um 6.0
8.	-iP A	16 01 50	Off East Coast of Kamchatka
	+i A	02 03	51.41 N 159.77 E
	ePP A	04 45	H = 15 50 11.3 h = 33.0 km
	eS C	11 20	MB = 5.4 MS = 4.9 (NEIS)
	LmH B	40.9	D = 74.7
	LmV B	40.9	PV A 1.5s 70.4nm M = 5.4
			PPV A 2.2 98.1nm 5.5
			LmH B 16 2.5/um 5.6
			LmV B 15 3.5/um 5.8
8.	eP A	21 59 25	Iceland Region 66.12 N 17.4 W
			H = 21 54 35 h = 10 km MB = 4.1
			D = 21.42 Az = 122 (ISC)
9.	eP A	01 31 49.5	Off East Coast of Kamchatka
			51.70 N 159.54 E
			H = 01 20 12.0 h = 33 km MB = 4.6
			D = 74.46 Az = 339 (NEIS)
9.	eP A	03 51 39	Iceland Region 66.08 N 16.62 W
	LmH B	04 01.2	H = 03 46 55.5 h = 33 km MB = 4.8 (NEIS)
	LmV B	04.5	D = 21.2
			PV A 2.5s 215.2nm M = 5.01
			LmH B 17 2.2/um 4.6
			LmV B 12 2.3/um 4.9
9.	eP A	06 14 07.5	Iceland Region 66.16 N 16.58 W
			H = 06 09 20.1 h = 10 km MB = 4.3
			D = 21.15 Az = 124 (NEIS)

Day	Phase	h m s	Remarks
9.	eP A	06 50 08	Iceland Region 65.95 N 16.63 W
	LmV B	59.4	H = 06 45 25.3 h = 33 km MB = 4.7 (NEIS)
	LmH B	59.6	D = 21.2
			PV A 1.7s 42.4nm M = 4.6
			LmH B 16 1.1/um 4.3
			LmV B 18 0.9/um 4.4
9.	ePKIKP AB	24 13 39	New Hebrides Islands 15.76 S 167.87 E
	e A	13 44.5	H = 23 54 35.6 h = 168.1 km MB = 6.1
	ePP AB	16 44	D = 140.29 Az = 336 (NEIS)
	ePcPPKP A	25 27	PKIKPV A 2.0s 188.0nm
	LmH B	25 04.3	PKIKPV B 9 1.2/um
	LmV B	19.8	PPV B 8 1.7/um M = 6.2
			LmH B 22 1.2/um
			LmV B 19 1.0/um
10.	eP A	03 49 01	Off East Coast of Kamchatka
			51.63 N 159.46 E
			H = 03 37 24.1 h = 33 km MB=5.0 MS=4.4
			D = 74.52 Az = 339 (NEIS)
			PV A 1.1s 16.1nm M = 4.9
10.	eP A	07 15 31	Dodecanese Islands 36.86 N 27.79 E
	LmH C	21.7	H = 07 11 19.2 h = 29.8 km MB = 4.2
	LmV C	22.9	D = 18.01 Az = 325 (NEIS)
			PV A 1.3s 50.2nm M = 4.5
			LmH C 14.5 1.0/um 4.2
			LmV C 13 0.7/um 4.3
10.	eP A	09 06 05.5	South Indian Ocean 35.10 S 54.36 E
			H = 08 52 51.8 h = 33.0 km MB = 5.7
			D = 93.33 Az = 334 (NEIS)
			PV A 2.4s 69.0nm M = 5.7
10.	eP1 A	09 10 55	Off Coast of Oregon 43.55 N 127.43 W
	eP2 A	11 00	H = 08 58 45.2 h = 33.0 km MB = 5.4
	ePP A	13 56	D = 79.64 Az = 25 (NEIS)

Day	Phase		h m s	Remarks
ont. 10.	LmH	B	09 46.8	P1V A 1.8s 33.8nm M = 5.0
	LmV	B	47.6	P2V A 1.5 47.8nm 5.3
				LmH B 17 2.2/um 5.6
				LmV B 18 1.7/um 5.5
10.	eP	A	13 00 06	Northern Sinkiang Prov. China
	ePP	B	01 56	42.14 N 83.39 E
	eS	B	07 08	H = 12 51 25.0 h = 33.5 km MB=5.4 MS=5.2
	eSS	B	10 40	D = 48.43 Az = 306 (NEIS)
	e	B	15 00	PV A 1.3s 52.4nm M = 5.4
	LmH	B	18.4	LmH B 15 6.1/um 5.7
	LmV	B	22.9	LmV B 15.5 5.8/um 5.7
10.	ePKP2	A	13 45 30	Kermadec Islands Region 28.86 S 177.46 W
				H = 13 25 07.2 h = 33 km MB = 5.4 (NEIS)
				D = 157.1
				PKP2V A 1.2s 32.5nm
10.	ePKHKP	A	14 47 19	Loyalty Islands Region 22.92 S 171.50 E
	LmH	C	15 56.9	H = 14 27 34.9 h = 40.1 km MS = 4.6
	LmV	C	56.9	D = 148.19 Az = 335 (NEIS)
10.	ePKHKP	A	24 14 02	Tonga Islands 17.79 S 173.23 W
	e	A	14 14	H = 23 54 21.1 h = 33 km MB = 4.8
				D = 146.99 Az = 354 (NEIS)
11.	eP	A	11 00 35.5	Off East Coast of Kamchatka
				51.38 N 159.25 E
				H = 10 48 59.9 h = 59.4 km MB = 4.8
				D = 74.70 Az = 339 (NEIS)
12.	ePKIKP	A	07 15 06	Fiji Islands Region 20.99 S 179.22 W
	ePKHKP	A	15 11	H = 06 56 31.3 h = 634.2 km MB = 5.1
	ePKP2	A	15 17.5	D = 149.20 Az = 346 (NEIS)
12.	e	A	12 51 54	Volcano Islands Region 23.31 N 142.78 E
				H = 12 38 29.6 h = 113.0 km MB = 5.2
				D = 94.69 Az = 331 (NEIS)

Day	Phase		h m s	Remarks
12.	eiP1	A	17 55 21.5	Cyprus 34.32 N 32.53 E
	eiP2	A	55 26.5	H = 17 50 24.0 h = 33 km MB = 5.1
	LmH	B	18 04.3	D = 22.33 Az = 323 (NEIS)
				P1V A 1.3s 131.0nm M = 5.2
				P2V A 1.4 266.1nm 5.5
12.	ePKP2	A	19 55 55	Kermadec Islands Region 30.11 S 176.83 W
	LmH	C	21 18.5	H = 19 35 25.8 h = 33 km
	LmV	C	20.4	MB = 5.3 MS = 5.0 (NEIS)
				D = 158.4
				PKP2V A 1.4s 26.2nm
				LmH C 18 1.5/um M = 5.8
				LmV C 17.5 1.7/um 5.9
12.	eP1	A	20 24 56	Cyprus 34.39 N 32.45 E
	eP2	A	24 59	H = 20 19 57.0 h = 20.1 km
				MB = 5.0 MS = 5.0 (NEIS)
				D = 22.3
				P1V A 1.3s 74.2nm M = 5.0
				P2V A 1.3 109.2nm 5.1
12.	eP	A	22 47 14	Turkey 38.59 N 43.14 E
				H = 22 41 49.5 h = 35.6 km MB = 5.0
				D = 25.26 Az = 309 (NEIS)
13.	+eP	A	04 39 18	Iceland Region 66.13 N 16.66 W
	LmH	C	47.4	H = 04 34 34.3 h = 33 km MB = 5.0
	LmV	C	48.9	D = 21.16 Az = 123 (NEIS)
				PV A 2.0s 162.4nm M = 5.1
				LmH C 20 3.4/um 4.7
				LmV C 17 2.4/um 4.8
13.	ePKP2	A	11 36 24	Kermadec Islands 29.82 S 177.16 W
				H = 11 15 57.3 h = 33 km MB = 4.7
				D = 158.18 Az = 345 (NEIS)
13.	eiP	A	13 34 02.5	Iceland Region 66.16 N 16.58 W
	eS	C	37 45	H = 13 29 19.5 h = 33 km MB=6.0 MS=6.4

Day	Phase		h m s	Remarks
cont.				
13.	LmH	B	13 43.7	D = 21.15 Az = 124 (NEIS)
	LmV	B	44.5	PV A 1.4s 2069.8nm M = 6.3
				PV B 8 14.8/um 6.4
				LmH B 16 144.0/um 6.5
				LmV B 16.5 135.0/um 6.6
13.	eP	A	14 04 21	Iceland Region 67.33 N 22.0 W
				H = 13 59 15 h = 33 km MB = 4.5
				D = 23.58 Az = 118 (ISC)
				PV A 1.2s 18.3nm M = 4.5
13.	eP	A	16 31 02	Iceland Region 66.11 N 16.56 W
				H = 16 26 18.8 h = 33 km MB = 4.5
				D = 21.12 Az = 123 (NEIS)
				PV A 1.8s 60.8nm M = 4.7
13.	eP	A	17 04 58	Iceland Region 66.05 N 17.7 W
				H = 17 00 09.6 h = 33 km MB = 4.3
				D = 21.48 Az = 122 (ISC)
13.	eP	A	19 02 57	Iceland Region 66.30 N 16.77 W
				H = 18 58 08.4 h = 10 km MB = 4.5
				D = 21.29 Az = 124 (NEIS)
14.	ePKIKP	A	08 47 58	Kermadec Islands 29.27 S 177.25 W
	ePKP2	A	48 29.5	H = 08 28 07.4 h = 63.9 km MB = 5.3
	LmV	B	09 59.4	D = 157.62 Az = 345 (NEIS)
	LmH	B	10 05.7	LmH B 16s 0.9/um
				LmV B 22 1.9/um
14.	eP	A	09 09 48.5	Iceland 65.78 N 16.75 W
				H = 09 05 03.5 h = 10 km MB = 4.5 (NEIS)
				D = 20.9
				PV A 1.7s 42.4nm M = 4.5
14.	eP	A	10 34 26.5	Greece 38.55 N 22.02 E
				H = 10 31 06.7 h = 41.5 km MB = 4.6
				D = 14.17 Az = 332 (NEIS)
				PV A 1.1s 10.1nm M = 4.5

Day	Phase		h m s	Remarks
14.	eP	A	11 05 07	Eastern Gulf of Aden 13.89 N 51.66 E
	e	A	05 19	H = 10 56 21.1 h = 33 km
				MB = 5.1 MS = 5.0 (NEIS)
				D = 48.8
				PV A 1.2s 20.3nm M = 5.0
14.	eSn	A	11 57 57	South-Western Russia 49.29 N 25.1 E
	eSg	A	58 51	H = 11 53 57.0 h = 10 km
				D = 8.15 Az = 284 (ISC)
14.	eP	A	15 41 53	South of Honshu, Japan 32.48 N 137.33 E
				H = 15 30 04.5 h = 407.0 km MB = 5.2
				D = 84.37 Az = 329 (NEIS)
				PV A 1.2s 20.3nm M = 4.8
14.	eP diff	C	16 14 40	Kermadec Islands 29.21 S 177.89 W
	ePKHKP	A	16 34	H = 15 56 34.9 h = 69 km MB = 6.3 (NEIS)
	ePKP2	A	16 56	D = 157.3
	ePP	BC	20 50	PKHKPV A 2.1s 719.0nm
	eSKSP	B	31 18	LmH B 21 210.0/um
	ePPS	B	34 04	LmV B 18 23.6/um
	eSS	B	40 36	
	LmH	B	18 19.0	
	LmV	B	27.0	
14.	ePKP	A	16 16 07	Tonga Islands 15.23 S 173.52 W
				H = 15 56 33.1 h = 33 km MB = 5.7
				D = 144.43 Az = 354 (NEIS)
				PKPV A 1.6s 54.9nm
14.	ePKIKP	A	17 07 25	Kermadec Islands Region 28.43 S 177.66 W
	ePKHKP	A	07 38	H = 16 47 33.5 h = 33 km MB=6.5 MS=8.0
	ePKP2	A	08 02	D = 156.72 Az = 345 (NEIS)
	LmH	B	18 19.0	PKIKPV A 2.0s 804.0nm
	LmV	B	23.0	LmH B 21 210.0/um M = 7.8
				LmV B 24 323.1/um 8.0

Day	Phase		h m s	Remarks
14.	ePKP2	A	17 59 43	Kermadec Islands Region 29.6 S 175.8 W
	e	A	59 54	H = 17 27 40 h = 44 km
				D = 157.88 Az = 347 (ISC)
14.	ePKIKP	A	18 05 15	Kermadec Islands 29.94 S 177.41 W
	ePKHKP	A	05 24	H = 17 45 17.4 h = 33 km MB = 5.5
	ePKP2	A	05 57	D = 158.23 Az = 344 (NEIS)
14.	ePKP2	A	18 18 27.5	Kermadec Islands Region 28.85 S 176.74 W
				H = 17 58 02 h = 54 km (ISC)
				D = 157.2
14.	ePKP2	A	18 37 26	Kermadec Islands 29.58 S 177.55 W
				H = 18 17 15 h = 166 km MB = 5.0
				D = 157.86 Az = 344 (ISC)
				PKP2V A 1.2s 20.3nm
14.	ePKP2	A	18 55 13	Kermadec Islands Region 28.61 S 176.73 W
				H = 18 34 50.0 h = 37.5 km MB = 5.4
				D = 157.11 Az = 346 (NEIS)
14.	ePKIKP	A	19 10 20.5	Kermadec Islands Region 29.69 S 176.86 W
	ePKHKP	A	10 32	H = 18 50 25.6 h = 33 km MB = 5.4
	ePKP2	A	10 54	D = 158.11 Az = 345 (NEIS)
				PKIKPV A 2.4s 83.0nm
14.	ePKP2	A	19 42 18	Kermadec Islands 29.4 S 177.6 W
				H = 19 21 56 h = 33 km
				D = 157.72 Az = 344 (ISC)
14.	ePKIKP	A	20 07 48	Kermadec Islands 29.24 S 177.14 W
				H = 19 47 21.9 h = 33 km MB = 5.1
				D = 157.62 Az = 345 (NEIS)
14.	ePKP2	A	20 11 08.5	Kermadec Islands 29.0 S 177.1 W
				H = 19 50 39 h = 94 km (ISC)
				D = 157.2

Day	Phase		h m s	Remarks
14.	e(PKP2)	A	20 31 04	Kermadec Islands Region 30.15 S 176.52 W
				H = 20 10 23.7 h = 33 km MB = 5.1
				D = 158.63 Az = 346 (NEIS)
14.	ePKP2	A	20 41 01	Kermadec Islands Region 29.12 S 177.12 W
				H = 20 20 35.3 h = 33 km MB = 5.3 (NEIS)
				D = 157.5
				PKP2V A 1.0s 19.7nm
14.	ePKP2	A	21 11 41.5	Kermadec Islands Region 28.66 S 176.92 W
				H = 20 51 17.7 h = 33 km MB = 5.2
				D = 157.11 Az = 346 (NEIS)
14.	eP	A	21 56 30	Central California 36.01 N 120.27 W
				H = 21 43 58.5 h = 11.1 km MB = 5.1
				D = 83.88 Az = 28 (NEIS)
14.	e(P)	A	22 05 15	
14.	e(P)	A	22 48 15.5	Kermadec Islands Region 29.4 S 176.8 W
				H = 22 27 53 h = 69 km
				D = 157.81 Az = 346 (ISC)
14.	e(PKHKP)	A	23 03 51	Kermadec Islands Region 28.66 S 176.85 W
	e	A	03 56	H = 22 43 43.1 h = 31.3 km
	ePKP2	A	04 05	MB = 5.5 MS = 6.3 (NEIS)
	LmV	B	24 22.6	D = 157.1
	LmH	B	22.9	LmH B 18.5s 6.8/um M = 6.4
				LmV B 18 10.4/um 6.7
15.	eP	A	00 20 38	Iceland Region 66.14 N 16.72 W
				H = 00 15 51.4
				D = 21.19 Az = 123 (ISC)
15.	ePKIKP	A	01 06 24	Kermadec Islands Region 29.31 S 176.42 W
				H = 00 45 57.0 h = 33 km
				MB = 5.2 MS = 5.7 (NEIS)
				D = 157.8

Day	Phase		h m s	Remarks
15.	ePKP2	A	02 15 17	Kermadec Islands Region 28.65 S 176.82 W H = 01 54 51.0 h = 33 km MB = 5.4 (NEIS) D = 157.1
15.	e(PKP2)	A	02 20 48	Kermadec Islands Region 29.03 S 176.79 W H = 02 00 11.7 h = 33 km MB = 5.2 MS = 5.7 (NEIS) D = 157.4
15.	ePKP2	A	02 25 38	Kermadec Islands Region 28.85 S 176.67 W H = 02 05 13.2 h = 33 km MB = 5.3 (NEIS) D = 157.1
15.	ePKP2	A	03 50 38.3	Kermadec Islands Region 29.43 S 176.84 W H = 03 30 09.0 h = 33 km MB = 5.2 (NEIS) D = 157.8
15.	ePKP2	A	04 02 19	Kermadec Islands Region 29.31 S 176.86 W H = 03 41 51.3 h = 33 km MB = 5.3 (NEIS) D = 157.7
15.	ePKP2	A	04 21 58	Kermadec Islands Region 29.93 S 176.78 W
	e	A	22 11	H = 04 01 30.2 h = 33 km (NEIS) D = 158.3 PKP2V A 2.0s 42.8nm
15.	+iP	A	04 54 47	Eastern Kazakh SSR 49.87 N 78.25 E
	ePn	A	56 19	H = 04 46 57.6 h = 0.0 km MB = 5.2 (NEIS) D = 41.3 PV A 0.7s 53.6nm M = 5.4
15.	ePKP	A	05 00 23	New Hebrides Islands 15.46 S 167.63 E H = 04 41 07.4 h = 131.9 km MB = 5.2 (NEIS) D = 139.6
15.	ePKP2	A	05 02 43	Kermadec Islands Region 29.2 S 176.6 W H = 04 42 17 h = 33 km D = 157.74 Az = 346 (ISC)

Day	Phase		h m s	Remarks
15.	ePKP2	A	06 05 28	Kermadec Islands 29.10 S 177.03 W H = 05 45 01.8 h = 33 km MB = 4.9 (NEIS) D = 157.4 PKP2V A 1.4s 18.6nm
15.	ePKIKP	A	06 26 46.5	Kermadec Islands Region 30.38 S 176.82 W
	ePKP2	AB	27 17	H = 06 06 46.1 h = 33 km MB = 5.3 MS = 6.2 (NEIS) D = 158.8 PKP2V A 1.6s 41.2nm
15.	ePKIKP	A	06 48 16	Kermadec Islands Region 30.02 S 176.84 W
	eiPKP2	A	48 51	H = 06 28 18.1 h = 33 km MB = 5.5 (NEIS)
	LmH	B	08 01.6	D = 158.3
	LmV	B	17.7	PKIKPV A 2.5s 138.4nm LmH B 18 5.0/um M = 6.3 LmV B 16.5 5.7/um 6.5
15.	ePKP2	A	07 22 46	Kermadec Islands Region 30.22 S 176.67 W
	e	A	22 56	H = 07 02 15.2 h = 33 km MB = 5.2 (NEIS) D = 158.6
15.	ePKIKP	A	08 49 48	Kermadec Islands 30.25 S 177.41 W
	eiPKP2	AB	50 23.5	H = 08 29 54.6 h = 43.8 km MB = 5.5 (NEIS) D = 158.6 PKIKPV A traces PKP2V A 1.6s 104.4nm
15.	ePKHKP	A	08 56 55.5	Kermadec Islands 30.1 S 177.0 W
	ePKP2	A	57 24	H = 08 36 46.8 h = 92 km D = 158.48 Az = 365 (ISC)
15.	ePKP2	A	09 40 10.5	Kermadec Islands Region 29.9 S 176.4 W H = 09 19 39 h = 33 km D = 158.41 Az = 346 (ISC)
15.	ePKIKP	A	10 29 44	Kermadec Islands Region 28.57 S 177.59 W
	ePKP2	A	30 14.5	H = 10 09 51.9 h = 33 km
	e	A	30 32	MB = 5.6 MS = 5.8 (NEIS) D = 156.8 PKIKPV A 2.4s 138.1nm PKP2V A 1.5 75.4nm

Day	Phase	h m s	Remarks
15.	ePKP2 A	10 36 18.5	Kermadec Islands Region 29.54 S 176.64 W H = 10 15 50.9 h = 52.2 km MB = 5.0 (NEIS) D = 157.9 PKP2V A 1.2s 18.3nm
15.	ePKP2 A	12 19 34.5	Kermadec Islands Region 29.23 S 176.95 W H = 11 59 09.1 h = 33 km MB = 4.8 (NEIS) D = 157.6
15.	ePKP2 A	13 19 44	Kermadec Islands 29.15 S 177.06 W H = 12 59 18.9 h = 33 km MB = 4.5 (NEIS) D = 157.4 PKP2V A 1.3s 21.8nm
15.	ePKP2 A	14 09 43.5	Kermadec Islands 29.82 S 177.40 W H = 13 49 15.9 h = 33 km MB = 4.5 (NEIS) D = 158.0 PKP2V A 1.5s 20.1nm
15.	eP A	14 32 48	Iceland 65.69 N 16.7 W H = 14 28 04.0 h = 33 km D = 20.95 Az = 122 (ISC)
15.	ePKHKP A ePKP2 A LmV B LmH B	16 32 32 32 54 17 58.0 58.3	Kermadec Islands 30.15 S 177.24 W H = 16 12 22.3 h = 33 km MB = 5.1 MS = 6.1 (NEIS) D = 158.3 LmH B 16.5s 3.3/um M = 6.1 LmV B 16.5 3.8/um 6.3
15.	ePKP2 A	17 42 35.5	Kermadec Islands Region 29.69 S 176.72 W H = 17 22 04.0 h = 33 km MB = 5.1 (NEIS) D = 158.1
15.	ePKP2 A	17 49 47.5	Kermadec Islands Region 30.4 S 176.1 W H = 17 29 19 h = 73 km D = 158.94 Az = 346 (ISC)

Day	Phase	h m s	Remarks
15.	ePKP2 A	18 22 37	Kermadec Islands Region 29.27 S 176.72 W H = 18 02 09.7 h = 33 km MB = 5.2 (NEIS) D = 157.6
15.	e(PKIKP) A	18 42 31	Kermadec Islands Region 28.16 S 178.26 W H = 18 22 36.9 h = 33 km MB = 5.0 (NEIS) D = 156.2
15.	e A LmH B LmV B	22 07 49 23 19.5 23.8	Kermadec Islands Region 28.06 S 178.36 W H = 21 47 04.2 h = 39.2 km MB = 5.2 MS = 5.6 (NEIS) D = 156.2 LmH B 20s 1.0/um M = 5.5 LmV B 18 1.2/um 5.7
16.	ePKP A e A	03 33 47 34 00	Samoa Islands Region 16.70 S 172.35 W H = 03 14 09.5 h = 33 km MB=5.3 MS=4.9 D = 145.99 Az = 355 (NEIS) PKPV A 1.4s 55.8nm
16.	ePKP2 A	04 31 47.5	Kermadec Islands 29.94 S 177.32 W H = 04 11 19.9 h = 33 km MB = 5.0 (NEIS) D = 158.1 PKP2V A 1.2s 10.2nm
16.	eP A	05 43 15.5	Iran 30.22 N 50.84 E H = 05 36 19.0 h = 31.6 km MB = 4.9 D = 35.60 Az = 316 (NEIS)
16.	ePKP A epPKP A	06 01 33 01 44	Loyalty Islands Region 22.11 S 170.05 E H = 05 41 53.1 h = 53.7 km MB = 5.2 D = 146.89 Az = 335 (NEIS) PKPV A 1.1s 20.2nm pPKPV A 1.3 30.6nm
16.	eP A	08 44 00	Off East Coast of Kamchatka 51.67 N 159.48 E H = 08 32 25.8 h = 60 km MB = 4.9 (NEIS) D = 74.3

Day	Phase	h m s	Remarks
16.	ePKHKP A	09 14 48	Kermadec Islands Region 29.37 S 176.86 W
			H = 08 54 36.1 h = 33 km MB = 4.9
			D = 157.81 Az = 346 (NEIS)
16.	ePKHKP A	11 05 19	South of Fiji Islands 25.07 S 179.95 E
	ePKP2 A	05 32	H = 10 46 15.1 h = 487 km MB = 5.3
			D = 152.92 Az = 344 (NEIS)
16.	iPKP A	11 14 04.5	Loyalty Islands 21.20 S 168.66 E
	ipPKP A	14 15.0	H = 10 54 28.0 h = 33 km MB = 5.3
	e C	18 00	D = 145.52 Az = 334 (NEIS)
	LmH C	12 36.5	h = 39 km
			PKPV A 1.3s 353.7nm
			PKPV B 7 2.5/um
			LmH C 18 0.3/um M = 5.1
16.	eP A	12 52 24	Kurile Islands Region 44.0 N 149.4 E
			H = 12 40 29 h = 61 km MB = 4.2
			D = 78.84 Az = 334
16.	eP A	13 11 21	Iceland 65.68 N 17.12 W
			H = 13 06 34.7 h = 10 km MB = 4.4
			D = 21.08 Az = 122 (NEIS)
16.	ePKIKP A	13 15 30	Kermadec Islands 29.02 S 177.01 W
	ePKP2 A	16 02	H = 12 55 36.6 h = 33 km MB = 5.4
			D = 157.44 Az = 346 (NEIS)
			PKIKPV A traces
			PKP2V A 1.3s 21.8nm
16.	e A	13 39 58	Kermadec Islands Region 29.79 S 176.60 W
			H = 13 19 14.8 h = 33 km MB = 5.4 (NEIS)
			D = 158.1
16.	ePKP2 A	15 23 08	Kermadec Islands 30.3 S 177.5 W
			H = 15 02 44 h = 63 km
			D = 158.54 Az = 344 (ISC)
			PKP2V A 1.5s 17.6 nm

Day	Phase	h m s	Remarks
16.	ePKP2 A	15 43 34	Kermadec Islands 30.10 S 177.68 W
	e A	43 39	H = 15 23 05.4 h = 33 km MB = 4.8 (NEIS)
	e A	43 49	D = 158.2
16.	ePKHKP A	15 48 19	Kermadec Islands Region 29.57 S 176.73 W
	e A	48 26	H = 15 28 09.3 h = 33 km
	ePKP2 A	48 38	MB = 5.0 MS = 5.2 (NEIS)
	LmH C	16 59.3	D = 158.0
	LmV C	59.3	LmH C 22s 0.9/um M = 5.5
			LmV C 22 1.5/um 5.8
16.	eP A	17 18 16	Afghanistan-USSR Border Region
			37.78 N 71.19 E
			H = 17 10 13.1 h = 28 km MB = 5.0
			D = 43.45 Az = 307 (NEIS)
16.	ePKIKP AB	22 06 15	Kermadec Islands 30.06 S 177.64 W
	ePKP2 A	06 50	H = 21 46 21.5 h = 33 km MB=5.4 MS=5.4
	e(PP) C	10(40)	D = 158.30 Az = 344 (NEIS)
	LmH B	23 20.0	PKIKPV A 3.2s 277.8nm
	LmV B	20.2	LmH B 20 1.2/um M = 5.6
			LmV B 20 1.2/um 5.7
16.	ePKIKP A	23 52 00	Kermadec Islands Region 29.73 S 177.72 W
	e A	52 08	H = 23 32 09.4 h = 51 km MB = 5.5
	ePKP2 A	52 35	D = 157.96 Az = 344 (NEIS)
17.	eP A	02 49 27.5	Iceland Region 66.18 N 16.71 W
			H = 02 44 40.2 h = 10 km MB = 4.5
			D = 21.21 Az = 123 (NEIS)
17.	ePKIKP A	06 09 51	South of Kermadec Islands
	ePKP2 A	10 32.5	32.65 S 178.24 W
			H = 05 49 55.2 h = 33 km MB=5.8 MS=5.2
			D = 160.60 Az = 341 (NEIS)
			PKP2V A 1.7s 45.5nm
17.	ePKP2 A	06 48 45	South of Kermadec Islands
			32.38 S 178.40 W

Day	Phase		h m s	Remarks
cont. 17.				H = 06 28 08.1 h = 33 km MB = 4.5 (NEIS) PKP2V A 1.3s 15.3nm
17.	ePKP2	A	06 50 14	South of Kermadec Islands 32 S 179 W H = 06 29 38 MB = 4.9 (NORSAR) D = 160.0
17.	ePKP2	A	07 26 16	Kermadec Islands Region 29.34 S 176.51 W
	e	A	26 28	H = 07 05 50.0 h = 41 km MB = 5.1 (NEIS) D = 157.8 PKP2V A 1.4s 16.3nm
17.	ePKP2	A	10 16 50	Kermadec Islands Region 28.82 S 177.58 W H = 09 56 28.8 h = 56 km MB = 5.1 (NEIS) D = 157.0 PKP2V A 0.9s 15.6nm
17.	+eP	A	11 55 52	Iceland 65.74 N 16.54 W H = 11 51 10.3 h = 33 km MB = 4.6 D = 20.91 Az = 123 (NEIS) PV A 1.2s 32.5nm M = 4.6
17.	eP	A	12 30 09	Iceland 65.81 N 16.65 W H = 12 25 26.5 h = 33 km MB = 4.4 D = 20.98 Az = 123 (NEIS) PV A 1.5s 20.1nm M = 4.6
17.	ePKP2	A	14 13 17	South of Kermadec Islands 32.66 S 178.11 W H = 13 52 38.8 h = 33 km D = 160.65 Az = 341 (ISC) PKP2V A 1.5s 25.1nm
17.	eP	A	14 15 23.5	Near East Coast of Honshu 36.5 N 141.7 E H = 14 03 02.3 h = 33 km MB = 4.7 D = 82.76 Az = 331 (ISC) PV A 1.4s 16.3nm

Day	Phase		h m s	Remarks
17.	e(P)	A	17 00 27.5	Lake Baikal Region 52.78 N 107.19 E H = 16 50 50.3 h = 33 km D = 54.90 Az = 309 (NEIS)
18.	ePKP2	A	00 29 52	Kermadec Islands 29.35 S 177.18 W H = 00 09 39.1 h = 135 km (NEIS) D = 157.8 PKP2V A 1.4s 18.6nm
18.	ePKP2	A	02 38 02.5	Kermadec Islands 29.12 S 177.03 W H = 02 17 36.3 h = 33 km MB = 4.7 D = 157.53 Az = 345 (NEIS) PKP2V A 1.3s 13.1nm
18.	ePKP	A	04 50 15	Loyalty Islands Region 22.19 S 170.24 E H = 04 30 32.3 h = 33 km D = 147.03 Az = 335 (NEIS)
18.	-eP	AB	04 52 08	Svalbard Region 77.87 N 18.64 E
	eiS	B	56 48	H = 04 46 24.4 h = 33 km MB=5.6 MS=5.9
	LmH	B	05 04.8	D = 27.46 Az = 190 (NEIS)
	LmV	B	05.0	PV A 1.5s 185.9nm M = 5.5 LmH B 15 36.3/um 6.1 LmV B 15.5 48.7/um 6.3
18.	ePKIKP	A	05 19 46	Kermadec Islands 28.99 S 177.37 W
	ePKP2	A	20 12.5	H = 04 59 51.2 h = 57 km MB = 5.2 D = 157.2 PKP2V A 1.0s 19.7nm
18.	+iP	A	08 28 31	Iceland 65.72 N 16.83 W
	+i	A	28 34	H = 08 23 48.8 h = 33.0 km MB = 4.6
	LmH	B	41.5	D = 20.99 Az = 122 (NEIS)
	LmV	B	42.1	PV A 1.5s 40.2nm M = 4.6 LmH B 11 1.0/um 4.4 LmV B 13 0.9/um 4.5

Day	Phase		h m s	Remarks
18.	ePKP	A	09 34 18	Loyalty Islands Region 22.36 S 170.52 E H = 09 14 34.8 h = 33 km D = 147.30 Az = 335 (NEIS)
18.	ePKP	A	12 47 02	Loyalty Islands Region 22.47 S 170.57 E
	e	A	47 24	H = 12 27 17.3 h = 33 km MB = 5.6 D = 147.43 Az = 335 (NEIS) PKPV A 1.7s 36.4nm
18.	eP	A	13 32 11	Greenland Sea 76.0 N 3.6 W H = 13 26 32.3 h = 0 km D = 26.18 Az = 158 (ISC)
18.	ePKP2	AB	13 50 11	South of Kermadec Islands
	e	A	50 22	32.40 S 178.31 W
	e	A	50 34	H = 13 29 32.8 h = 32 km
	LmV	B	15 08.0	MB = 5.2 MS = 5.5 (NEIS)
	LmH	B	08.2	D = 160.3
				PKP2V A 2.0s 42.7nm LmH B 18 0.8/um M = 5.5 LmV B 18 1.2/um 5.7
18.	eiP	AB	15 13 39.5	Greece 38.90 N 20.60 E
	LmH	B	18.6	H = 15 10 32.7 h = 33 km MB=5.4 MS=5.7
	LmV	B	20.3	D = 13.36 Az = 335 (NEIS) PV A 0.8s 88.5nm M = 5.8 LmH B 15 28.0/um 5.4 LmV B 11.5 9.0/um
18.	ePKP2	A	15 29 47	South of Kermadec Islands 33.3 S 178.1 W H = 15 09 20 h = 172 km MB = 4.4 D = 161.25 Az = 340 (ISC)
18.	ePKP2	A	18 46 19	Kermadec Islands 30.27 S 177.14 W
	LmV	B	20 11.3	H = 18 25 49.7 h = 33 km MB=5.3 MS=5.8
	LmH	B	11.8	D = 158.61 Az = 345 (NEIS) LmH B 18s 0.8/um M = 5.5 LmV B 16 0.9/um 5.7

Day	Phase		h m s	Remarks
18.	ePKP2	A	19 08 18.5	South of Kermadec Islands 32.51 S 178.21 W H = 18 47 40.3 h = 33 km MB = 5.1 (NEIS) D = 160.6
18.	ePKP2	A	19 40 39	Kermadec Islands 30.23 S 177.06 W
	LmH	B	21 05.8	H = 19 20 16.3 h = 96 km MB = 4.8 (NEIS)
	LmV	B	05.8	D = 158.5 LmH B 17s 0.7/um LmV B 16 0.7/um
18.	ePKP2	A	21 06 56.5	South of Kermadec Islands 33.0 S 178.2 W H = 20 46 25 h = 92 km (ISC) D = 161.0
19.	ePKP2	A	07 52 30.5	Kermadec Islands Region 28.80 S 177.34 W H = 07 32 07.6 h = 33 km MB = 4.9 D = 157.15 Az = 345 (NEIS)
19.	eiP	A	09 27 32.5	Iceland 65.67 N 17.00 W
	ei	A	27 36.5	H = 09 22 47.3 h = 10 km MB = 5.0
	LmH	B	37.9	D = 21.03 Az = 122 (NEIS)
	LmV	B	41.1	PV A 1.6s 87.9nm M = 4.9 LmH B 15 2.5/um 4.7 LmV B 14 2.0/um 4.8
19.	ePKP2	A	11 05 33	Kermadec Islands Region 29.46 S 177.0 W H = 10 45 07 h = 32 km D = 157.87 Az = 345 (ISC)
19.	ePKP	A	16 00 10	Samoa 16.80 S 172.61 W H = 15 40 31.2 h = 33 km MB = 5.3 D = 146.06 Az = 355 (NEIS) PKPV A 1.4s 23.3nm

Day	Phase		h m s	Remarks
20.	ePP	A	04 26 45	Marianas Region 17.00 N 147.26 E H = 04 08 47.0 h = 49 km MB = 5.1 (ISC) D = 102.3
20.	eP	A	04 50 29	Iceland 65.77 N 16.58 W H = 04 45 47.1 h = 33.0 km MB = 4.9 D = 20.94 Az = 123 (NEIS)
20.	e	A	06 54 15.5	Off East Coast of Kamchatka 51.55 N 159.52 E H = 06 42 22.9 h = 16.5 km MB = 4.6 D = 74.60 Az = 339 (NEIS)
20.	e(Pn)	A	07 21 41	Central Italy 43.00 N 13.41 E H = 07 19 35.2 h = 10 km (CSEM) D = 7.75
	e(Sn)	A	23 07	
20.	ePKIKP	A	17 40 58	Fiji Islands Region 20.11 S 177.88 W
	iPKHKP	A	41 02.5	H = 17 22 15.2 h = 544.2 km MB = 5.0
	ePKP2	A	41 08	D = 148.62 Az = 348 (NEIS) PKIKPV A traces PKHKPV A 1.8s 94.6nm M = 5.0
20.	ePKHKP	A	19 36 02.5	Tonga Islands 21.92 S 174.10 W
	ePKP2	A	36 09.5	H = 19 16 12.0 h = 33 km MB=5.4 MS=4.8 D = 150.98 Az = 352 (NEIS) PKHKPV A 1.6s 71.4nm
21.	ePKP2	A	04 42 07	Kermadec Islands 29.62 S 177.86 W H = 04 21 41.8 h = 51 km MB = 4.8 D = 157.8
21.	eP	A	06 11 26	Eastern Siberia 67.84 N 140.12 E H = 06 01 50.9 h = 33 km MB=5.0 MS=4.7 D = 55.73 Az = 323 (NEIS) PV A 1.2s 28.5nm M = 5.2

Day	Phase		h m s	Remarks
21.	+eiP	AB	10 17 19	Kurile Islands 44.92 N 149.12 E
	e	B	19 16	H = 10 05 24.1 h = 40.8 km MB=6.3 MS=7.0
	eiS	BC	27 20	D = 77.93 Az = 334 (NEIS)
	eSS	C	32 15	PV A 1.7s 1181.8nm M = 6.6
	LmH	B	56.2	LmH B 17 133.2/um 7.3
	LmV	B	57.0	LmV B 19 135.0/um 7.3
21.	eP	A	10 26 09	Kurile Islands 44.60 N 149.50 E
	epP	A	26 23	H = 10 14 13.1 h = 49 km MB = 5.8 D = 78.34 Az = 334 (NEIS) h = 44 km PV A 1.6s 247.3nm M = 5.9 pPV A 1.6 247.3nm
21.	eP	A	10 30 57	Kurile Islands 44.54 N 149.43 E
	+ipP	A	31 08.3	H = 10 19 12.0 h = 47 km MB = 5.8 D = 78.37 Az = 334 (NEIS) h = 42 km PV A 1.9s 113.6nm M = 5.5 pPV A 1.5 201.0nm
21.	eP	A	10 34 46	Kurile Islands 44.50 N 149.31 E H = 10 22 49.0 h = 50.0 km MB = 5.6 D = 78.37 Az = 334 (NEIS) PV A 1.7s 139.4nm M = 5.7
21.	eP	A	10 37 52	Kurile Islands 44.41 N 149.35 E H = 10 25 52.8 h = 33.0 km MB = 5.2 D = 78.46 Az = 334 (NEIS) PV A 1.5s 35.2nm M = 5.2
21.	+iP	A	11 03 10	Kurile Islands 44.85 N 149.39 E H = 10 51 15.4 h = 56.5 km MB = 5.7 D = 78.07 Az = 334 (NEIS) PV A 1.4s 209.3nm M = 5.9
21.	eP	A	11 21 43.5	Kurile Islands 44.30 N 149.24 E H = 11 09 43.1 h = 33 km MB = 4.9 D = 78.52 Az = 334 (NEIS)

Day	Phase		h m s	Remarks
21.	eP	A	11 28 25	Kurile Islands 44.45 N 149.57 E H = 11 16 27.3 h = 44.7 km MB = 5.0 D = 78.49 Az = 334 (NEIS) PV A 1.6s 38.5nm M = 4.1
21.	eP	A	11 33 59	Off Coast of Hokkaido, Japan 42.99 N 149.95 E H = 11 21 43.2 h = 33.0 km MB = 4.6 D = 80.56 Az = 335 (NEIS)
21.	eP	A	11 40 35.5	Kurile Islands 44.18 N 149.56 E H = 11 28 33.8 h = 32.3 km MB = 4.8 D = 78.73 Az = 334 (NEIS)
21.	eP	A	12 59 50	Kurile Islands 44.44 N 149.46 E H = 12 47 49.9 h = 28.0 km MB = 5.3 D = 78.47 Az = 334 (NEIS) h = 32 km PV A 2.0s 170.9nm M = 5.7
	epP	A	59 58	
	esP	A	13 00 02.5	
21.	eP	A	13 06 58.5	Kurile Islands 44.65 N 149.36 E H = 12 55 02.3 h = 57.8 km MB = 4.9 D = 78.24 Az = 334 (NEIS)
21.	eP	A	13 26 18.5	Kurile Islands 44.44 N 149.34 E H = 13 14 19.7 h = 47.0 km MB = 5.1 D = 78.43 Az = 334 (NEIS) h = 35 km PV A 2.2s 185.4nm M = 5.7
	epP	A	26 28	
21.	eP	A	14 06 02.5	Kurile Islands 44.58 N 149.42 E H = 13 54 05.1 h = 49.0 km MB = 5.0 D = 78.32 Az = 334 (NEIS) h = 47 km
	ipP	A	06 15.3	
21.	epP	A	14 24 09.5	Kurile Islands 44.45 N 149.50 E H = 14 12 00.0 h = 51.0 km MB = 4.9 D = 78.47 Az = 334 (NEIS)

Day	Phase		h m s	Remarks
21.	eP	A	14 37 01	Iceland 65.71 N 16.74 W H = 14 32 19.2 h = 33.0 km MB = 4.6 D = 20.96 Az = 122 (NEIS) PV A 1.5s 32.7nm M = 4.5
21.	eP	A	15 04 54	Kurile Islands 44.85 N 149.46 E H = 14 52 57.2 h = 48.0 km MB = 4.6 D = 78.10 Az = 334 (NEIS)
21.	eP	A	15 30 55	Kurile Islands 44.75 N 149.46 E H = 15 18 58.3 h = 47.0 km MB = 5.1 D = 78.18 Az = 334 (NEIS) h = 41 km
	epP	A	31 06	
21.	eP	A	16 03 40.5	Kurile Islands 44.60 N 149.16 E H = 15 51 44.0 h = 50.0 km MB = 4.9 D = 78.22 Az = 334 (NEIS)
21.	eP	A	18 08 18	Kurile Islands 44.78 N 149.52 E H = 17 56 20.5 h = 38 km MB = 4.9 D = 78.18 Az = 334 (NEIS)
21.	+eP	A	18 13 08	Kamchatka 58.94 N 163.56 E H = 18 02 08.1 h = 33 km MB=5.6 MS=5.6 D = 68.40 Az = 341 (NEIS) PV A 1.4s 88.4nm M = 5.7 LmH B 18 8.6/um 6.0 LmV B 16 3.6/um 5.7
	LmH	B	44.8	
	LmV	B	49.8	
21.	eP	A	18 29 35	Kurile Islands 44.38 N 149.44 E H = 18 17 37.2 h = 44.0 km MB = 4.9 D = 78.51 Az = 334 (NEIS) PV A 1.9s 37.9nm M = 5.1
21.	eP	A	21 08 08	Kurile Islands 44.48 N 149.35 E H = 20 56 05.7 h = 40.0 km MB = 4.9 D = 78.40 Az = 334 (NEIS)

Day	Phase		h m s	Remarks
21.	eP	A	21 12 41	Kurile Islands 44.43 N 149.39 E
	epP	A	12 52.5	H = 21 00 42.8 h = 40.0 km MB = 5.3
	LmH	C	45.8	D = 78.45 Az = 334 (NEIS)
	LmV	C	51.2	h = 43 km
				PV A 2.2s 163.6nm M = 5.6
				LmH C 17 5.3/um 5.9
				LmV C 12 3.1/um 5.9
21.	eP	A	21 31 34.5	Kurile Islands 44.63 N 149.30 E
				H = 21 19 03.1 h = 46.0 km MB = 5.1
				D = 78.24 Az = 334 (NEIS)
21.	eP	A	22 21 37	Kurile Islands Region 44.0 N 149.5 E
	e	A	21 55	H = 22 09 33 h = 33 km MB = 4.5
				D = 78.93 Az = 334 (ISC)
22.	eP	A	00 26 39	Kurile Islands 45.21 N 149.21 E
				H = 00 14 45.3 h = 54.1 km MB = 4.9
				D = 77.69 Az = 334 (NEIS)
22.	eP	A	02 34 27	Kurile Islands 45.12 N 149.52 E
				H = 02 22 31.3 h = 33 km MB = 5.0
				D = 77.87 Az = 334 (NEIS)
22.	eiP	A	05 38 00.3	Kurile Islands 44.44 N 149.59 E
	ei	A	38 25	H = 05 26 01.8 h = 44 km MB = 5.4
				D = 78.51 Az = 334 (NEIS)
				PV A 1.1s 44.4nm M = 5.4
22.	eP	A	06 24 41.5	Kurile Islands 44.59 N 149.19 E
				H = 06 12 44.7 h = 49 km MB = 5.2
				D = 78.25 Az = 334 (NEIS)
				PV A 1.7s 42.4nm M = 5.2
22.	eP1	A	06 46 15	Kamchatka 59.01 N 163.72 E
	eP2	A	46 19.5	H = 06 35 15.1 h = 33 km MB=5.2 MS=5.1
				D = 8.36 Az = 341 (NEIS)
				P1V A 0.9s 15.6nm M = 5.1
				P2V A 1.2 52.9nm M = 5.5

Day	Phase		h m s	Remarks
22.	eP	AB	08 19 09	Kurile Islands 44.39 N 149.62 E
	eS	C	29 05	H = 08 07 10.4 h = 44 km MB=5.4 MS=5.6
	eSS	C	34 20	D = 78.56 Az = 334 (NEIS)
	LmH	B	53.1	PV A 2.6s 329.3nm M = 5.9
	LmV	B	57.9	LmH B 20 12.9/um 6.3
				LmV B 15 6.1/um 6.1
22.	eP	A	08 27 36	Kurile Islands 44.22 N 149.74 E
				H = 08 15 36.3 h = 46 km MB = 5.1
				D = 78.75 Az = 334 (NEIS)
				PV A 1.2s 40.7nm M = 5.3
22.	eP	A	08 30 36	Kurile Islands 45.01 N 149.63 E
				H = 08 18 40.5 h = 45 km MB = 5.3
				D = 78.00 Az = 334 (NEIS)
22.	eP	A	08 41 40	Kurile Islands 44.3 N 149.5 E
				H = 08 29 45 h = 69 km MB = 4.6
				D = 78.62 Az = 334 (ISC)
				traces
22.	eP	A	09 12 53	Kurile Islands 44.52 N 149.19 E
				H = 09 00 56.8 h = 55 km MB = 5.6
				D = 78.31 Az = 334 (NEIS)
				PV A 2.0s 230.8nm M = 5.8
22.	eP	A	10 10 15	Iceland 65.84 N 16.75 W
				H = 10 05 33.2 h = 33 km MB = 4.5
				D = 21.03 Az = 123 (NEIS)
22.	eP	A	10 50 57.5	Kurile Islands 44.82 N 149.32 E
				H = 10 39 02.6 h = 52 km MB = 4.9
				D = 78.08 Az = 334 (NEIS)
				PV A 2.0s 59.8nm M = 5.3
22.	eP	A	11 02 05	Off East Coast of Kamchatka
	e	A	02 18	51.61 N 159.44 E
				H = 10 50 25.7 h = 22.1 km MB = 5.0
				D = 74.52 Az = 339 (NEIS)

Day	Phase		h m s	Remarks
22.	ePKHKP	A	11 19 13	South of Fiji Islands 24.59 S 179.42 E H = 11 00 09.9 h = 455.8 km MB = 5.1 D = 152.32 Az = 343 (NEIS)
22.	eP	A	11 31 38	Kurile Islands 44.70 N 149.36 E H = 11 19 41.1 h = 44 km MB = 4.8 D = 78.20 Az = 334 (NEIS)
22.	eP	A	11 54 02	Kurile Islands 44.16 N 149.32 E
	epP	A	54 14.5	H = 11 42 01.6 h = 46.0 km MB = 5.3 D = 78.68 Az = 334 (NEIS) h = 46 km
22.	eP	A	14 55 13	Cyprus 34.47 N 32.81 E H = 14 50 16.9 h = 33 km MB = 3.6 D = 22.35 Az = 323 (NEIS)
22.	eP	A	15 15 58	Kurile Islands 44.67 N 149.46 E H = 15 04 01.0 h = 47.0 km MB = 5.1 D = 78.26 Az = 334 (NEIS)
22.	eP	A	15 25 17.5	Kurile Islands 44.48 N 149.82 E H = 15 13 16.6 h = 33 km MB = 4.4 D = 78.54 Az = 334 (NEIS)
22.	eP	A	15 27 22	Kurile Islands 45.10 N 149.14 E
	epP	A	27 33	H = 15 15 24.8 h = 33 km MB = 5.0 D = 77.77 Az = 334 (NEIS) h = 41 km
22.	e	A	16 18 11	Luzon, Philippine Islands 18.93 N 120.04 E H = 16 05 17.0 h = 32 km MB = 5.2 D = 86.66 Az = 323 (NEIS)
22.	eP	A	16 33 12	Kurile Islands 44.44 N 149.22 E
	epP	A	33 26.5	H = 16 21 15.1 h = 52 km MB = 5.2 D = 78.39 Az = 334 (NEIS) h = 54 km PV A 1.5s 30.2nm M = 5.1

Day	Phase		h m s	Remarks
22.	eP	A	17 21 47	Kurile Islands 44.19 N 149.30 E H = 17 09 46.0 h = 28.2 km MB = 5.0 D = 78.64 Az = 334 (NEIS)
22.	eP	A	17 38 13.5	Kurile Islands 44.51 N 149.11 E
	LmH	B	18 13.8	H = 17 26 16.8 h = 52 km MB = 5.2
	LmV	B	17.9	D = 78.29 Az = 334 (NEIS) PV A 2.0s 119.7nm M = 5.5 LmH B 15 3.9/um LmV B 16 3.5/um
22.	eP	A	18 01 00.5	Kurile Islands 44.59 N 149.43 E
	epP	A	01 14.5	H = 17 49 03.0 h = 46 km MB=5.2 MS=5.4 D = 78.32 Az = 334 (NEIS) h = 54 km PV A 2.1s 110.2nm M = 5.5
22.	eP	A	21 00 38	Iceland Region 65.97 N 16.07 W
	e	A	00 56	H = 20 55 58.8 h = 33 km MB = 4.5 D = 20.87 Az = 124 (NEIS) PV A 1.1s 20.2nm M = 4.4
23.	eP	A	00 22 33	Kurile Islands 44.72 N 149.18 E H = 00 10 37.2 h = 47 km MB = 5.1 D = 78.13 Az = 337 (NEIS)
23.	eP	A	01 03 29	Kurile Islands 44.87 N 149.86 E H = 00 51 30.5 h = 33 km MB = 4.8 D = 78.20 Az = 334 (NEIS) PV A 1.2s 16.3nm M = 4.9
23.	eP	A	01 34 07	Hindu Kush Region 36.10 N 70.92 E H = 01 26 04.6 h = 92.3 km MB = 5.1 D = 44.31 Az = 308 (NEIS) PV A 1.2s 16.3nm M = 4.7
23.	+eP	A	02 36 53	Kurile Islands 44.08 N 149.61 E
	epP	A	37 05	H = 02 24 51.5 h = 33 km MB=5.4 MS=5.2

Day	Phase		h m s	Remarks
cont. 23.	LmV	B	03 16.5	D = 78.84 Az = 334 (NEIS)
	LmH	B	16.6	h = 44 km
				PV A 2.3s 219.4nm M = 5.8
				pPV A 2.3 316.9nm
				LmH B 16 2.4/um 5.6
				LmV B 15 2.2/um 5.6
23.	eSn	A	03 05 26	Northern Italy 44.24 N 9.32 E
	eSg	A	06 07	H = 03 02 41.1 h = 10 km (CSEM)
				D = 6.63
23.	eP diff	AB	05 58 45	Flores Sea 7.48 S 119.91 E
	ePKIKP	AB	06 02 48	H = 05 45 30.5 h = 614 km MB = 6.5
	ePP	A	03 25	D = 107.33 Az = 321 (NEIS)
	epPKIKP	B	05 20	P diff V A 1.5s 40.2nm
	e	B	06 20	PKIKPV A 2.6. 260.0nm
	e	B	07 36	PPV A 2.0 128.2nm M = 5.9
	e	B	08 25	SPV B 10 8.3/um
	iSP	B	11 25	PKKP1V A 1.4 130.2nm
	ePKKP1	A	14 05	PKKP2V A 1.8 162.2nm
	ePKKP2	A	14 23	LmH B 16 2.4/um
	LmH	B	50.8	LmV B 16 3.5/um
	LmV	B	52.6	
23.	ePKP	A	18 53 11.5	South of Australia 50.32 S 139.56 E
	LmV	B	20 03.3	H = 18 33 30.3 h = 33 km MB=5.6 MS=5.9
	LmH	B	11.5	D = 147.44 Az = 291 (NEIS)
				PKPV A 1.6s 76.9nm
				LmV B 20 1.6/um M = 5.8
24.	eP	A	02 03 41	Kurile Islands 43.05 N 147.18 E
	epP	A	03 52	H = 01 51 38.4 h = 33 km MB=5.1 MS=4.7
				D = 78.98 Az = 333 (NEIS)
				h = 41 km
				PV A 1.6s 22.0nm M = 4.9
24.	eP	A	02 12 15	Kurile Islands 43.02 N 147.13 E
	epP	A	12 25.5	H = 02 00 12.3 h = 33 km MB = 5.3

Day	Phase		h m s	Remarks
cont. 24.	LmH	B	02 50.3	D = 78.98 Az = 333 (NEIS)
	LmV	B	54.7	h = 39 km
				PV A 1.6s 44.0nm M = 5.2
				LmH B 16 1.7/um 5.5
				LmV B 16 1.7/um 5.5
24.	ePKP2	A	02 21 38	Kermadec Islands Region
				27.36 S 178.37 W
				H = 02 01 14.1 h = 33 km MB = 4.9
				D = 155.53 Az = 345 (NEIS)
				PKP2V A traces
24.	+eP	A	03 32 25.5	Ryukyu Islands 27.45 N 128.32 E
				H = 03 19 57.3 h = 56 km MB = 5.4
				D = 84.30 Az = 325 (NEIS)
				PV A 1.6s 38.5nm M = 5.2
24.	ePKP2	A	07 15 29.5	Kermadec Islands 29.57 S 177.05 W
				H = 06 55 02.9 h = 33 km MB = 5.3 (NEIS)
				D = 158.0
				PKP2V A 0.9s 15.6nm
24.	ePKP	A	08 28 41	Loyalty Islands Region 22.0 S 169.9 E
				H = 08 09 02 h = 33 km
				D = 146.78 Az = 335 (ISC)
24.	eP	A	09 56 02	Kurile Islands 44.45 N 149.04 E
	epP	A	56 13	H = 09 44 04.8 h = 44 km MB=5.1 MS=3.8
				D = 78.29 Az = 334 (NEIS)
				h = 41 km
				PV A 1.7s 33.3nm M = 5.1
24.	e	A	10 53 34.5	Kurile Islands 44.40 N 149.12 E
	e	A	53 39	H = 10 41 27.3 h = 33 km MB = 4.9
	e	A	53 52	D = 78.40 Az = 334 (NEIS)
	LmH	C	11 26.5	LmH C 20s 0.6/um M = 4.7

Day	Phase	h m s	Remarks
24.	e(P) A	12 08 36	Iceland 65.0 N 20.0 W
			H = 12 03 39 h = 33 km
			D = 21.80 Az = 116 (ISC)
			(P)V A 1.5s 20.1nm M = 4.3
24.	eP A	17 32 32	Kurile Islands 44.33 N 149.61 E
			H = 17 20 32.1 h = 36.2 km MB = 4.7 (NEIS)
			D = 78.5
24.	eP A	19 24 44	Kurile Islands 44.55 N 149.20 E
	epP A	24 55	H = 19 12 46.6 h = 48 km MB = 5.1
	LmH C	57.6	D = 78.29 Az = 334 (NEIS)
	LmV C	58.5	h = 41 km
			LmH C 20s 1.6/um M = 5.4
			LmV C 17 0.7/um 5.1
24.	+eiPKIKP AB	22 08 12.5	Kermadec Islands Region
	ePKHKP A	08 23.5	28.64 S 177.59 W
	ePKP2 AB	08 43	H = 21 48 25.8 h = 78.2 km MB = 6.2
	ePP AB	12 19	D = 156.94 Az = 345 (NEIS)
	eSKSP C	22 45	PKIKPV A 2.0s 265.0nm
	ePPS C	25 30	PKIKPV B 7.0 2.4/um
	eSS C	33 30	PKHKPV A 2.1 201.3nm
	LmV E	23 13.5	PKP2V A 1.5 356.8nm
	LmH B	15.7	PPV A 2.2 185.4nm M = 5.8
			PPV B 8 2.2/um 6.3
			LmH B 25 3.1/um
			LmV B 24 2.7/um
24.	eP A	22 51 02	Kurile Islands 44.50 N 149.18 E
	epP A	51 16	H = 22 39 05.0 h = 47 km MB=5.2 MS=5.6
			D = 78.32 Az = 334 (NEIS)
			h = 52 km
			PV A traces
24.	eP A	23 34 38	Kurile Islands 44.51 N 149.08 E
	epP A	34 48	H = 23 22 41.6 h = 47 km MB = 5.0
			D = 78.28 Az = 334 (NEIS)
			h = 37 km

Day	Phase	h m s	Remarks
24.	eP A	24 00 07.5	Kurile Islands Region 44.0 N 149.6 E
	e A	00 22	H = 23 48 09 h = 53 km MB = 4.9
			D = 78.93 Az = 334 (ISC)
			PV A 1.5s 20.1nm M = 4.9
25.	eP A	00 59 43	Kurile Islands 44.49 N 149.06 E
			H = 00 47 44.3 h = 33 km MB = 4.9
			D = 78.30 Az = 334 (NEIS)
25.	eP A	01 43 04.5	Kurile Islands 44.12 N 147.52 E
			H = 01 31 06.4 h = 33 km
			MB = 4.7 MS = 4.5 (NEIS)
			D = 78.1
25.	+iP AB	12 35 51	Kurile Islands 44.80 N 149.79 E
	eS C	45 44	H = 12 23 55.5 h = 54 km MB = 5.9
	ePS C	46 15	D = 78.24 Az = 334 (NEIS)
	eSS C	51 25	PV A 1.5s 427.1nm M = 6.2
	eSSS C	54 20	PH A 1.5 186.1nm 6.1
	LmH B	13 10.7	PV B 5 3.7/um 6.6
	LmV B	14.5	LmH B 17 15.5/um
			LmV B 18.5 15.1/um
25.	eP A	13 07 57	Kurile Islands 44.36 N 149.25 E
	epP A	08 11	H = 12 55 59.3 h = 47.4 km MB = 5.1
			D = 78.47 Az = 334 (NEIS)
			h = 52 km
			PV A 1.8s 47.3nm M = 5.2
25.	ePKP2 A	13 42 37	Balleny Islands Region 61.34 S 154.83 E
			H = 13 22 04.9 h = 33 km MB = 5.2 (NEIS)
			D = 157.1
			PKP2V A 1.7s 21.2nm
25.	eP A	14 41 18	Kurile Islands Region 44.94 N 150.12 E
	epP A	41 29.5	H = 14 29 20.7 h = 46 km MB = 4.8
			D = 78.22 Az = 334 (NEIS)
			h = 43 km

Day	Phase		h m s	Remarks
25.	eP	A	15 42 24	Iceland Region 66.27 N 17.12 W
				H = 15 37 33.4 h = 10 km MB = 4.2 (NEIS)
				D = 21.3
25.	eP	A	15 45 56	Iceland Region 66.30 N 17.01 W
	e	A	46 00	H = 15 41 06.9 h = 10 km MB = 4.4
	e	A	46 06	D = 21.37 Az = 123 (NEIS)
25.	eP	A	17 58 05	Kurile Islands 44.55 N 149.03 E
	epP	A	58 17	H = 17 46 08.7 h = 57 km MB = 5.1
	e	A	58 32	D = 78.23 Az = 334 (NEIS)
	LmH	C	18 30.8	h = 44 km
				PV A 2.0s 59.8nm M = 5.2
				LmH C 20 0.45/um
25.	eP	A	19 26 37.5	Kurile Islands 44.39 N 149.13 E
				H = 19 14 38.6 h = 33 km MB = 4.9
				D = 78.41 Az = 334 (NEIS)
25.	eP	A	20 01 21	Kurile Islands 44.43 N 149.28 E
				H = 19 49 22.2 h = 33 km MB = 4.8
				D = 78.42 Az = 334 (NEIS)
				PV A 1.4s 16.3nm M = 4.9
25.	eP	A	22 02 13	Iceland 65.67 N 17.27 W
				H = 21 57 26.9 h = 10 km MB = 4.3 (NEIS)
				D = 21.1
				PV A 1.5s 22.6nm M = 4.3
25.	eP	A	22 16 43	Kurile Islands 44.76 N 149.93 E
				H = 22 04 44.3 h = 33 km MB = 4.8
				D = 78.33 Az = 334 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
26.	eP	A	03 00 29.5	Southwestern Ryukyu Islands
				23.83 N 123.67 E
				H = 02 47 56.5 h = 33 km MB = 5.4
				D = 84.78 Az = 324 (NEIS)
				PV A 1.3s 17.5nm M = 5.1

Day	Phase		h m s	Remarks
26.	LmH	C	04 09.5	Near Coast of Guatemala
	LmV	C	12.5	13.86 N 91.12 W
				H = 03 17 46.7 h = 73 km MB = 4.9 (ISC)
				D = 87.2
				LmH C 21s 0.5/um
				LmV C 20 0.6/um
26.	eP	A	04 17 28	Cyprus 34.3 N 32.7 E
				H = 04 12 31.0 h = 42 km
				D = 22.43 Az = 323 (ISC)
26.	eP	A	05 34 33	Kurile Islands 44.84 N 149.83 E
				H = 05 22 35.4 h = 33 km MB = 5.0 (NEIS)
				D = 78.2
				PV A traces
26.	ePKIKP	A	08 47 06.5	Fiji Islands Region 19.83 S 176.18 W
	ePKHKP	A	47 10	H = 08 27 52.8 h = 261 km MB = 5.1 (NEIS)
	ePKP2	A	47 15.5	D = 148.5
				PKHKPV A 1.8s 47.3nm
26.	eP	A	16 28 38	Kamchatka 58.74 N 163.78 E
				H = 16 17 36.4 h = 33 km MB = 4.4
				D = 68.65 Az = 341 (NEIS)
26.	ePKIKP	AC	19 10 27	Kermadec Islands 29.51 S 177.08 W
	ePKP2	A	11 00	H = 18 50 36.9 h = 59 km MB = 5.5 (NEIS)
	e	A	11 07	D = 157.9
	LmH	B	20 33.5	LmH B 18s 0.7/um
	LmV	B	33.5	LmV B 18 1.0/um
26.	eP	A	21 13 02	Iceland 65.74 N 17.02 W
	LmV	B	26.6	H = 21 08 18.3 h = 10 km MB = 4.3 (NEIS)
	LmH	B	26.7	D = 20.8
				LmH B 14s 0.8/um M = 4.3
				LmV B 14 0.9/um 4.5

Day	Phase		h m s	Remarks
26.	ePKP	A	22 05 47.5	Samoa Islands Region 15.95 S 172.51 W
	LmH	B	23 19.0	H = 21 46 13.4 h = 36.3 km
	LmV	B	19.0	MB = 5.0 MS = 5.5 (NEIS)
				D = 145.3
				PKPV A 2.4s 69.1nm
				LmH B 17 0.7/um M = 5.3
				LmV B 17 0.8/um 5.5
26.	eP	A	22 49 32.5	Cyprus 35.93 N 31.15 E
	ei	A	49 35	H = 22 44 59.5 h = 77.3 km MB = 4.6 (NEIS)
				D = 20.3
				PV A 1.0s 43.3nm M = 4.7
26.	ePKP2	A	23 54 31.5	Kermadec Islands Region
	e	A	54 42.5	29.90 S 176.76 W
				H = 23 34 02.8 h = 33 km MB = 4.5 (NEIS)
				D = 158.2
27.	ePKP2	A	02 44 20	Kermadec Islands 29.7 S 177.3 W
				H = 02 23 59 h = 66 km
				D = 158.05 Az = 345 (ISC)
27.	ePKIKP	A	04 20 10	Solomon Islands 6.76 S 154.89 E
	LmH	B	05 54.3	H = 04 01 08.9 h = 38.3km MB=5.5 MS=5.4
	LmV	B	54.5	D = 126.65 Az = 332 (NEIS)
				LmH B 19s 0.5/um M = 5.2
				LmV B 20 1.0/um 5.5
27.	ePKP2	A	04 38 33	Kermadec Islands Region
				29.35 S 176.80 W
				H = 04 18 08.8 h = 55 km
				MB = 5.1 MS = 5.4 (NEIS)
				D = 157.8
				PKP2V A 1.2s 16.3nm
27.	eP	A	04 59 37	Kurile Islands Region 44.53 N 150.02 E
				H = 04 47 35.3 h = 14.5 km MB = 5.2 (NEIS)
				D = 78.5
				PV A 1.2s 16.3nm M = 5.0

Day	Phase		h m s	Remarks
27.	ePKP	A	10 06 36	Samoa Islands Region 16.67 S 172.24 W
				H = 09 47 00.0 h = 44.3 km MB = 4.9 (NEIS)
				D = 145.9
				PKPV A 2.0s 25.6nm
27.	ePKIKP	A	11 28 43	Kermadec Islands Region 29.89 S 176.83 W
	e	B	29 16	H = 11 08 50.2 h = 33 km
	e	A	29 20	MB = 5.4 MS = 5.9 (NEIS)
	ePP	B	32 56	D = 158.2
	LmH	B	12 55.6	LmH B 17s 2.0/um M = 6.0
	LmV	B	57.2	LmV B 18 2.0/um 6.0
27.	ePKP2	A	15 22 00	Kermadec Islands Region 29.47 S 176.83 W
				H = 15 01 33.1 h = 47 km
				MB = 5.1 MS = 5.4 (NEIS)
				D = 157.8
27.	eP	A	16 19 04	Off Coast of Oregon 43.57 N 127.41 W
	LmH	B	54.7	H = 16 06 47.5 h = 33 km
	LmV	B	55.7	MB = 5.2 MS = 4.9 (NEIS)
				D = 79.4
				PV A 1.6s 16.5nm M = 4.8
				LmH B 16 0.8/um 5.1
				LmV B 16 0.9/um 5.2
27.	eP	A	23 25 03	Greece 38.63 N 22.59 E
				H = 23 21 37.7 h = 33 km MB = 4.1
				D = 14.31 Az = 331 (NEIS)
				PV A traces
27.	ePP	A	23 43 40	South of Honshu, Japan 31.39 N 138.05 E
				H = 23 28 20.9 h = 394 km MB = 5.0 (NEIS)
				D = 85.6
28.	+eP	AB	19 47 50	Kurile Islands 44.34 N 149.30 E
	LmH	B	20 27.3	H = 19 35 51.9 h = 48 km MB=5.6 MS=4.8
	LmV	B	28.3	D = 78.50 Az = 334 (NEIS)
				PV A 1.6s 132.0nm M = 5.7
				LmH B 16 0.9/um 5.2
				LmV B 16 0.7/um 5.2

Day	Phase		h m s	Remarks
29.	eP	A	00 18 09	Kurile Islands 44.20 N 149.32 E
	ei	A	18 15	H = 00 06 08.3 h = 30.1 km MB=5.4 MS=4.
	LmH	B	51.7	D = 78.64 Az = 334 (NEIS)
	LmV	B	57.6	PV A 1.7s 97.0nm M = 5.5
				LmH B 18 0.7/um 5.0
				LmV B 16 0.9/um 5.2
29.	eP	A	14 28 53.5	Kurile Islands 44.33 N 149.50 E
	LmH	C	15 02.5	H = 14 16 55.2 h = 47 km MB = 5.1
	LmV	C	07.6	D = 78.57 Az = 334 (NEIS)
				PV A 2.0s 68.5nm M = 5.3
				LmH C 19 1.4/um 5.3
				LmV C 18 0.7/um 5.1
29.	eP	A	18 58 00	Off Coast of Oregon 43.56 N 127.25 W
	e	A	58 22	H = 18 45 54.3 h = 33 km MB=5.2 MS=4.7
				D = 79.58 Az = 25 (NEIS)
29.	eP	A	20 40 04.5	Kurile Islands 44.44 N 149.94 E
				H = 20 27 53.6 h = 43 km MB = 4.7 (NEIS)
				D = 78.5
				PV A 1.2s 24.4nm M = 5.1
29.	eP	A	23 37 46	Kurile Islands 44.28 N 149.60 E
				H = 23 25 45.8 h = 43.9 km MB = 4.8
				D = 78.65 Az = 334 (NEIS)
31.	eP	A	00 37 31.5	Kurile Islands 44.00 N 149.21 E
	LmH	B	01 10.8	H = 00 25 31.4 h = 41 km MB=5.4 MS=4.9
	LmV	B	17.5	D = 78.79 Az = 334 (NEIS)
				PV A 1.3s 61.1nm M = 5.4
				LmH B 17 3.5/um 5.8
				LmV B 16 2.7/um 5.7
30.	eP	A	14 00 50	Kurile Islands 44.36 N 149.72 E
				H = 13 48 47.3 h = 16 km MB = 5.0
				D = 78.62 Az = 334 (NEIS)
				PV A 1.6s 27.4nm M = 5.0

Day	Phase		h m s	Remarks
31.	eP	A	02 09 15	Kurile Islands 44.08 N 149.15 E
	epP	A	09 28	H = 01 57 15.1 h = 47 km MB=5.3 MS=4.8
	LmH	B	42.4	D = 78.69 Az = 334 (NEIS)
	LmV	B	49.2	PV A 1.5s 75.4nm M = 5.4
				LmH B 19 2.3/um 5.5
				LmV B 15 1.8/um 5.6
31.	ePKP2	A	05 47 34	Kermadec Islands Region 30.42 S 176.77 W
				H = 05 26 57 h = 2 km
				D = 158.84 Az = 345 (ISC)
31.	ePKIKP	A	08 40 43	Fiji Islands Region 21.47 S 179.29 W
	ePKHKP	A	40 48.5	H = 08 22 07.4 h = 628 km MB = 5.5
	ePKP2	A	40 56	D = 149.64 Az = 346 (NEIS)
	epPKP2	A	43 13	PKHKPV A 1.2s 61.0nm
				PKP2V A 1.2 32.5nm
31.	+eP	A	22 45 13.5	Iceland 65.64 N 16.84 W
	LmH	B	55.6	H = 22 40 28.4 h = 7.7 km MB=4.9 MS=4.5
	LmV	B	57.8	D = 20.95 Az = 122 (NEIS)
				PV A 1.4s 32.6nm M = 4.5
				LmH B 13.5 1.3/um 4.5
				LmV B 10.5 1.7/um 4.9

Day	Phase		h m s	Remarks
1.	ePKP2	A	06 58 22	Kermadec Islands 29.45 S 177.30 W
				H = 06 38 00.0 h = 62 km MB = 5.6 (NEIS)
				D = 157.8
				PKP2V A 1.3s 17.5nm
1.	+iP	AB	11 27 53	Guerrero, Mexico 17.17 N 100.19 W
	eSKS	C	38 24	H = 11 14 57.3 h = 52.3 km MB=5.7 MS=5.6
	eS	C	38 52	D = 89.99 Az = 36 (NEIS)
	eSS	C	44 40	PV A 1.6s 66.0nm M = 5.7
	eSSS	C	48 45	LmH B 18.5 2.4/um 5.7
	LmH	B	12 10.0	LmV B 19 2.8/um 5.7
	LmV	B	10.2	
1.	eP	A	13 25 02	Greece 38.86 N 20.52 E
				H = 13 21 53.1 h = 10 km (CSEM)
				D = 13.4
1.	e(PKP2)	A	14 20 07	Tonga Islands 19.58 S 173.11 W
	e	A	20 30	H = 14 00 17.2 h = 33 km MB = 4.9
				D = 148.78 Az = 354 (NEIS)
1.	eP	A	14 42 27	Kurile Islands 44.44 N 149.94 E
	epP	A	42 38	H = 14 30 26.6 h = 41 km MB = 4.8 MS=4.2
				D = 78.62 Az = 334 (NEIS)
				h = 38 km
1.	eP	A	16 25 25	Kurile Islands 44.68 N 149.88 E
				H = 16 13 27.7 h = 47 km MB=5.0 MS=4.0
				D = 78.37 Az = 334 (NEIS)
				PV A 1.8s 33.8nm M = 5.0
1.	eP	A	17 02 08	Kurile Islands 44.78 N 149.80 E
	epP	A	02 20.5	H = 16 50 11.3 h = 43 km MB = 4.7
				D = 78.27 Az = 334 (NEIS)
				h = 47 km
1.	epP	A	22 09 55	Kurile Islands Region 44.31 N 150.07 E
				H = 21 57 47.5 h = 50 km MB = 4.6
				D = 78.77 Az = 335 (NEIS)

Day	Phase		h m s	Remarks
2.	ePKP	A	02 38 09.5	Samoa Islands Region 16.26 S 172.25 W
				H = 02 18 44.4 h = 104.4 km MB = 4.4
				D = 145.56 Az = 356 (NEIS)
2.	+iP	AB	03 11 54	Off East Coast of Kamchatka
	eS	C	21 24	51.50 N 159.49 E
	LmH	B	50.5	H = 03 00 16.2 h = 33 km MB=5.6 MS=5.4
	LmV	B	50.6	D = 74.64 Az = 339 (NEIS)
				PV A 1.6s 121.0nm M = 5.6
				PV B 5.0 1.1/um 6.1
				LmH B 14.5 4.0/um 5.8
				LmV B 14.5 6.0/um 6.1
2.	+eP	A	03 42 22	Off East Coast of Kamchatka
				51.47 N 159.40 E
				H = 03 30 46.0 h = 48.6 km MB=5.1 MS=4.4
				D = 74.65 Az = 339 (NEIS)
				PV A 1.5s 35.2nm M = 5.1
2.	-eiPKP	AB	04 04 53	Tonga Islands 16.01 S 175.23 W
	epPKP	A	06 20	H = 03 45 53.2 h = 328.4 km MB = 5.5
				D = 145.01 Az = 352 (NEIS)
				h = 362 km
				PKPV A 1.5s 252.0nm
2.	LmH	B	06 02.2	Kurile Islands Region 44.46 N 150.06 E
	LmV	B	05.1	H = 05 15 03 h = 8 km MB = 5.0
				D = 78.63 Az = 334 (ISC)
				LmH B 16s 0.8/um M = 5.2
				LmV B 20 1.1/um 5.2
2.	eP	A	06 14 10	Kurile Islands 45.08 N 149.84 E
	epP	A	14 24	H = 06 02 15.3 h = 44 km MB = 4.8
				D = 78.01 Az = 334 (NEIS)
				h = 46 km
2.	eP	A	06 28 02	Kurile Islands 44.69 N 149.90 E
	epP	A	28 14	H = 06 16 03.5 h = 45 km MB = 4.9
				D = 78.38 Az = 334 (NEIS)
				h = 46 km

Day	Phase		h m s	Remarks
2.	eP	A	12 15 57	Greece - Albania Border Region
				39.82 N 20.47 E
				H = 12 12 58.7 h = 33 km MB = 4.5
				D = 12.49 Az = 333 (NEIS)
2.	eP	AB	13 21 34	Iceland Region 66.12 N 16.77 W
	ePP	A	22 00	H = 13 16 45.7 h = 5 km MB=4.8 MS=4.3
	eS	B	25 32	D = 21.19 Az = 123 (NEIS)
	LmH	B	31.0	LmH B 16s 2.9/um M = 5.5
	LmV	B	33.6	LmV B 14 3.3/um 5.5
2.	e	A	13 41 27	Turkey 40.45 N 26.11 E
				H = 13 37 54.8 h = 33 km MB = 4.1
				D = 14.36 Az = 320 (NEIS)
2.	+iPKP2	A	14 08 27	Fiji Islands Region 21.31 S 178.68 W
	i	A	08 34	H = 13 49 40.0 h = 563.0 km MB = 4.8
				D = 149.62 Az = 347 (NEIS)
2.	e(P)	A	14 11 37	Iceland Region 68.0 N 18.1 W
				H = 14 06 35 h = 33 km
				D = 22.66 Az = 125 (ISC)
2.	ePKHKP	A	16 52 12.5	Tonga Islands 21.04 S 175.75 W
	e	A	52 44	H = 16 32 26.9 h = 52.8 km MB = 5.2
				D = 149.89 Az = 351 (NEIS)
3.	ePKP	A	11 31 45	Fiji Islands Region 18.03 S 178.20 W
				H = 11 12 59.6 h = 485.5 km MB = 4.7
				D = 146.52 Az = 349 (NEIS)
3.	ePKIKP	AB	12 46 25	South of Fiji Islands 25.14 S 179.69 E
	ePKHKP	A	46 33	H = 12 27 30.1 h = 477 km MB = 5.8
	ePKP2	A	46 47	D = 152.92 Az = 343 (NEIS)
3.	eP	A	14 44 01	Kurile Islands 44.28 N 149.46 E
	e(pP)	A	44 16.5	H = 14 32 02.1 h = 46 km MB=5.2 MS=4.8
				D = 78.61 Az = 334 (NEIS)
				PV A 1.8s 101.4nm M = 5.5

Day	Phase		h m s	Remarks
3.	eP	A	16 46 25	N.W. Iran - USSR Border Region
	e	A	46 39	39.93 N 48.42 E
	LmV	C	57.2	H = 16 40 40.6 h = 58 km MB = 5.2
	LmH	C	57.4	D = 27.75 Az = 305 (NEIS)
				LmH C 24s 2.0/um M = 4.6
				LmV C 25 1.4/um 4.6
3.	ePKIKP	A	18 23 09	Tonga Islands 18.11 S 175.03 W
	ePKHKP	A	23 12	H = 18 03 52.0 h = 212 km MB = 5.7
	ePKP2	A	23 15.5	D = 147.11 Az = 352 (NEIS)
				PKHKPV A 1.3s 270.7nm
3.	+iP	AB	24 09 18.5	Near East Coast of Kamchatka
	eS	C	18 40	54.50 N 161.89 E
	LmH	B	40.9	H = 23 57 54.9 h = 33 km MB=6.0 MS=5.2
	LmV	B	41.0	D = 72.31 Az = 341 (NEIS)
				PV A 2.2s 926.9nm M = 6.4
				PV B 3 2.0/um 6.6
				LmH B 21 2.9/um 5.5
				LmV B 24 4.2/um 5.7
4.	ePKP2	A	01 44 40.5	Kermadec Islands 30.06 S 177.65 W
				H = 01 24 11.2
				D = 158.29 Az = 344 (ISC)
4.	eP1	AC	09 14 21.5	Guatemala 15.32 N 89.10 W
	eP2	AB	14 48	H = 09 01 43.4 h = 5 km MB=6.2 MS=7.5
	eiS	B	24 50	D = 84.93 Az = 39 (NEIS)
	LmV	B	56.7	P1V B 12s 3.6/um M = 6.5
	LmH	B	10 01.0	P2V B 14 7.1/um 6.7
				SH B 18 36.7/um 7.1
				LmH B 19 202.0/um 7.5
				LmV B 18 213.0/um 7.6
4.	eP	A	09 43 13	Guatemala 14.94 N 90.56 W
				H = 09 30 29.4 h = 5 km MB = 5.4
				D = 86.11 Az = 39 (NEIS)
				PV A 2.4s 276.0nm M = 6.0

Day	Phase		h m s	Remarks
4.	eP	A	10 16 37	Guatemala 14.17 N 90.73 W H = 10 03 49.9 h = 5 km MB = 5.0 D = 86.81 Az = 39 (NEIS)
4.	ePKP	A	13 39 16.5	Samoa Islands Region 16.48 S 172.65 W H = 13 19 39.4 h = 33 km MB = 5.3 D = 145.75 Az = 355 (NEIS)
4.	eP	A	14 31 30	Kurile Islands Region 45.40 N 152.49 E H = 14 19 30.1 h = 33 km MB = 4.7 D = 78.50 Az = 336 (NEIS)
4.	eP	A	14 32 18	Southern Nevada 37.07 N 116.03 W H = 14 20 00.1 h = 0 km MB = 5.8 D = 81.27 Az = 31 (NEIS) Nuclear explosion (USAEC) PV A 1.3s 61.1nm M = 5.5
4.	+eP	A	14 52 18	Southern Nevada 37.11 N 116.04 W H = 14 40 00.2 h = 0 km MB = 5.7 D = 81.24 Az = 31 (NEIS) Nuclear explosion (USAEC) PV A 1.4s 55.7nm M = 5.4
4.	eP	A	23 39 48	Ryukyu Islands 27.38 N 128.33 E H = 23 27 20.6 h = 58.6 km MB = 5.4 D = 84.36 Az = 325 (NEIS) PV A 1.6s 55.0nm M = 5.4
	LmH	B	24 14.9	
	LmV	B	22.4	
4.	ePKP	A	24 01 41	Samoa Islands Region 16.90 S 172.04 W H = 23 42 02.0 h = 33 km MB = 5.0 D = 146.21 Az = 356 (NEIS) PKPV A 1.5s 40.2nm
5.	ePKP	A	01 35 55	Samoa Islands Region 16.58 S 172.23 W H = 01 16 17.0 h = 33 km MB = 4.7 D = 145.88 Az = 356 (NEIS) PKPV A 1.2s 24.4nm

Day	Phase		h m s	Remarks
5.	ePKP	A	02 02 23	Samoa Region 16.6 S 171.7 W H = 01 42 44.4 h = 33 km D = 145.97 Az = 356 (ISC) PKPV A 1.3s 21.8nm
5.	iP	A	04 21 32.5	Southwestern Ryukyu Islands 23.46 N 125.58 E H = 04 08 52.9 h = 33 km MB=5.5 MS=4.0 D = 86.12 Az = 324 (NEIS) PV A 1.5s 50.2nm M = 5.5
	ePP	A	24 51.5	
5.	eP	A	08 22 55	Arabian Sea 14.14 N 53.33 E H = 08 14 05.0 h = 33 km MB = 5.0 D = 49.59 Az = 326 (NEIS) PV A traces
5.	eiP	A	09 47 37	Kenai Peninsula, Alaska 59.99 N 149.35 W H = 09 36 36.5 h = 35.3 km MB=5.2 MS=3.9 D = 68.65 Az = 13 (NEIS) PV A 1.2s 69.0nm M = 5.6
5.	eiSKS	C	10 17 24	Chile - Bolivia Border Region 21.70 S 68.22 W H = 09 53 11.7 h = 97.7 km MB = 5.8 D = 100.31 Az = 40 (NEIS) LmH B 19s 1.2/um LmV B 20 1.7/um
	eS	C	18 15	
	eSP	C	19 40	
	eSS	C	25 10	
	LmH	B	52.1	
	LmV	B	52.5	
5.	+eP	A	17 25 06	Hokkaido, Japan Region 43.06 N 145.85 E H = 17 13 12.5 h = 78 km MB = 5.6 D = 78.52 Az = 332 (NEIS) PV A 1.6s 121.0nm M = 5.6 LmH C 45.0 0.8/um LmV C 60.0 1.1/um
	LmH	C	52.0	
	LmV	C	52.0	
6.	ePKP	A	00 21 09.5	Fiji Islands Region 18.17 S 178.40 W H = 00 02 32.5 h = 590 km MB = 5.2 D = 146.63 Az = 348 (NEIS) PKPV A 1.2s 20.3nm

Day	Phase		h m s	Remarks
6.	ePKIKP	A	02 10 23	South of Kermadec Islands
	ePKP2	A	11 06.5	33.45 S 179.41 W
	LmH	C	03 17.5	H = 01 50 30.0 h = 60 km MB = 5.3
	LmV	C	17.5	D = 161.00 Az = 338 (NEIS)
				PKP2V A 2.2s 65.5nm
				LmH C 25 0.5/um
				LmV C 31 0.7/um
6.	eP	A	04 18 13	North Atlantic Ridge 28.07 N 43.81 W
				H = 04 09 42.3 h = 33 km MB = 4.8
				D = 47.14 Az = 46 (NEIS)
6.	eP	A	07 27 54.5	Iceland Region 65.96 N 17.14 W
	LmH	B	37.9	H = 07 23 05.9 h = 4.8 km MB = 4.5
	LmV	B	38.8	D = 21.23 Az = 122 (NEIS)
				PV A 1.0s 15.7nm M = 4.4
				LmH B 12.5 1.1/um 4.5
				LmV B 12 0.8/um 4.5
6.	ePKIKP	A	17 12 42	East Papua New Guinea Region
	LmH	B	18 05.6	5.98 S 146.31 E
	LmV	B	10.6	H = 16 53 50.5 h = 36.7 km MB=6.0 MS=5.6
				D = 121.68 Az = 328 (NEIS)
				PKIKPV A traces
				LmH B 22s 1.5/um M = 5.6
				LmV B 18.5 1.0/um 5.5
6.	eP	A	18 24 42.5	Guatemala 14.32 N 90.43 W
				H = 18 11 58.9 h = 5 km MB = 5.0
				D = 86.52 Az = 39 (NEIS)
6.	eP1	AB	18 32 02	Guatemala 14.76 N 90.61 W
	-iP2	AB	32 05.5	H = 18 19 17.9 h = 5.0 km MB=5.7 MS=5.3
	eS	B	42 32	D = 86.28 Az = 39 (NEIS)
	LmH	B	19 13.0	P1V A 2.0s 162.4nm M = 5.9
	LmV	B	13.2	P2V A 1.7 358.0nm 6.3
				P2V B 3 1.1/um 6.6
				LmH B 18 1.6/um 5.5
				LmV B 18 1.4/um 5.4

Day	Phase		h m s	Remarks
7.	eP	A	03 44 05	Caspian Sea 40.35 N 51.12 E
				H = 03 38 08.8 h = 79.7 km MB = 5.1
				D = 29.22 Az = 304 (NEIS)
				PV A 1.1s 32.3nm M = 4.9
7.	ePKIKP	A	07 28 00	Fiji Islands Region 21.20 S 178.85 W
	eiPKHKP	A	28 05.5	H = 07 09 22.9 h = 607.2 km MB = 5.4
	ePKP2	A	28 13	D = 149.48 Az = 347 (NEIS)
				PKIKPV A traces
				PKHKPV A 1.5s 100.5nm
				PKP2V A 1.7 66.6nm
7.	eP	A	10 46 24	Alaska Peninsula 55.33 N 160.28 W
				H = 10 34 54.3 h = 74.6 km MB = 4.7
				D = 74.18 Az = 5 (NEIS)
				PV A 1.1s 12.1nm M = 4.7
7.	ePg	A	20 48 58	Poland 50.0 N 23.0 E
	eSg	A	50 39	H = 20 46 43 (HEL)
				D = 7.3
8.	eP	A	08 26 21	Honduras 15.57 N 88.47 W
	LmH	B	09 01.9	H = 08 13 46.7 h = 5.0 km MB=5.2 MS=5.6
	LmV	B	04.5	D = 84.36 Az = 39 (NEIS)
				PV A 2.1s 47.8nm M = 5.4
				LmH B 18.5 2.4/um 5.6
				LmV B 18 3.5/um 5.8
8.	eP1	A	20 10 34.5	Turkey 36.98 N 27.98 E
	eP2	A	10 40	H = 20 06 18.8 h = 5 km MB = 4.2
				D = 18.00 Az = 325 (NEIS)
				P2V A 1.0s 19.7nm M = 4.2
9.	e(P)	A	07 59 09	Kurile Islands 44.36 N 149.47 E
				H = 07 47 06.5 h = 33 km MB = 4.7
				D = 78.54 Az = 334 (NEIS)

Day	Phase		h m s	Remarks
9.	ePKHKP	A	09 52 59	Fiji Islands Region 19.85 S 177.82 W
				H = 09 34 00.5 h = 397 km MB = 4.7
				D = 148.38 Az = 349 (NEIS)
9.	eP	A	11 57 23	Guatemala 15.32 N 89.07 W
	LmH	C	12 33.0	H = 11 44 46.6 h = 5 km MB=5.2 MS=4.7
	LmV	C	33.0	D = 84.92 Az = 39 (NEIS)
				PV A 2.0s 29.9nm M = 5.2
				LmH C 23 0.7/um 5.0
				LmV C 24 0.7/um 5.0
9.	epP	A	19 10 35	Near East Coast of Kamchatka
				55.18 N 162.66 E
				H = 18 59 04.6 h = 52 km MB=4.7 MS=4.3
				D = 71.81 Az = 341 (NEIS)
9.	eP	A	21 42 53	Off Coast of Central Mexico
	eS	C	53 56	21.59 N 106.61 W
	ePS	C	54 58	H = 21 29 57.1 h = 48.4 km MP=5.5 MS=5.4
	LmH	B	22 29.5	D = 89.90 Az = 34 (NEIS)
	LmV	B	29.5	LmH B 11s 2.1/um M = 5.8
				LmV B 12 2.4/um 5.9
10.	eP	A	01 49 29	Eastern Gulf of Aden 12.65 N 48.02 E
	e	A	49 37	H = 01 40 50.5 h = 33 km MB = 4.6
				D = 48.09 Az = 329 (NEIS)
10.	eP	A	06 30 27	Guatemala 14.83 N 89.80 W
				H = 06 17 42.6 h = 5 km MP=4.9 MS=3.8
				D = 85.74 Az = 39 (NEIS)
				PV A 1.8s 47.3nm M = 5.4
10.	+iP	AB	07 52 32	Kurile Islands 44.47 N 149.29 E
	i	A	52 39.5	H = 07 40 34.4 h = 44 km MB=5.5 MS=5.4
	LmH	B	08 30.9	D = 78.38 Az = 334 (NEIS)
	LmV	B	32.3	PV A 2.0s 282.0nm M = 5.9
				PV B 5 1.5/um 6.2
				LmH B 17.5 2.6/um 5.6
				LmV B 16 2.3/um 5.7

Day	Phase		h m s	Remarks
10.	eP1	A	09 56 20	Dodecanese Islands 36.83 N 27.81 E
	iP2	A	56 27	H = 09 52 06.3 h = 13.9 km MB = 4.7
				D = 18.04 Az = 325 (NEIS)
				P1V A 1.6s 57.7nm M = 4.5
				P2V A 1.2 81.3nm 4.7
10.	eP	A	22 45 47	Kurile Islands Region 43.93 N 149.31 E
	e	A	46 02	H = 22 33 47.3 h = 45 km MB=5.3 MS=4.4
	e	A	46 17	D = 78.88 Az = 334 (NEIS)
	LmH	C	23 19.0	PV A 1.2s 22.4nm M = 5.0
	LmV	C	25.6	LmH C 18 1.6/um 5.4
				LmV C 16 0.6/um 5.1
11.	eP	A	01 43 48	Iran-USSR Border Region 37.72 N 57.25 E
				H = 01 36 57.2 h = 20.1 km MB = 4.3
				D = 34.64 Az = 307 (NEIS)
11.	ePKIKP	A	05 22 06	Solomon Islands 6.43 S 154.96 E
				H = 05 03 09.6 h = 66.8 km MB = 5.6
				D = 126.40 Az = 332 (NEIS)
11.	ePKP	A	15 52 57.5	Fiji Islands Region 18.15 S 177.79 W
				H = 15 34 22.5 h = 612.5 km MB = 5.0
				D = 146.72 Az = 349 (NEIS)
				PKPV A 1.2s 54.9nm
11.	ePKIKP	A	19 24 05	New Britain Region 6.09 S 151.17 E
				H = 19 05 08.6 h = 45.3 km MB = 5.0
				D = 124.27 Az = 330 (NEIS)
				traces
11.	ePKP	A	22 03 29	Samoa Islands Region 15.26 S 172.27 W
	LmH	C	23 00.0	H = 21 43 55.4 h = 33 km MB=5.6 MS=5.9
	LmV	C	15.0	D = 144.56 Az = 356 (NEIS)
				PKPV A 1.6s 120.9nm
				LmH C 24 2.1/um M = 5.8
				LmV C 18 3.1/um 6.1

Day	Phase		h m s	Remarks
11.	eSg	A	23 49 17	France 46.00 N 1.20 W
	e	A	49 20.5	H = 23 43 55.3 h = 5 km (CSEM)
				D = 9.75
12.	eP	A	04 15 14	Kurile Islands 44.62 N 149.62 E
	epP	A	15 28	H = 04 03 17.3 h = 50 km MB = 4.9
				D = 78.36 Az = 334 (NEIS)
				h = 53 km
				PV A 1.3s 32.8nm M = 5.2
12.	ePn	A	05 50 56.5	Czechoslovakia 50.21 N 14.05 E
	e	A	51 02.5	H = 05 50 26.8 h = 0 km (CSEM)
	eSg	A	51 19	D = 1.63
12.	ePKIKP	A	08 00 55	New Britain Region 4.64 S 152.77 E
				H = 07 42 04.7 h = 73.1 km MB = 5.5
				D = 123.79 Az = 331 (NEIS)
				PKIKPV A 1.2s 24.4nm
12.	+iP	AB	14 57 18.2	Southern Nevada 37.27 N 116.49 W
	ePP	A	15 00 23	H = 14 45 00.2 h = 0 km MB=6.3 MS=5.5
	LmH	B	36.3	D = 81.28 Az = 30 (NEIS)
	LmV	B	35.4	Nuclear explosion (USCGS)
				PV A 1.4s 202.3nm M = 6.0
				PV B 3.5 1.1/um 6.3
				PPV A 1.8 158.8nm 5.9
				LmH B 14 1.8/um 5.3
				LmV B 16.5 2.8/um 5.7
12.	e	A	18 17 10.5	Santa Cruz Islands 12.41 S 166.35 E
	LmH	C	19 15.7	H = 17 54 19.4 h = 43 km ME = 5.3 (ISC)
	LmV	C	16.6	D = 136.7
				LmH C 20s 0.8/um M = 5.4
				LmV C 20 0.8/um 5.4
13.	eP	AB	08 20 30	Luzon, Philippine Islands
	eS	C	31 20	15.67 N 121.70 E
	eSP	C	32 28	H = 08 07 32.6 h = 46.6 km MB=5.4 MS=5.5
	eSS	C	37 40	D = 90.21 Az = 323 (NEIS)

Day	Phase		h m s	Remarks
cont. 13.	LmH	B	09 04.7	PV A 1.4s 23.3nm M = 5.3
	LmV	B	04.8	LmH B 17 3.6/um 5.9
				LmV B 19 4.2/um 5.9
13.	eP	AC	10 46 44.5	Mindoro, Philippine Islands
	e	A	46 53	13.92 N 120.12 E
	ePP	C	50 25	H = 10 33 42.7 h = 29 km MB=5.6 MS=5.8
	eSKS	C	57 12	D = 90.68 Az = 323 (NEIS)
	ePS	C	58 33	PV A 1.6s 27.5nm M = 5.3
	eSS	C	11 03 40	LmH B 16.5 8.1/um 6.2
	LmV	B	29.8	LmV B 18 7.2/um 6.2
	LmH	B	32.1	
14.	eiPKIKP	A	03 29 33	Drake Passage 57.41 S 64.42 W
	ePP	A	31 18	H = 03 10 37.3 h = 39.8 km MB=6.0 MS=5.7
	eSS	C	48 30	D = 124.42 Az = 49 (NEIS)
	LmH	C	04 09.8	PKIKPV A 1.4s 93.0nm
	LmV	C	09.8	LmH C 43 2.0/um M = 5.4
				LmV C 45 2.6/um 5.5
14.	ePKP	A	05 58 37.5	Fiji Islands Region 16.94 S 178.98 W
				H = 05 39 53.7 h = 491.5 km MB = 5.0
				D = 145.31 Az = 348 (NEIS)
14.	epP	A	09 18 19.5	Off East Coast of Honshu, Japan
				34.29 N 141.60 E
				H = 09 05 35.1 h = 50 km MB = 4.6
				D = 84.63 Az = 331 (NEIS)
14.	eiP	A	11 02 27	Bonin Islands Region 26.56 N 140.28 E
	ePP	A	06 13.5	H = 10 50 22.2 h = 548 km MB = 5.5
	eSKS	B	12 04	D = 90.76 Az = 330 (NEIS)
	eSP	B	13 40	PV A 1.4s 139.5nm M = 5.8
	eSS	C	18 52	PPV A 1.6 60.4nm 5.5
	LmH	B	45.0	LmH B 14 0.8/um
	LmV	B	51.0	LmV B 14 0.5/um

Day	Phase		h m s	Remarks
14.	ePKIKP	A	11 41 39	South of Fiji Islands 23.19 S 177.42 W
	ePKHKP	A	41 45	H = 11 22 17.4 h = 232 km MB = 5.9
				D = 151.71 Az = 348 (NEIS)
				PKHKPV A 1.8s 202.7nm
14.	LmH	C	18 53.3	Tibet 34.72 N 82.03 E
	LmV	C	53.3	H = 18 19 57.5 h = 33 km MB = 4.6
				D = 52.19 Az = 311 (ISC)
				LmH C 18s 0.45/um M = 4.6
				LmV C 18 0.7/um 4.8
14.	ePP	A	20 49 29	Java 8.08 S 108.61 E
	eSKS	C	55 48	H = 20 31 38.2 h = 53 km MB = 5.9
	eSS	C	21 03 40	D = 100.63 Az = 320 (NEIS)
	LmH	C	25.3	PPV A 1.9s 68.2nm M = 5.9
	LmV	C	25.3	LmH C 38 0.9/um
				LmV C 38 1.2/um
15.	e	A	00 09 27	North Atlantic Ridge 25.46 N 45.38 W
				H = 00 00 28.1 h = 33 km M = 5.0 (NEIS)
				D = 49.9
15.	eP	A	02 04 56.5	Philippine Islands Region
				19.57 N 120.18 E
				H = 01 52 16.3 h = 33 km MB = 5.0
				D = 86.24 Az = 323 (NEIS)
15.	eP	AC	02 07 42	Philippine Islands Region
	ePP	A	11 30	13.00 N 125.79 E
	eSKS	C	18 12	H = 01 54 23.1 h = 33 km MB=6.1 MS=6.1
	eS	C	18 55	D = 94.69 Az = 324 (NEIS)
	ePS	C	20 08	PV A 2.2s 338.1nm M = 6.4
	LmH	B	49.7	LmH B 15 12.2/um 6.5
	LmV	B	56.5	LmV B 16 11.7/um 6.4
15.	ePKHKP	A	21 43 22	Kermadec Islands Region 23.39 S 176.79 W
	ePKP2	A	43 48	H = 21 23 22.6 h = 54.1 km MB=5.5 MS=6.2
	eSS	C	22 07 10	D = 156.87 Az = 346 (NEIS)
	LmH	B	23 01.6	LmH B 18s 2.5/um M = 6.0
	LmV	B	01.6	LmV B 18 3.5/um 6.2

Day	Phase		h m s	Remarks
15.	ePKP2	A	23 12 46	Kermadec Islands Region 29.06 S 176.33 W
				H = 22 52 22.0 h = 33 km MB = 4.7 (NEIS)
				D = 157.6
				traces
15.	eP	A	23 40 56.5	Dodecanese Islands 36.08 N 28.88 E
				H = 23 36 34.9 h = 39.9 km MB = 4.4
				D = 19.15 Az = 325 (NEIS)
				PV A 2.2s 54.5nm M = 4.4
16.	eSg	A	01 10 30.5	Yugoslavia 46.1 N 14.2 E
	e	A	10 35.5	H = 01 07.9 (BCIS)
				D = 4.86 Az = 340
16.	eP	A	09 46 17.5	Taiwan Region 24.02 N 122.64 E
				H = 09 33 48.2 h = 37.7 ME=5.0 MS=4.4
				D = 84.07 Az = 323 (NEIS)
				traces
16.	eP	A	13 38 45.5	North Atlantic Ridge 22.73 N 44.96 W
	LmV	C	57.5	H = 13 29 38.9 h = 33 km MB=5.3 MS=4.5
				D = 51.68 Az = 43 (NEIS)
				PV A 2.1s 105.0nm M = 5.4
16.	eP	A	14 57 06.5	Burma-China Border Region
	LmH	C	15 25.9	22.74 N 100.71 E
	LmV	C	29.3	H = 14 45 42.2 h = 33 km MB=5.0 MS=5.2
				D = 72.20 Az = 318 (NEIS)
				PV A 1.0s 15.8nm M = 5.0
				LmH C 25 2.4/um 5.4
				LmV C 28 1.5/um 5.1
18.	ePKIKP	A	09 44 08	Kermadec Islands 29.75 S 177.21 W
	ePKHKP	A	44 18	H = 09 24 14.6 h = 36.5km MB=5.4 MS=5.5
	eiPKP2	A	44 41.5	D = 158.10 Az = 345 (NEIS)
	e	A	44 48.5	PKP2V A 1.6s 93.4nm
	LmH	B	11 07.7	LmH B 20 1.1/um M = 5.6
	LmV	B	07.9	LmV B 16 0.7/um 5.6

Day	Phase		h m s	Remarks
18.	eP	A	11 44 46.5	Greece 38.64 N 20.28 E H = 11 41 37.9 h = 35.7 km MB = 4.4 D = 13.30 Az = 335 (NEIS) PV A 1.0s 19.7nm M = 4.9
18.	ePKP2	A	14 37 07.5	Kermadec Islands Region 31.10 S 179.8 W H = 14 17 21.0 h = 397 km (ISC) D = 158.7
18.	ePP	A	18 21 07.5	Northern Chile 22.64 S 68.49 W H = 18 03 18.5 h = 77 km MB = 5.4 (ISC) D = 101.1 PPV A 1.9s 37.9nm M = 5.7
18.	eP	A	20 08 37	Iceland Region 61.78 N 27.69 W H = 20 03 20.4 h = 33 km MB = 4.4 D = 24.13 Az = 99 (NEIS) PV A 1.8s 27.0nm M = 4.5
18.	eP	A	21 22 33.5	Iceland Region 61.66 N 26.89 W
	e	A	22 37	H = 21 17 23.4 h = 33 km MB = 4.7
	LmH	B	33.1	D = 23.74 Az = 100 (NEIS)
	LmV	B	33.2	LmH B 14.5s 1.6/um M = 4.4 LmV B 15 1.8/um 4.8
18.	eP	A	22 05 43.5	Iceland Region 61.66 N 26.86 W H = 22 00 34.1 h = 33 km MB = 4.5 D = 23.72 Az = 100 (ISC) PV A 2.2s 98.1nm
19.	eP	A	05 05 51.5	Northern Yukon Territory, Canada
	e	A	06 04.5	66.37 N 135.70 W
	e	A	06 10	H = 04 55 41.9 h = 33 km MB=5.0 MS=4.4 D = 60.68 Az = 23 (NEIS)
19.	ePKP2	A	10 14 30	West of Macquarie Island 60.82 S 154.1 E H = 09 54 16.2 h = 33 km D = 156.89 Az = 261 (ISC)

Day	Phase		h m s	Remarks
19.	LmH	B	10 21.5	Burma-China Border Region
	LmV	B	25.5	22.79 N 100.60 E H = 09 38 32.7 h = 17.1 km MB = 5.1 D = 72.10 Az = 318 (NEIS)
19.	epP	A	10 40 53	Andreanof Islands, Aleutian Is.
	LmH	B	11 33.4	52.50 N 179.52 W
	LmV	B	34.7	H = 10 28 33.5 h = 212.0 km MB = 4.9 (NEIS) D = 76.8 LmH B 20s 1.7/um LmV B 18 1.7/um
19.	eP	A	14 11 35	Cuba Region 19.89 N 76.88 W
	e	A	11 43	H = 13 59 59.8 h = 19.8 km MB=5.3 MS=5.9
	LmH	B	41.0	D = 73.95 Az = 41 (NEIS)
	LmV	B	45.2	PV A 1.6s 44.0nm M = 5.2 LmH B 19 2.8/um 5.6 LmV B 16 2.7/um 5.7
19.	eP	A	18 44 23	Near Coast of Oaxaca, Mexico
				15.94 N 95.08 W H = 18 31 31.1 h = 33 km MB = 5.1 D = 88.02 Az = 38 (NEIS)
19.	ePKP2	A	20 08 27	South of Fiji 23.0 S 179.6 E H = 19 49 35.4 h = 592 km D = 150.83 Az = 344 (ISC)
19.	eP	A	22 13 13.5	Unimak Island Region 53.47 N 164.50 W
	e	A	13 25.5	H = 22 01 27.1 h = 33 km MB = 5.0 D = 76.21 Az = 3 (NEIS) XV A 1.8s 74.3nm
19.	e(P)	A	23 08 47	Guatemala 14.30 N 90.34 W H = 22 56 07.3 h = 61 km MB=4.9 MS=4.0 D = 86.48 Az = 39 (NEIS) traces

Day	Phase		h m s	Remarks
19.	eP	A	23 31 03	Unimak Island Region 53.53 N 164.74 W
	e	A	31 12	H = 23 19 16.2 h = 44.4 km MB = 4.7
				D = 76.15 Az = 2 (NEIS)
				PV A traces
20.	e(P)	A	02 25 31	Kurile Islands 45.3 N 150.4 E
				H = 02 13 38 h = 48 km MB = 4.8
				D = 77.94 Az = 335 (ISC)
20.	eP	A	14 33 32	Off Coast of Chiapas, Mexico
				13.68 N 92.26 W
				H = 14 20 42.2 h = 32.4 km MB=5.5 MS=4.3
				D = 88.12 Az = 38 (NEIS)
21.	eP	A	04 24 18	Eastern Sea of Japan 43.17 N 137.25 E
				H = 04 13 02.7 h = 271 km MB = 4.9
				D = 75.26 Az = 328 (NEIS)
				PV A 0.8s 15.4nm M = 4.8
21.	ePKP	AB	09 04 49	Loyalty Islands Region 22.95 S 171.81 E
	LmH	B	10 10.8	H = 08 45 07.0 h = 48 km MB=5.5 MS=5.6
	LmV	B	13.8	D = 148.34 Az = 336 (NEIS)
				PKPV A 2.3s 171.0nm
				LmH B 24 1.1/um M = 5.5
				LmV B 21.5 1.5/um 5.7
21.	e(sP)	A	11 39 21	Loyalty Islands Region 23.00 S 171.89 E
				H = 11 19 23.2 h = 53 km MB = 5.0
				D = 148.41 Az = 336 (NEIS)
21.	ePKP2	A	14 47 29	West of Macquarie Island 59.82 S 150.16 E
	e	A	47 38	H = 14 27 06.6 h = 33 km MB = 4.9 (NEIS)
	e	A	47 45.5	D = 155.0
	LmV	B	16 04.3	LmH B 19s 1.3/um M = 5.7
	LmH	B	13.5	LmV B 20 1.5/um 5.8
22.	eP	A	01 24 36	Near East Coast of Honshu, Japan
				36.47 N 140.48 E
				H = 01 12 24.3 h = 97.8 km MB = 4.9
				D = 82.28 Az = 330 (NEIS)

Day	Phase		h m s	Remarks
22.	eP	A	06 10 20	Fox Islands, Aleutian Is.
	epP	A	10 32	52.24 N 169.51 W
	LmH	B	24.0	H = 05 58 27.7 h = 44 km MB=5.3 MS=5.0
	LmV	B	24.0	D = 77.48 Az = 359 (NEIS)
				h = 44 km
				PV A 1.2s 44.7nm M = 5.4
				LmH B 20 1.1/um 5.2
				LmV B 16 1.3/um 5.4
22.	eP	A	07 22 23.5	South Atlantic Ocean 10.84 S 12.21 E
	e	A	22 31	H = 07 12 10.2 h = 33 km MB = 4.8
				D = 61.23 Az = 360 (NEIS)
22.	+iP	AB	08 00 21	Northern Sumatra 3.17 N 99.02 E
	eSKS	C	10 36	H = 07 47 59.5 h = 180.3 km MB = 5.6
	ePS	C	11 52	D = 85.92 Az = 320 (NEIS)
	LmH	C	34.4	PV A 1.3s 162.0nm M = 5.7
	LmV	C	34.5	LmH C 32 1.0/um
				LmV C 28 0.8/um
22.	eP	A	12 06 04	Greece 39.50 N 22.15 E
	eX	A	06 13.5	H = 12 02 54.8 h = 33 km MB = 5.1
	LmH	B	10.7	D = 13.38 Az = 330 (NEIS)
	LmV	B	12.8	XV A 1.4s 55.8nm
				LmH B 11.5 12.9/um M = 5.2
				LmV B 13 11.7/um
22.	-iPn	A	16 17 00.3	Yugoslavia 44.15 N 15.72 E
	eSn	A	18 18.5	H = 16 15 17.0 h = 33 km MB = 5.2
	e	A	19 01	D = 7.7 Az = 338 (NEIS)
	eSg	A	19 10	PV A 0.7s 165.0nm M = 6.1
	LmH	B	19.2	LmH B 6 1.9/um 4.2
	LmV	B	19.8	LmV B 5 1.1/um
22.	ePKIKP	A	18 47 55	Solomon Islands 6.31 S 154.78 E
	e	A	49 23	H = 18 28 58.3 h = 56 km MB = 5.9
	ePP	A	49 52	D = 126.21 Az = 332 (NEIS)
	LmH	C	19 34.7	PKIKPV A 1.1s 20.2nm

Day	Phase		h m s	Remarks
cont.				
22.	LmV	C	19 41.8	PPV A 1.6s 22.0nm M = 5.1
				LmH C 21 1.5/um
				LmV C 24 1.2/um
22.	ePn	A	20 03 35	Poland 50.25 N 19.63 E
	eSn	A	04 39	H = 20 02 13.2 h = 33 km
				D = 5.14 Az = 278 (NEIS)
22.	eP	A	22 04 59.5	Greece 39.40 N 22.12 E
	e	A	05 04	H = 22 01 46.3 h = 17.1 km MB = 4.8
	LmH	C	10.7	D = 13.45 Az = 330 (NEIS)
	LmV	C	10.7	LmH C 10s 1.0/um M = 4.2
				LmV C 9 1.7/um
22.	eP	A	22 57 46.5	Greece 39.40 N 22.14 E
	e	A	59 49.5	H = 22 54 35.5 h = 33 km MB = 4.9
	LmH	C	23 03.5	D = 13.47 Az = 330 (NEIS)
	LmV	C	03.5	LmH C 9s 0.9/um M = 4.1
				LmV C 10.5 1.5/um
22.	ePKP2	A	23 55 00	Kermadec Islands Region
	e	A	55 08	28.47 S 176.12 W
				H = 23 34 34.4 h = 41 MB = 4.4 (NEIS)
				D = 157.0
23.	eP	A	03 20 55	Fox Islands, Aleutian Is.
				52.05 N 169.48 W
				H = 03 08 59.7 h = 26.4 km MB = 5.0
				D = 77.68 Az = 359 (NEIS)
				PV A 1.1s 12.1nm M = 4.9
23.	+eP	A	07 56 04.5	Central Mid-Atlantic Ridge
				7.97 N 38.01 W
				H = 07 46 06.5 h = 33 km MB = 4.9
				D = 59.03 Az = 34 (NEIS)
				PV A 1.6s 22.0nm M = 5.0

Day	Phase		h m s	Remarks
23.	eP1	A	09 15 02	Taiwan 23.02 N 121.69 E
	eP2	A	15 06	H = 09 02 31.6 h = 33 km MB=5.5 MS=5.8
	eP3	A	15 10	D = 84.35 Az = 323 (NEIS)
	eS	C	25 32	P1V A traces
	eSS	C	30 40	P2V A 1.6s 65.9nm M = 5.6
	LmH	B	50.5	P3V A 1.4 74.4nm 5.7
	LmV	B	57.8	LmH B 16.5 19.8/um 6.6
				LmV B 16 21.3/um 6.6
23.	eP	A	15 25 49	Queen Charlotte Islands Region
	eS	C	35 20	51.47 N 130.44 W
	eSS	C	40 00	H = 15 14 16.0 h = 16 km MB=5.6 MS=6.0
	LmV	B	59.7	D = 73.28 Az = 24 (NEIS)
	LmH	B	16 03.2	PV A 2.2s 141.8nm M = 5.7
				LmH B 17.5 3.4/um 6.2
				LmV B 18 6.2/um 6.0
23.	eP1	A	16 22 18	Aegean Sea 38.30 N 25.60 E
	eP2	A	22 22	H = 16 18 31.1 h = 33 km MB = 4.7
	LmH	B	27.6	D = 15.84 Az = 326 (NEIS)
	LmV	B	28.9	P2V A 1.3s 39.3nm M = 4.4
				LmH B 14 2.5/um 4.7
				LmV B 9 2.0/um 4.8
23.	ePKIKP	A	18 25 37	East Papua New Guinea Region
	e	A	26 24	7.12 S 146.07 E
	e	A	27 16	H = 18 07 02.3 h = 180.5 km MB = 5.4
				D = 122.51 Az = 327 (NEIS)
23.	e(P)	A	22 10 30	Cuba Region 19.82 N 77.20 W
				H = 21 58.50.8 h = 33 km ME = 4.9
				D = 74.20 Az = 41 (NEIS)
24.	ePKHKP	A	00 26 31	Fiji Region 21.01 S 178.68 W
				H = 00 07 53.7 h = 619 km
				D = 149.33 Az = 347 (ISC)
				PKHKPV A 1.2s 16.3nm

Day	Phase		h m s	Remarks
24.	LmH	C	05 11.0	Molucca Passage 0.47 N 126.09 E
	LmV	C	21.0	H = 04 17 41.6 h = 56 km MB = 5.3 (ISC)
				D = 104.9
				LmH C 38s 1.0/um
				LmV C 22 0.5/um
24.	eP	A	06 38 12.5	Guatemala 14.22 N 90.42 W
				H = 06 25 27.3 h = 5 km MB = 4.4
				D = 86.59 Az = 39 (NEIS)
24.	eP	A	17 49 09	Honshu, Japan 37.24 N 140.92 E
				H = 17 37 00.5 h = 103 km MB = 4.9
				D = 81.79 Az = 330 (NEIS)
				PV A 1.2s 16.3nm M = 4.7
24.	+iPKP	A	18 00 16.5	Loyalty Islands 20.25 S 168.86 E
	e	A	00 28	H = 17 40 43.1 h = 35.8 km MB = 5.1
	e	A	00 37.5	D = 144.74 Az = 335 (NEIS)
24.	ePKP	A	18 55 35	Loyalty Islands 20.17 S 168.79 E
				H = 18 36 01.5 h = 42 km
				D = 144.64 Az = 335 (ISC)
				PKPV A 1.1s 20.2nm
25.	eP	A	16 41 40	Costa Rica 10.43 N 85.14 W
	e(sP)	A	42 04.5	H = 16 29 00.5 h = 66 km MB = 5.2
	LmH	C	17 06.1	D = 86.27 Az = 39 (NEIS)
	LmV	C	10.3	sPV A 1.2s 24.4nm
				LmH C 42 6.5/um
				LmV C 48 3.5/um
26.	eP	A	11 27 17.5	Hindu Kush Region 36.49 N 70.87 E
				H = 11 19 26.5 h = 191.5 km MB = 4.8
				D = 44.03 Az = 308 (NEIS)
				PV A 0.7s 19.2nm M = 4.8
26.	eP	A	15 19 12	Off East Coast of Honshu, Japan
	ePP	A	22 28	34.49 N 141.45 E
	LmH	C	55.8	H = 15 06 43.2 h = 49 km MB=5.2 MS=4.7

Day	Phase		h m s	Remarks
cont. 26.	LmV	C	15 57.5	D = 84.39 Az = 331 (NEIS)
				PV A 1.6s 27.5nm M = 5.1
				LmH C 17 2.1/um 5.6
26.	ePKP	A	19 17 26	Fiji Region 18.1 S 177.6 W
				H = 18 58 42 h = 474 km
				D = 146.69 Az = 349 (ISC)
26.	eP	A	19 36 34	Aegean Sea 38.38 N 26.59 E
				H = 19 32 38.5 h = 10 km MB = 4.5
				D = 16.22 Az = 324 (NEIS)
				PV A 1.2s 20.3nm M = 4.1
26.	+ePKHKP	A	23 08 34	New Hebrides Islands 20.56 S 169.01 E
				H = 22 48 56.0 h = 79 km (NEIS)
				D = 149.8
				PKHKPV A 1.4s 34.9nm
27.	e(PP)	A	03 53 43	Northern Chile 19.71 S 69.12 W
	e	A	53 46.5	H = 03 36 10.9 h = 87 km MB = 5.5 (ISC)
	e	A	53 54	D = 99.2
				(PP)V A 1.5s 30.2nm M = 5.7
27.	iPn	A	10 00 01.5	Northern Italy 45.75 N 12.94 E
	iPg	A	00 24.0	H = 09 58 47.9 h = 33 km MB = 5.2
	eiSn	A	00 56.5	D = 4.98 Az = 350 (NEIS)
	eiSg	A	01 26.5	
27.	ePKP	A	12 46 26.5	Loyalty Islands 20.51 S 168.81 E
	epPKP	A	46 35	H = 12 26 48.8 h = 17.4 km
				D = 144.96 Az = 335 (NEIS)
				PKPV A 1.0s 13.8nm
				pPKPV A 1.5 22.6nm
27.	ePKP	A	14 42 50.5	New Hebrides Islands 18.42 S 169.32 E
				H = 14 23 44.8 h = 222 km
				D = 143.27 Az = 336 (NEIS)
				PKPV A traces

Day	Phase		h m s	Remarks
27.	LmH	B	21 35.0	South Pacific Cordillera 62.16 S 160.6 W
	LmV	B	37.0	H = 19 57 41 h = 15 km (ISC)
				D = 167.8
				LmH B 20s 1.1/um M = 5.6
				LmV B 18 1.7/um 5.9
28.	ePKP2	A	04 44 37.5	Kermadec Islands 30.04 S 177.32 W
				H = 04 24 07.5 h = 21 km MB = 4.8 (NEIS)
				D = 158.1
				PKPV A 1.4s 14.0nm
28.	ePKIKP	A	16 45 56.5	Off Coast of Southern Chile
	e(S diff)	C	55 08	40.00 S 74.73 W
	eSP	C	57 00	H = 16 27 09.0 h = 9.1 km MB=6.0 MS=5.5
	LmH	B	17 31.9	D = 117.55 Az = 46 (NEIS)
	LmV	B	35.3	PKIKPV A 1.5s 25.1nm
				LmH B 20 1.5/um M = 5.6
				LmV B 18 1.5/um 5.7
28.	e	A	21 11 45	Samoa Islands Region 16.36 S 172.40 W
				H = 20 51 50.3 h = 33 km MB = 4.7
				D = 145.64 Az = 355 (NEIS)
29.	ePn	A	03 41 09	Switzerland 47.92 N 8.61 E
	ePg	A	41 21	H = 03 40 18.0 h = 34.7 km
	eSn	A	41 47.5	D = 3.36 Az = 35 (NEIS)
	eiSg	A	42 02.5	
29.	eP	A	09 39 32	Near East Coast of Honshu, Japan
				36.75 N 140.77 E
				H = 09 27 15.6 h = 57.2 km MB = 4.7
				D = 82.16 Az = 330 (NEIS)
				PV A 1.1s 12.1nm M = 4.8
29.	ePKP	A	19 53 00	Tonga 15.35 S 173.33 W
				H = 19 33 25 h = 17 km MB = 5.1
				D = 144.56 Az = 355 (ISC)

Day	Phase		h m s	Remarks
29.	eP	A	20 37 43	Albania 40.88 N 19.63 E
				H = 20 34 59.0 h = 10 km MB = 3.5
				D = 11.25 Az = 333 (NEIS)
29.	ePKP2	A	23 10 38	Kermadec Islands Region 28.21 S 177.31 W
				H = 22 50 21.8 h = 64 km MB = 5.3
				D = 156.59 Az = 346 (NEIS)
				PKP2V A 1.2s 16.3nm

Day	Phase		h m s	Remarks
1.	LmV	C	09 25.3	LmV C 20s 1.0/um
	LmH	C	26.0	
2.	ePn	A	08 28 48	Svabian Yura Region, Fed. Rep. of Germany
	ePg	A	28 57	47.79 N 8.99 E
	e	A	29 03.5	H = 08 28 00.2 h = 5 km
	e(Sn)	A	29 19.5	D = 3.33 Az = 30 (NEIS)
	eSg	A	29 42	
2.	ePKIKP	A	11 10 05.5	Solomon Islands 6.28 S 154.80 E
	LmV	C	11 58.0	H = 10 51 09.6 h = 61.1 km MB = 5.7
	LmH	C	58.5	D = 126.19 Az = 332 (NEIS)
				PKIKPV A 1.0s 19.7nm
				LmH C 30 0.3/um
				LmV C 30 0.3/um
2.	eP	A	12 42 07	Turkey 37.23 N 30.81 E
				H = 12 37 47.0 h = 10 km (CSEM)
				D = 19.18
2.	LmH	C	13 02.5	Tadzhikistan-Sinkiang Border 39.36 N 73.47 E
				H = 12 35 53.3 h = 53 km MB = 4.7
				D = 43.95 Az = 306 (ISC)
				LmH C 20s 0.45/um
2.	ePKP2	A	16 07 05.5	South of Kermadec Islands
	LmH	C	17 19.5	32.56 S 177.9 W
	LmV	C	20.0	H = 15 46 26.5 h = 33 km MB = 4.8
				D = 160.60 Az = 341 (ISC)
				PKP2V A 1.5s 32.7nm
				LmH C 19 0.25/um M = 5.0
				LmV C 19 0.3/um 5.1
2.	ePn	A	19 44 18.5	Albania 40.70 N 19.63 E
	eSg	A	47 57	H = 19 41 37.1 h = 10 km (CSEM)
	LmH	B	49.1	D = 11.45
	LmV	B	49.8	PV A 0.9s 27.2nm M = 5.5
				LmH B 15 3.3/um 4.4
				LmV B 9 3.6/um

Day	Phase		h m s	Remarks
3.	LmH	C	01 18.0	South-east of Shikoku 31.73 N 132.63 E
	LmV	C	26.4	H = 00 32 34.5 h = 38 km MB = 4.6
				D = 82.8
				LmH C 25s 0.45/um M = 4.7
				LmV C 15 0.35/um 4.9
3.	ePKHKP	A	19 44 26.5	Fiji Region 21.2 S 178.2 W
				H = 19 25 39 h = 572 km MB = 4.5
				D = 149.59 Az = 348 (ISC)
3.	ePP	A	23 09 00	Flores Island Region 8.23 S 121.44 E
	e	A	09 22	H = 22 50 10.0 h = 30.2 km MB=6.0 MS=5.0
	e(PKKP)	A	19 47	D = 108.87 Az = 321 (NEIS)
	LmH	B	24 01.7	LmH B 18s 0.7/um M = 5.3
	LmV	B	07.0	LmV B 18 0.7/um 5.3
4.	ePKP	A	02 11 26	New Hebrides Islands 19.37 S 169.18 E
				H = 01 52 05.9 h = 124.5 km MB = 4.9
				D = 144.08 Az = 336 (NEIS)
				PKPV A 1.2s 24.4nm
4.	ePKIKP	C	03 09 08	New Hebrides Islands 14.74 S 167.10 E
	ePKIKP	A	09 10	H = 02 50 00.5 h = 90.1 km MB = 6.4
	eX	A	09 18.5	D = 139.07 Az = 336 (NEIS)
	eiSKP	B	12 36	PKIKPV A 0.9s 46.7nm
	eiSKP	A	12 56	XV A 1.5 211.0nm
	eSPP	C	24 24	SKPV A 2.4 1215.5nm
	e	C	26 00	SKPV B 13 10.6/um
	LmH	B	04 01.3	LmH B 23 10.5/um
	LmV	B	03.5	LmV B 24 10.2/um
4.	eP	A	05 04 36	Kyushu, Japan 32.39 N 131.16 E
				H = 04 52 28.2 h = 106 km MB = 4.8
				D = 81.63 Az = 326 (NEIS)
4.	eP	A	10 34 51	Jan Mayen Island Region 71.08 N 6.49 W
	LmH	B	44.3	H = 10 29 57.1 h = 33 km MB = 4.4
	LmV	B	46.3	D = 22.13 Az = 148 .(NEIS)
				PV A 2.2s 54.5nm M = 4.6

Day	Phase		h m s	Remarks
cont. 4.				LmH B 15 0.7/um M = 4.2 LmV B 13 0.9/um 4.5
4.	ePn	A	11 15 16	Czechoslovakia 50.40 N 15.6 E
	iSg	A	15 57	H = 11 14 28 h = 0 km
				D = 2.55 Az = 277 (ISC)
5.	ePKP	A	00 29 04	Fiji Islands Region 16.24 S 176.24 W
				H = 00 10 04.5 h = 323.9 km MB = 4.9
				D = 145.10 Az = 351 (NEIS)
				PKPV A 1.2s 28.4nm
5.	ePKP2	A	06 25 11	South of Kermadec Islands
				32.35 S 177.9 W
				H = 06 04 25 h = 33 km MB = 4.6
				D = 160.40 Az = 342 (ISC)
5.	ePn	A	12 48 50	Central Italy 43.65 N 12.39 E
	ePg	A	49 27	H = 12 47 06.6 h = 33 km MB = 5.3
				D = 7.02 Az = 356 (NEIS)
5.	ePKIKP	A	18 46 47	South of Fiji Islands 25.53 S 179.56 E
				H = 18 27 58.8 h = 559.1 km MB = 4.7
				D = 153.26 Az = 343 (NEIS)
				PKIKPV A traces
6.	ePn	A	07 12 39	Federal Republic of Germany
	ePg	A	12 46	48.2 N 8.9 E
	eSn	A	13 16	H = 07 11 55 h = 10 km
	eSg	A	13 25.5	D = 3.00 Az = 35 (ISC)
6.	e	A	09 11(54)	Hungary (VIE)
6.	ePP	A	11 25 22.5	Northern Celebes 0.84 N 122.60 E
	LmV	C	12 11.7	H = 11 07 14.3 h = 51 km MB = 5.5 (NEIS)
				D = 102.5

Day	Phase		h m s	Remarks
6.	eP	A	12 33 00	Alaska Peninsula 58.24 N 157.10 W
				H = 12 21 56.9 h = 154.6 km MB = 4.5
				D = 71.08 Az = 8 (NEIS)
6.	ePKIKP	A	15 25 36	Solomon Islands 7.27 S 155.44 E
	epPKIKP	A	25 44.5	H = 15 06 34.4 h = 45.3 km MB=5.8 MS=5.2
	LmH	B	16 24.6	D = 127.35 Az = 332 (NEIS)
	LmV	B	27.4	h = 30 km
				PKIKPV A 1.5s 32.7nm
				LmH B 18 0.7/um M = 5.4
				LmV B 18 0.7/um 5.4
6.	eP	A	16 40 07	Eastern Mediterranean Sea
				33.12 N 26.46 E
				H = 16 35 37.5 h = 123 km (CSEM)
				D = 20.65
6.	eP	A	17 06 58	Near S. Coast of Honshu, Japan
				34.47 N 137.35 E
				H = 16 55 07.5 h = 314.4 km MB = 4.7
				D = 82.69 Az = 329 (NEIS)
				traces
6.	eP	A	20 31 50.5	Iceland Region 66.50 N 17.91 W
	eS	C	35 54	H = 20 26 56.0 h = 5 km MB = 4.7 (NEIS)
	LmH	B	41.6	D = 21.8
	LmV	B	42.9	PV A 2.0s 77.0nm M = 4.8
				LmH B 13 1.7/um 4.7
				LmV B 16 1.3/um 4.6
7.	eP	A	03 06 52	Guatemala 14.73 N 91.02 W
				H = 02 54 04.2 h = 5 km MB=5.1 MS=4.7
				D = 86.55 Az = 38 (NEIS)
				PV A 1.6s 49.5nm M = 5.5
7.	eP	A	03 28 26.5	Guatemala 14.81 N 90.89 W
	LmH	C	04 10.7	H = 03 15 41.2 h = 5 km MB=5.1 MS=5.0
	LmV	C	10.8	D = 86.42 Az = 39 (NEIS)

Day	Phase		h m s	Remarks
cont. 7.				PV A 1.5s 35.2nm M = 5.3 LmH C 19 1.2/um 5.3 LmV C 20 1.0/um 5.2
7.	ePKP2	A	08 43 26	Fiji Region 20.20 S 178.17 W H = 08 24 42.5 h = 602 km D = 148.65 Az = 348 (ISC)
7.	eP	A	09 55 27	Off Coast of Oregon 44.43 N 130.00 W
	LmV	B	10 32.8	H = 09 43 20.4 h = 33 km MB=5.2 MS=4.5
	LmH	B	32.9	D = 79.60 Az = 24 (NEIS) PV A 2.0s 59.9nm M = 5.3 LmH B 16 0.7/um 5.1 LmV B 16 1.1/um 5.3
7.	ePb	A	18 11 27	Northern Italy 44.61 N 9.62 E
	eSg	A	12 54	H = 18 09 31.7 h = 33 km MB = 4.7 D = 6.19 Az = 12 (NEIS)
8.	eSb	A	00 53 47	Southern Italy 40.97 N 15.29 E H = 00 48 43.6 h = 10 km (CSEM) D = 10.06
8.	eP	A	02 40 41.5	Andreanof Islands, Aleutian Is.
	LmH	C	03 20.5	51.34 N 178.04 W
	LmV	C	21.3	H = 02 28 47.7 h = 54.1 km ME=4.7 MS=4.1 D = 78.06 Az = 354 (NEIS) PV A 1.4s 27.9nm M = 5.1
8.	ePKIKP	A	04 59 11	Santa Cruz Islands 10.73 S 165.02 E
	ePP	AB	05 01 40	H = 04 39 55.9 h = 47 km ME=6.1 MS=5.9
	eSPP	C	13 40	D = 134.60 Az = 336 (NEIS)
	eSS	C	19 30	PKIKPV A 2.9s 236.0nm
	LmH	B	06 02.8	PPV A 1.9 83.3nm M = 5.5
	LmV	B	04.9	PPV B 12 1.3/um 5.9 LmH B 19.5 2.9/um 6.0 LmV B 19 2.6/um 6.0

Day	Phase		h m s	Remarks
8.	ePKP2	A	17 08(45)	Kermadec Islands Region
	e	A	09 00	28.26 S 176.61 W H = 16 48 38.6 h = 37.7 km MB = 5.2 D = 156.79 Az = 347 (NEIS)
8.	LmH	C	18 33.0	South-east Indian Ridge
	LmV	C	33.7	44.99 S 95.42 E H = 17 36 40 h = 31 km MB = 5.0 (ISC) D = 119.6 LmH C 18s 0.25/um M = 4.9 LmV C 17 0.4/um 5.1
8.	ePKP2	A	19 12 36.5	Kermadec Islands 29.15 S 176.96 W
	e	A	12 53	H = 18 52 13.3 h = 33 km MB = 4.9 D = 157.57 Az = 346 (NEIS)
8.	ePKIKP	AB	20 25 50	Santa Cruz Islands 11.85 S 166.39 E
	ePP	AB	28 28	H = 20 06 33.3 h = 72.2 km MB = 5.6
	ePKS	B	29 30	D = 136.15 Az = 337 (NEIS)
	eSS	C	46 55	LmH B 22.5s 3.1/um M = 6.0
	LmH	B	21 27.5	LmV B 22 4.0/um 6.1
	LmV	B	30.6	
8.	ePKP	A	22 25 22	Fiji Islands Region 18.38 S 176.03 E H = 22 05 46.4 h = 33 km MB = 4.8 D = 145.49 Az = 342 (NEIS) PKPV A 1.6s 52.2nm
9.	eP	A	07 55 22	Guatemala 14.87 N 90.94 W
	LmH	C	08 36.0	H = 07 42 37.3 h = 5 km MB=5.2 MS=4.3
	LmV	C	36.0	D = 86.40 Az = 39 (NEIS) PV A 1.6s 55.0nm M = 5.5
9.	eiPKP2	A	10 36 27	Kermadec Islands 29.38 S 177.29 W
	ePP	C	40 05	H = 10 16 05.8 h = 72 km MB = 5.1 (NEIS)
	LmH	B	11 44.9	D = 157.6
	LmV	B	58.5	PKP2V A 1.2s 36.6nm LmH B 16 0.5/um LmV B 16 0.9/um

Day	Phase		h m s	Remarks
9.	+eP	A	14 12 18	Southern Nevada 37.31 N 116.36 W
	ePP	A	15 22	H = 14 00 00.1 h = 0 km MB=6.0 MS=4.8
	LmV	B	51.0	D = 81.20 Az = 31 (NEIS)
	LmH	B	51.4	Nuclear explosion (USAEC)
				PV A 1.5s 110.8nm M = 5.7
				PPV A 1.6 49.5nm 5.5
				LmH B 14 0.5/um 5.0
				LmV B 14 0.7/um 5.2
10.	-iPKHKP	A	03 33 43	Fiji Islands Region 21.16 S 178.81 W
	ePKP2	A	33 50	H = 03 14 58.0 h = 580 km MB = 5.1
				D = 149.45 Az = 347 (NEIS)
10.	eP	A	03 53 18	Greece 38.88 N 21.33 E
				H = 03 50 03.4 h = 30.1 km MB = 3.9
				D = 13.62 Az = 333 (NEIS)
10.	eP	A	06 41 57	Andreanof Islands, Aleutian Is.
				51.14 N 179.10 W
				H = 06 30 01.5 h = 58.3 km MB = 4.8
				D = 78.18 Az = 353 (NEIS)
				PV A 1.2s 24.4nm M = 5.1
10.	+eP	AB	09 15 42.5	Leeward Islands 16.76 N 61.13 W
	epP	A	15 58	H = 09 05 01.1 h = 77 km MB = 5.9
	eS	B	24 28	D = 66.30 Az = 42 (NEIS)
	LmH	E	38.7	h = 66 km
	LmV	E	39.4	PV A 1.6s 55.0nm M = 5.2
	eP'P'	A	44 22	LmH B 22 5.7/um
				LmV B 19 5.9/um
				P'P'V A 2.0 98.3nm
10.	ePKP2	A	09 51 52	Kermadec Islands 30.44 S 177.6 W
				H = 09 31 12 h = 37 km
				D = 158.67 Az = 344 (ISC)
10.	eP	A	20 54 21	Southern Sumatra 3.62 S 101.93 E
	epP	A	54 45.5	H = 20 41 15.3 h = 84.3 km MB = 5.3
				D = 92.97 Az = 320 (NEIS)
				h = 95 km

Day	Phase		h m s	Remarks
11.	eP	A	18 27 24	Ryukyu Islands 27.41 N 130.13 E
	LmH	B	19 10.5	H = 18 14 44.5 h = 36 km MB = 5.2 (NEIS)
	LmV	B	10.5	D = 85.2
				LmH B 14s 1.1/um M = 5.4
				LmV B 14 1.1/um 5.4
11.	ePKP	A	18 51 54	Samoa Islands Region 16.44 S 172.12 W
				H = 18 32 16.6 h = 33 km MB = 4.2
				D = 145.74 Az = 356 (NEIS)
11.	e(P)	A	18 59 57	Northwestern Kashmir 36.77 N 74.28 E
	eX	A	19 01 46	H = 18 51 33.3 h = 53.8 km MB = 4.9
				D = 46.02 Az = 308 (NEIS)
				XV A 1.1s 12.1nm
11.	epP	A	20 52 42.5	Northern Colombia 6.34 N 76.01 W
				H = 20 40 06.1 h = 73.7 km MB = 5.1
				D = 83.64 Az = 40 (NEIS)
12.	eP	A	16 08 14.5	Gabon 0.49 S 12.62 E
				H = 15 59 13.6 h = 33 km MB = 5.2
				D = 50.95 Az = 359 (NEIS)
12.	ePP	A	17 11 56	Mariana Islands Region 17.24 N 147.09 E
	LmH	C	54.3	H = 16 53 47.3 h = 48 km MB = 5.0 (NEIS)
	LmV	C	18 06.5	D = 102.2
				LmH C 14s 1.1/um M = 5.5
				LmV C 18 0.8/um 5.3
12.	ePKP	A	19 01 05	Tonga Islands Region 17.02 S 171.97 W
				H = 18 41 26.2 h = 33 km MB = 4.9
				D = 146.33 Az = 356 (NEIS)
				PKPV A 1.2s 24.4nm
13.	ePKIKP	A	05 41 43	Solomon Islands 6.26 S 154.72 E
	eX	A	41 58	H = 05 22 44.0 h = 50 km MB=5.5 MS=6.1
	LmH	B	06 39.6	D = 126.13 Az = 332 (NEIS)
	LmV	B	41.1	XV A 1.2s 24.4nm
				LmH B 18 1.9/um M = 5.8
				LmV B 18.5 2.7/um 6.0

Day	Phase		h m s	Remarks
13.	eP	A	16 43 24	Guatemala 14.77 N 91.06 W
	LmH	B	17 24.6	H = 16 30 41.5 h = 5 km
	LmV	B	24.6	MB = 5.4 MS = 5.1 (NEIS)
				D = 86.5
				PV A 1.5s 100.5nm M = 5.8
				LmH B 19 2.2/um 5.6
				LmV B 18 2.3/um 5.7
13.	eP	A	21 56 42	Northern Colombia 6.81 N 72.97 W
				H = 21 44 41.3 h = 165.1 km MB = 5.4
				D = 81.34 Az = 40 (NEIS)
14.	eP	A	06 56 48.5	Andreanof Islands, Aleutian Is.
				53.04 N 174.90 W
				H = 06 45 21.4 h = 221.9 km MB = 4.6
				D = 76.54 Az = 356 (NEIS)
14.	+iP	AB	12 42 18.0	Southern Nevada 37.31 N 116.47 W
	ePP	AB	45 22.5	H = 12 30 00.2 h = 0 km MB=6.3 MS=5.3
	LmH	B	13 20.4	D = 81.24 Az = 30 (NEIS)
	LmV	B	20.4	Nuclear explosion (USAEC)
				PV A 1.4s 204.2nm M = 6.0
				PPV A 1.7 181.8nm 6.0
				LmH B 16.5 2.5/um 5.7
				LmV B 16 3.4/um 5.8
14.	ePKP	A	16 03 08	Fiji Islands Region 17.22 S 177.67 W
				H = 15 44 23.7 h = 506 km MB = 4.8
				D = 145.83 Az = 349 (NEIS)
				PKPV A 1.0s 23.6nm
14.	eP	A	20 34 45	Kurile Islands 45.26 N 148.72 E
				H = 20 23 04.5 h = 146 km MB = 4.9
				D = 77.50 Az = 334 (NEIS)
				PV A 1.0s 19.7nm M = 4.8

Day	Phase		h m s	Remarks
16.	eP	A	06 27 23.5	Kirgiz-Sinkiang Border Region
				40.44 N 77.80 E
				H = 06 19 02.7 h = 33 km MB = 5.2
				D = 46.01 Az = 306 (NEIS)
16.	eP	A	07 36 32	Southern Iran 27.31 N 55.06 E
	LmH	B	53.8	H = 07 28 57.6 h = 33 km MB=5.4 MS=5.2
	LmV	B	55.5	D = 40.25 Az = 317 (NEIS)
				PV A 1.7s 109.0nm M = 5.3
				LmH B 21 2.8/um 5.1
				LmV B 18 2.5/um 5.2
16.	eP	A	21 28 18	South of Honshu, Japan 32.20 N 141.78 E
				H = 21 15 36.6 h = 31.8 km MB = 4.9
				D = 86.51 Az = 331 (NEIS)
16.	ePKP2	A	22 39 24.5	Kermadec Islands 29.68 S 177.53 W
				H = 22 19 02.3 h = 42 km
				D = 157.95 Az = 344 (NEIS)
17.	+iP	A	14 27 18.0	Southern Nevada 37.26 N 116.31 W
	ePP	A	30 22.5	H = 14 15 00.1 h = 0 km MB=6.1 MS=4.5
	LmH	C	15 06.0	D = 81.22 Az = 31 (NEIS)
	LmV	C	06.0	Nuclear explosion (USAEC)
				PV A 1.4s 130.0nm M = 5.8
				PPV A 1.6 71.4nm 5.4
17.	+iP	A	14 57 18.0	Southern Nevada 37.11 N 116.05 W
				H = 14 45 00.1 h = 0 km MB=5.8 MS=4.2
				D = 81.25 Az = 31 (NEIS)
				Nuclear explosion (USAEC)
				PV A 1.4s 102.0nm M = 5.7
17.	ePKP2	A	22 04 16	South of Fiji Islands 24.53 S 178.43 E
	epPKP2	A	06 24	H = 21 45 13.7 h = 594 km MB = 5.0 (NEIS)
				D = 152.7 h = 562 km

Day	Phase		h m s	Remarks
18.	ePKIKP	A	20 04 16	South of Fiji Islands 24.65 S 179.93 E
	ePKHKP	A	04 24	H = 19 45 20.2 h = 454.8 km MB = 5.0
	ePKP2	A	04 36	D = 152.51 Az = 344 (NEIS)
	epPKP	A	06 25	PKHKPV A 1.2s 24.4nm
	e	A	06 35	PKP2V A 1.2 24.4nm
19.	ePKP2	A	02 38 43	Kermadec Islands 30.01 S 177.13 W
	epPKP2	A	38 55.5	H = 02 18 15 h = 42 km MB = 5.0 (NEIS)
				D = 158.3 h = 43 km
19.	ePKHKP	A	10 00 18	Tonga Islands 19.90 S 175.84 W
	epPKP	A	01 14.5	H = 09 40 53.7 h = 192.7 km MB = 5.2
				D = 148.75 Az = 351 (NEIS)
19.	eP	AB	13 11 28.5	Hindu Kush Region 36.61 N 67.79 E
	ePP	AB	13 08.5	H = 13 03 38.4 h = 33 km MB=5.6 MS=5.5
	LmH	B	31.6	D = 42.01 Az = 308 (NEIS)
	LmV	B	32.5	PV A 2.0s 197.0nm M = 5.5
				LmH B 12 3.6/um 5.5
				LmV B 12 3.3/um 5.5
20.	eP	AB	01 19 23	Taiwan 24.28 N 121.80 E
	eS	B	29 43	H = 01 06 58.7 h = 39.7 km MB=5.5 MS=5.7
	eSS	C	35 00	D = 83.40 Az = 323 (NEIS)
	LmH	B	02 00.6	PV A 1.4s 23.2nm M = 5.1
	LmV	B	00.6	LmH B 17.5 9.1/um 6.2
				LmV B 18 10.8/um 6.3
20.	eP	A	04 11 23	Eastern Kazakh SSR 50.05 N 77.34 E
	eX	A	11 29.5	H = 04 03 39.3 h = 0 km MB = 5.1
				D = 40.69 Az = 297 (NEIS)
				PV A 0.7s 26.8nm M = 5.1
				XV A 1.2 28.4nm
20.	eP	A	04 43 10	Southern Sinkiang Prov., China
				41.78 N 88.70 E
				H = 04 34 03.6 h = 33 km MB = 5.1
				D = 51.80 Az = 308 (NEIS)
				PV A 1.1s 12.1nm M = 4.8

Day	Phase		h m s	Remarks
20.	ePP	A	12 51 56	Mariana Islands Region 16.89 N 147.61 E
				H = 12 33 37.4 h = 41 km MB = 5.0 (NEIS)
				D = 102.5
				PPV A 1.4s 14.0nm M = 4.3
20.	ePKHKP	A	14 06 16	Fiji Islands Region 21.57 S 179.31 W
				H = 13 47 33.9 h = 622 km MB = 5.2
				D = 149.73 Az = 346 (NEIS)
20.	ePKIKP	A	18 18 56	Off E. Coast of N. Islands, N. Z.
	ePKP2	A	19 52.5	39.11 S 177.13 E
	LmV	C	19 32.5	H = 17 58 58.5 h = 50.7 km MB=5.4 MS=5.5
				D = 164.59 Az = 323 (NEIS)
				LmV C 26 s 1.7/um
20.	ePKIKP	A	18 25 28	Off E. Coast of N. Island, N. Z.
	ePKP2	A	26 24	39.21 S 177.12 E
	e	A	26 40.5	H = 18 05 29.3 h = 44.7 km MB = 5.4
				D = 164.67 Az = 323 (NEIS)
				PKP2V A 1.4s 37.3nm
20.	ePKP2	A	18 59 55.5	Off East Coast of North Island, N. Z.
				39.30 S 177.37 E
				H = 18 38 58.9 h = 34 km MB = 5.3 (ISC)
				D = 164.8
				PKP2V A 1.2s 20.3nm
21.	eP	A	10 44 23	Kurile Islands 43.35 N 146.27 E
				H = 10 32 27.4 h = 56.1 km MB = 4.8
				D = 78.41 Az = 332 (NEIS)
				PV A 1.6s 27.5nm M = 5.0
21.	eP	A	17 45 19	Fox Islands, Aleutian Is. 52.80 N 166.84 W
	epP	A	45 29	H = 17 33 28.0 h = 33 km MB = 4.8 (NEIS)
				D = 77.0 h = 37 km
				PV A 1.6s 27.5nm M = 5.0
21.	ePKP2	A	18 11 05	Off East Coast of North Island, N. Z.
	e	A	11 14	39.32 S 177.32 E
				H = 17 50 06.3 h = 12 km MB = 5.0
				D = 164.85 Az = 323 (ISC)

Day	Phase		h m s	Remarks
21.	ePKP	A	22 45 13.5	New Hebrides 19.97 S 170.1 E
				H = 22 25 40 h = 30 km
				D = 144.99 Az = 336 (ISC)
23.	ePP	A	13 04 10	Mariana Islands Region 16.96 N 147.52 E
				H = 12 45 52.3 h = 42 km MB = 5.3 (NEIS)
				D = 102.4
				PPV A 1.5s 25.1nm M = 4.5
23.	LmH	B	15 53.9	Solomon Islands 6.28 S 154.77 E
	LmV	B	55.0	H = 14 36 41.4 h = 75 km MB = 5.4 (ISC)
				D = 126.3
				LmH B 20s 1.1/um
				LmV B 20 1.5/um
24.	ePKIKP	AB	05 05 58	Kermadec Islands 29.89 S 177.87 W
	ePKP2	A	06 35.5	H = 04 46 04.4 h = 32.9 km MB=6.4 MS=6.8
	e	B	09 10	D = 158.07 Az = 344 (NEIS)
	+iPP	B	10 10	PKIKPV A 2.1s 910.0nm
	ePPP	B	13 50	PKIKPV B 16 14.4/um
	ePPPP	B	16 20	PPV B 16 12.4/um M = 6.8
	LmH	B	18.0	LmH B 21.5 39.2/um 7.1
	LmV	B	26.5	LmV B 20 39.4/um 7.2
25.	ePKP2	A	00 39 10	Kermadec Islands Region
				28.20 S 176.51 W
				H = 00 18 37.5 h = 33 km MB = 5.2
				D = 156.95 Az = 347 (NEIS)
25.	eP	A	00 52 38	Arkansas 35.59 N 90.48 W
				H = 00 41 20.5 h = 15 km MB = 4.9
				D = 70.24 Az = 41 (NEIS)
				traces
25.	e	A	02 00 56	Southern Pacific Ocean 36.89 S 98.07 W
	LmH	C	44.4	H = 01 41 26.9 h = 33 km MB = 5.0
	LmV	C	44.4	D = 129.26 Az = 51 (NEIS)
				LmH C 45s 2.2/um M = 5.5
				LmV C 46 3.4/um 5.5

Day	Phase		h m s	Remarks
25.	eP	A	03 54 53	Nicobar Islands Region 7.45 N 94.37 E
				H = 03 42 46.4 h = 33 km MB = 5.0
				D = 79.69 Az = 320 (NEIS)
				PV A traces
25.	e(P)	A	06 29 42	Nicobar Islands Region 7.34 N 94.49 E
				H = 06 17 30.5 h = 33 km MB = 4.6
				D = 79.85 Az = 320 (NEIS)
				PV A traces
25.	eP	A	08 00 56	Kodiak Island Region 57.01 N 153.71 W
				H = 07 49 33.6 h = 28 km MB = 5.0
				D = 72.03 Az = 10 (NEIS)
				PV A 1.0s 21.6nm M = 5.1
25.	eP1	A	08 28 36	Nicobar Islands Region 7.48 N 94.29 E
	eP2	A	28 43	H = 08 16 30.3 h = 33 km MB=5.3 MS=4.8
	LmH	B	09 10.1	D = 79.62 Az = 320 (NEIS)
	LmV	B	10.1	P1V A 1.4s 23.2nm M = 5.0
				P2V A 1.5 55.3nm 5.4
				LmH B 18 1.2/um 5.3
				LmV B 16 1.8/um 5.5
25.	ePn	A	11 16 07.5	Austria 47.56 N 10.67 E
	iPg	A	16 21.5	H = 11 15 19.4 (CSEM)
	eSn	A	16 47.5	D = 3.13
	iSg	A	17 02	
25.	ePKP	A	11 53 14.5	Fiji Islands Region 17.33 S 177.63 W
	e	A	53 58.5	H = 11 34 21.7 h = 423.4 km MB = 4.5
				D = 145.94 Az = 349 (NEIS)
25.	eP	A	12 00 53	Turkey - USSR Border Region
	eS	B	05 12	41.13 N 43.01 E
	LmH	B	12.4	H = 11 55 39.4 h = 17.8 km MB = 4.8
	LmV	B	14.4	D = 23.67 Az = 304 (NEIS)
				PV A 1.2s 28.5nm M = 4.7
				LmH B 12 2.7/um 5.0
				LmV B 10 2.2/um 5.1

Day	Phase		h m s	Remarks
25.	ePKP2	A	13 01 16	Kermadec Islands 29.78 S 177.90 W
				H = 12 40 49.9 h = 39.3 km MB = 4.7 (NEIS)
				D = 157.9
25.	e(P)	A	17 10 33.5	Northern Sumatra 5.21 N 94.96 E
				H = 16 58 16.9 h = 71 km MB = 5.2
				D = 81.78 Az = 320 (NEIS)
25.	eP1	A	21 21 26	Jan Mayen Island Region 71.69 N 1.93 W
	iP2	A	21 31.5	H = 21 16 33.6 h = 33 km MB = 4.7
	LmV	C	27.7	D = 21.99 Az = 157 (NEIS)
				P1V A 1.6s 55.0nm M = 4.7
				P2V A 1.5 131.0nm 5.1
25.	e	A	22 29 50	Galapagos Islands Region 1.15 N 90.60 W
	ePP	A	33 40.5	H = 22 16 10.6 h = 33 km MB=5.5 MS=5.8
	ePS	C	42 25	D = 96.85 Az = 39 (NEIS)
	eSS	C	47 45	LmH B 19.5s 6.2/um M = 6.1
	LmV	B	23 08.5	LmV B 22 8.0/um 6.2
	LmH	B	08.6	
25.	eP	A	23 17 50	Central Mexico 20.62 N 99.09 W
				H = 23 05 07.1 h = 33 km MB = 5.0
				D = 86.61 Az = 37 (NEIS)
26.	eP1	A	02 04 57	Jan Mayen Island Region 71.90 N 2.38 W
	eP2	A	05 04	H = 02 00 01.5 h = 33 km MB = 4.5
	LmV	C	11.3	D = 22.24 Az = 156 (NEIS)
				P2V A 1.7s 60.6nm M = 4.8
26.	eP	A	11 16 31	Azores Region 36.66 N 33.83 W
				H = 11 09 39.2 h = 33 km MB = 4.7
				D = 35.16 Az = 52 (ISC)
26.	ePKHKP	A	15 14 46.5	Fiji Islands Region 21.42 S 178.76 W
	ePKP2	A	14 54.5	H = 14 55 59.0 h = 619.9 km MB = 4.5
				D = 149.71 Az = 347 (NEIS)

Day	Phase		h m s	Remarks
26.	ePn	A	22 29 22	Switzerland 47.58 N 9.41 E
	ePg	A	29 35	H = 22 28 32.3 h = 33 km MB = 5.2
	eSg	A	30 17	D = 3.40 Az = 24 (NEIS)
27.	ePKIKP	A	02 55 03.5	Kermadec Islands 30.18 S 177.94 W
	ePKP2	A	55 36.5	H = 02 35 08.1 h = 35.9 km MB=5.4 MS=5.4
	e	A	56 07.5	D = 158.34 Az = 343 (NEIS)
27.	LmV	C	10 00.2	Mid-Indian Rise 38.91 S 78.08 E
	LmH	C	04.0	H = 08 49 32.3 h = 35 km MB = 5.2 (ISC)
				D = 106.5
				LmV C 18s 1.7/um M = 5.7
27.	ePKIKP	A	20 01 52	Kermadec Islands 30.58 S 178.20 W
	ePKHKP	A	02 04	H = 19 42 00.8 h = 59 km MB = 5.8
	ePKP2	A	02 28	D = 158.65 Az = 343 (NEIS)
	LmV	C	21 26.5	PKIKPV A 1.9s 98.5nm
				LmV C 20 0.7/um
27.	eSg	A	22 31 58.5	Poland 50.58 N 19.60 E
				H = 22 29 28.7 h = 33 km
				D = 5.08 Az = 274 (NEIS)
27.	e(P)	A	23 27 28	Off Coast of Central America
				3.92 N 85.92 W
				H = 23 14 16.3 h = 33 km MB = 5.2
				D = 91.78 Az = 39 (NEIS)
				traces
28.	e(PP)	A	02 00 37.5	Marianas 13.78 N 144.73 E
				H = 01 42 27.5 h = 118 km MB = 5.5 (ISC)
				D = 100.4
28.	eP	A	07 07 05	Fox Islands, Aleutian Is.
	LmV	C	52.0	52.70 N 167.15 W
	LmH	C	53.0	H = 06 55 15.2 h = 35.9 km MB=5.2 MS=4.8
				D = 77.02 Az = 1 (NEIS)
				LmH C 16s 0.9/um M = 5.2
				LmV C 16 0.6/um 5.0

Day	Phase		h m s	Remarks
28.	ePg	A	08 20 50	Switzerland 47.58 N 9.32 E
	eSg	A	21 36	H = 08 19 41.9 h = 3.6 km
				D = 3.42 Az = 25 (NEIS)
28.	eP	A	08 57 29	Southern Sinkiang Prov., China
				41.17 N 82.18 E
				H = 08 48 47.9 h = 35 km MB = 5.0 MS=4.6
				D = 48.27 Az = 306 (NEIS)
28.	eiP	AB	20 27 19	North Atlantic Ridge 33.78 N 38.63 W
	iPP	AB	28 54	H = 20 19 45.6 h = 33 km MB=5.5 MS=5.8
	iS	B	33 28	D = 40.02 Az = 50 (NEIS)
	LmH	B	41.2	PV A 1.7s 109.0nm M = 5.3
	LmV	B	41.6	PPV A 3.0 500.0nm 5.8
				SH B 14 6.6/um 6.3
				LmH B 20 10.0/um 5.6
				LmV B 18 11.7/um 5.9
28.	eP	A	22 32 06	Hokkaido, Japan Region 41.73 N 142.81 E
				H = 22 20 08.1 h = 53.2 km MB = 5.1
				D = 78.61 Az = 331 (NEIS)
29.	eP1	A	05 52 41	Off Coast of Central America
	eP2	A	52 48	3.93 N 85.88 W
	iSKS	C	06 03 20	H = 05 39 35.5 h = 33 km MB=5.9 MS=6.5
	eiSS	C	09 40	D = 91.74 Az = 39 (NEIS)
	eSSS	C	13 35	P2V A 2.2s 153.0nm M = 6.0
	LmH	B	34.3	LmH B 17.5 10.6/um 6.3
	LmV	B	34.4	LmV B 17.5 10.9/um 6.4
29.	ePKP	A	12 10 57.5	Fiji Islands Region 17.06 S 179.10 W
				H = 11 52 19.3 h = 542.8 km MB = 4.9
				D = 145.41 Az = 348 (NEIS)
				PKPV A 2.0s 94.0nm
29.	eP	A	12 45 29.5	Jan Mayen Island Region 71.12 N 8.52 W
	e	A	45 36	H = 12 40 32.1 h = 33 km MB = 4.7
				D = 22.52 Az = 145 (NEIS)
				PV A 1.4s 32.6nm M = 4.6

Day	Phase		h m s	Remarks
29.	-iP	A	20 00 16.5	Kurile Islands 46.02 N 149.51 E
				H = 19 48 39.8 h = 162 km MB = 5.5
				D = 77.06 Az = 334 (NEIS)
				PV A 1.7s 139.4nm M = 5.4
30.	eP	A	06 05 24.5	Off East Coast of Honshu, Japan
	ePP	A	08 23	39.65 N 143.24 E
	LmV	B	46.6	H = 05 53 14.3 h = 42.3 km MB=5.4 MS=4.9
	LmH	B	46.8	D = 80.59 Az = 331 (NEIS)
				PV A 1.6s 44.0nm M = 5.2
30.	eP	A	06 16 26	Off East Coast of Honshu, Japan
	LmH	B	57.5	39.50 N 143.34 E
	LmV	B	57.5	H = 06 04 14.5 h = 39.7 km MB=5.3 MS=4.7
				D = 80.75 Az = 331 (NEIS)
				PV A 1.3s 45.9nm M = 5.3
				LmH B 14 2.0/um 5.6
				LmV B 14 2.2/um 5.7
30.	eP	A	09 21 33	Off East Coast of Honshu, Japan
	LmH	B	55.8	39.51 N 143.34 E
	LmV	B	10 02.4	H = 09 09 21.1 h = 48.6 km MB=5.0 MS=4.4
				D = 80.74 Az = 331 (NEIS)
				LmH B 19s 1.9/um M = 5.5
				LmV B 18 1.3/um 5.4
30.	eP	A	15 13 35.5	Jan Mayen Island 72.0 N 2.1 W
				H = 15 08 38 h = 33 km
				D = 22.28 Az = 157 (ISC)
				PV A 1.9s 45.5nm M = 4.6
30.	e(P)	A	19 09 58.5	Jan Mayen Island Region 72.1 N 1.7 W
				H = 19 05 03 h = 33 km MB = 4.5
				D = 22.36 Az = 157 (ISC)
				PV A 1.7s 39.4nm M = 4.6
30.	ePKP	A	23 18 13	Samoa Islands Region 15.49 S 172.44 W
	e	A	18 24	H = 22 58 37.7 h = 33 km MB = 5.1
				D = 144.78 Az = 356 (NEIS)

Day	Phase		h m s	Remarks
31.	eP	A	00 06 34	North Atlantic Ocean 58.37 N 31.84 W
	e	A	06 40.5	H = 00 01 00.3 h = 10.5 km MB=5.1 MS=4.5
	eS	B	11 26	D = 25.98 Az = 88 (NEIS)
	LmV	B	17.3	PV A 1.4s 41.9nm M = 4.9
	LmH	B	17.7	LmH B 13 2.6/um 4.9
				LmV B 16 1.8/um 4.8
31.	eP	A	02 41 58	Southern Iran 28.15 N 56.63 E
				H = 02 34 22.3 h = 65.9 km MB = 4.9
				D = 40.59 Az = 316 (NEIS)
31.	eP	A	08 32 16	Jan Mayen Island Region 71.2 N 0.2 W
				H = 08 27 30 h = 33 km
				D = 21.35 Az = 159 (ISC)
31.	LmH	C	13 30.7	Banda Sea 6.83 S 129.51 E
	LmV	C	38.9	H = 12 27 03.1 h = 59 km MB = 5.3 (ISC)
				D = 112.7
31.	eP	A	21 17 40.5	Afghanistan - USSR Border Region
				36.31 N 71.50 E
				H = 21 09 36.6 h = 106 km MB = 5.0
				D = 44.55 Az = 308 (NEIS)
31.	eP	AC	23 55 30	North Atlantic Ocean 58.39 N 31.86 W
	eS	C	24 00 05	H = 23 50 00.3 h = 41.3 km MB = 4.8
	LmV	B	06.2	D = 25.99 Az = 88 (NEIS)
	LmH	B	06.5	PV A 1.6s 60.5nm M = 4.9
				LmH B 14 4.0/um 5.1
				LmV B 16 5.2/um 5.3

Day	Phase		h m s	Remarks
1.	eP	A	04 40 20.5	USSR - Mongolia Border Region
	e	A	40 54.5	51.12 N 97.96 E
	eS	C	47 40	H = 04 31 16.7 h = 33 km MB=5.2 MS=4.7
	eSS	C	51 20	D = 51.37 Az = 306 (NEIS)
	LmH	B	05 03.5	PV A 1.4s 41.9nm M = 5.2
	LmV	B	03.7	LmH B 12.5 2.9/um 5.5
				LmV B 14 2.6/um 5.5
1.	ePKP	A	06 37 56	Tonga Islands 14.98 S 173.71 W
				H = 06 18 22.8 h = 33 km MB=5.3 MS=4.6
				D = 144.17 Az = 354 (NEIS)
1.	LmH	B	18 14.2	Near Coast of Peru 16.50 S 73.50 W
	LmV	B	14.4	H = 17 17 34.8 h = 76 km MB = 4.9 (ISC)
				D = 99.5
				LmH B 19s 0.4/um
				LmV B 19 0.6/um
1.	ePKIKP	A	21 23 12.5	Santa Cruz Islands 12.89 S 166.45 E
				H = 21 03 57.3 h = 84.2 km MB = 5.8
				D = 137.12 Az = 337 (NEIS)
2.	eP	A	05 37 29	Kurile Islands 44.50 N 149.20 E
				H = 05 25 29.4 h = 33 km MB = 4.5
				D = 78.33 Az = 334 (NEIS)
				traces
2.	eP	A	08 44 12	South of Panama 7.07 N 82.56 W
				H = 08 31 27.0 h = 33 km MB = 5.2
				D = 87.23 Az = 39 (NEIS)
				PV A 1.6s 33.0nm M = 5.3
2.	ePKP2	A	10 44 18.5	Kermadec Islands 30.34 S 177.5 W
				H = 10 23 48 h = 15 km
				D = 158.60 Az = 344 (ISC)
2.	e	A	11 56 24.5	Northern Italy 44.86 N 10.32 E
	ePg	A	56 29	H = 11 54 39.2 h = 33 km
	eSg	A	57 41.5	D = 5.85 Az = 8 (NEIS)
				PgV A 0.9s 38.9nm

Day	Phase		h m s	Remarks
2.	ePKP2	A	16 10 31.5	Kermadec Islands 30.72 S 178.11 W
				H = 15 49 58.1 h = 33 km MB = 5.1
				D = 158.80 Az = 343 (NEIS)
2.	iPn	A	16 36 37.0	Western Poland (VIE)
	iSg	A	37 16	D c. 2.3
2.	eP	A	17 03 31.5	Turkey 39.81 N 43.61 E
	e	A	03 38.5	H = 16 58 07.6 h = 45.9 km MB = 4.6
	eS	C	07 55	D = 24.81 Az = 307 (NEIS)
	LmV	B	15.7	LmH B 13.5s 2.2/um M = 4.8
	LmH	B	15.8	LmV B 14 1.5/um 4.8
2.	+eP	A	17 20 19	Near East Coast of Honshu, Japan
	ePP	A	23 26	35.96 N 141.58 E
	LmH	B	18 01.8	H = 17 07 54.8 h = 34 km MB=5.5 MS=5.5
	LmV	B	02.5	D = 83.16 Az = 331 (NEIS)
				PV A 1.4s 41.9nm M = 5.4
				LmH B 16 1.9/um 5.6
				LmV B 14 1.8/um 5.6
2.	eP	A	17 57 41	Eastern Caucasus 42.99 N 45.09 E
				H = 17 52 28.3 h = 33 km MB = 4.5
				D = 23.99 Az = 300 (NEIS)
				PV A 0.9s 15.6nm M = 4.9
2.	eSn	A	19 31 41	Poland 50.2 N 19.0 E
	e	A	31 49	H = 19 29 34 h = 0 km
				D = 4.74 Az = 278 (ISC)
2.	eP	A	23 04 19.5	Fox Islands, Aleutian Is.
				52.18 N 169.57 W
				H = 22 52 24.9 h = 34.5 km MB = 4.8
				D = 77.55 Az = 359 (NEIS)
2.	ePKP	A	23 35 28	Loyalty Islands Region 21.42 S 170.32 E
				H = 23 16 03.2 h = 145.9 km MB = 4.7
				D = 146.38 Az = 335 (NEIS)

Day	Phase		h m s	Remarks
3.	eP	A	00 38 50	Fox Islands, Aleutian Is.
	e	A	39 02	52.15 N 169.61 W
	LmH	B	01 17.5	H = 00 26 54.0 h = 22.1 km MB=5.0 MS=5.0
	LmV	B	26.3	D = 77.58 Az = 359 (NEIS)
				PV A 1.3s 34.9nm M = 5.2
				LmH B 18 0.4/um 4.8
				LmV B 16 0.7/um 5.1
3.	ePKP2	A	12 54 52	Kermadec Islands Region 30.22 S 178.96 W
				H = 12 34 26.2 h = 33 km MB = 4.9 (NEIS)
				D = 158.0
3.	ePKHKP	A	18 19 31.5	Fiji Region 20.43 S 177.77 W
				H = 18 00 36.2 h = 446 km
				D = 148.95 Az = 348 (ISC).
3.	eP	A	19 26 12	Kurile Islands 44.26 N 149.71 E
				H = 19 14 11.1 h = 33 km MB = 5.0
				D = 78.70 Az = 334 (NEIS)
				PV A 1.8s 33.8nm M = 5.1
4.	eP	A	02 43 45	Fox Islands, Aleutian Is.
				52.05 N 169.55 W
				H = 02 31 48.2 h = 24.2 km ME=4.5 MS=4.4
				D = 77.68 Az = 359 (NEIS)
4.	eP	A	07 09 23.5	Jan Mayen Island Region 71.47 N 8.85 W
				H = 07 04 22.0 h = 33 km ME = 4.4
				D = 22.87 Az = 145 (NEIS)
				PV A 1.1s 16.1nm M = 4.4
4.	ePKIKP	A	07 47 30.5	Fiji Islands Region 20.84 S 178.42 W
	ePKHKP	A	47 35.5	H = 07 28 51.3 h = 594.3 km MB = 4.9
	ePKP2	A	47 41.5	D = 149.21 Az = 347 (NEIS)
				PKIKPV A traces
4.	ePKHKP	A	15 59 08	Fiji Islands Region 19.92 S 178.18 W
				H = 15 40 25.1 h = 595.6 km MB = 4.7
				D = 148.38 Az = 348 (NEIS)

Day	Phase		h m s	Remarks
7.	ePKHKP	A	12 25 59.5	Tonga Islands 19.95 S 173.77 W
				H = 12 06 12.4 h = 33 km MB=5.1 MS=4.8
				D = 149.08 Az = 353 (NEIS)
				PKHKPV A 1.6s 46.7nm
8.	+iP	AB	02 47 38	Uzbek SSR 40.31 N 63.77 E
	e	B	49 26	H = 02 40 27.0 h = 33 km MB=6.5 MS=7.0
	iS	B	53 20	D = 37.29 Az = 304 (NEIS)
	iSS	B	55 57	PV A 2.1s 910.0nm M = 6.3
	LmH	B	03 03.4	PV B 10 14.2nm 6.8
	LmV	B	08.0	LmH B 18 268.0/um 7.1
				LmV B 11 161.4/um 7.2
8.	eP	A	03 06 17	Uzbek SSR 40.17 N 63.81 E
				H = 02 59 05.5 h = 33 km MB = 6.2
				D = 37.39 Az = 304 (NEIS)
8.	eP	A	12 10 55	Uzbek SSR 40.20 N 64.06 E
	LmH	B	31.4	H = 12 03 41.1 h = 33 km MB = 5.1
	LmV	B	31.4	D = 37.54 Az = 304 (NEIS)
				PV A 1.0s 19.7nm M = 4.9
				LmH B 10.5 0.5/um 4.6
				LmV B 12 0.45/um 4.6
8.	eP	A	15 34 12	Southern California 34.35 N 118.67 W
	e	A	34 17.5	H = 15 21 37.9 h = 16 km MB=4.7 MS=3.9
	LmV	C	16 15.0	D = 84.69 Az = 29 (NEIS)
				PV A 1.6s 19.2nm M = 5.1
9.	eP	A	04 02 03	Off Coast of Northern California
				41.88 N 126.81 W
				H = 03 49 49.0 h = 27.1 km MB=4.9 MS=4.1
				D = 80.95 Az = 25 (NEIS)
				PV A traces
9.	eP1	AB	07 21 50	Near Coast of Ecuador 0.78 N 79.80 W
	+iP2	A	21 55.7	H = 07 08 47.0 h = 9.5 km MB=6.1 MS=6.7
	ePP	B	25 24	D = 90.3 Az = 40 (NEIS)
	eiSKS	C	32 20	P1V A 2.0s 77.0nm M = 5.6

Day	Phase		h m s	Remarks
cont. 9.	eS	C	07 32 48	P2V A 2.1s 422.0nm M = 6.3
	ePS	B	33 55	PV B 14 5.8/um 6.6
	eSS	C	38 42	LmH B 20.5 11.0/um 6.3
	LmV	B	55.6	LmV B 24 19.7/um 6.5
	LmH	B	59.6	
9.	ePKP2	A	19 22 51	South of Kermadec Islands
	LmV	B	20 51.1	34.07 S 178.61 W
				H = 19 02 05.6 h = 21 km (NEIS)
				D = 161.7
				PKP2V A 1.4s 18.6nm
				LmV B 16 0.3/um M = 5.2
10.	eP	A	00 53 20.5	Off East Coast of Honshu, Japan
	LmH	B	01 28.1	39.74 N 143.61 E
	LmV	B	35.7	H = 00 41 07.5 h = 16.4 km MB = 4.9
				D = 80.64 Az = 331 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
				LmH B 17 2.4/um 5.6
				LmV B 16 1.5/um 5.5
10.	eP	A	01 32 27	Molucca Passage 2.36 N 126.69 E
				H = 01 18 22.6 h = 41.8 km MB = 5.0
				D = 103.77 Az = 324 (NEIS)
10.	eP	A	01 53 55	Off East Coast of Honshu, Japan
				39.72 N 143.55 E
				H = 01 41 44.1 h = 33 km MB = 5.0
				D = 80.64 Az = 331 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
10.	eP	A	11 38 52.5	Off East Coast of Honshu, Japan
	LmH	B	12 13.5	39.73 N 143.51 E
	LmV	B	21.0	H = 11 26 41.2 h = 33 km MB = 4.9
				D = 80.61 Az = 331 (NEIS)
				PV A 1.3s 19.7nm M = 4.9
				LmH B 17 1.2/um 5.3
				LmV B 16 0.9/um 5.2

Day	Phase		h m s	Remarks
10.	ePKP	AB	17 30 45.5	Fiji Islands Region 17.66 S 178.50 W
	epPKP	B	32 56	H = 17 12 09.2 h = 560 km MB = 5.7
	esSS	C	54 50	D = 146.11 Az = 348 (NEIS)
	LmH	C	18 12.5	h = 575 km
	LmV	C	12.5	LmH C 47s 3.3/um
				LmV C 32 1.3/um
11.	eP	A	03 04 51	Kurile Islands 43.85 N 146.26 E
				H = 02 53 02.6 h = 96.6 km MB = 5.1
				D = 77.95 Az = 332 (NEIS)
11.	ePKHKP	A	06 25 17	Fiji Islands Region 20.37 S 177.97 W
				H = 06 06 30.8 h = 553.8 km MB = 5.0
				D = 148.85 Az = 348 (NEIS)
				PKHKPV A 1.4s 32.6nm
11.	ePKP	A	08 12 20.5	Samoa 14.30 S 169.26 W
				H = 07 52 50.1 h = 33 km MB = 5.0
				D = 143.74 Az = 359 (ISC)
11.	eP	A	13 12 24.5	E. USSR - N.E. China Border Region
				42.99 N 130.87 E
				H = 13 01 49.6 h = 545.4 km MB = 4.8
				D = 72.81 Az = 324 (NEIS)
11.	iP	A	13 14 12.5	E. USSR - N.E. China Border Region
	epP	A	16 08	42.83 N 130.95 E
	ePP	A	17 06.5	H = 13 03 35.7 h = 529 km MB = 5.0
				D = 72.97 Az = 325 (NEIS)
				h = 565 km
				PV A 1.7s 97.0nm M = 5.1
				pPV A 1.3 32.8nm
				PPV A 1.7 45.5nm 5.2
12.	eP	A	04 29 07.5	Kurile Islands 48.32 N 153.61 E
				H = 04 17 32.6 h = 133.3 km MB = 4.8
				D = 76.15 Az = 336 (NEIS)

Day	Phase		h m s	Remarks
12.	eP	A	04 53 43	Fox Islands, Aleutian Is. 52.41 W 170.19 W
				H = 04 41 51.4 h = 37.8 km MB=5.2 MS=4.9
				D = 77.31 Az = 359 (NEIS)
				PV A 1.2s 24.4nm M = 5.1
12.	ePKP2	A	23 10 14	South of Kermadec Islands
	e	A	10 29.5	32.74 S 179.66 W
	epPKP2	A	10 58.5	H = 22 49 50.3 h = 143 km MB = 5.5 (NEIS)
				D = 160.1
				PKP2V A 1.5s 20.1nm
13.	ePKP2	A	06 21 22	Kermadec Islands 29.52 S 177.25 W
				H = 06 00 58.1 h = 55 km MB = 5.3
				D = 157.8
13.	ePKP2	A	06 30 03	Kermadec Islands Region 28.9 S 176.7 W
				H = 06 09 41 h = 47 km
				D = 157.36 Az = 346 (ISC)
13.	eP	A	07 38 04	Kurile Islands 47.15 N 152.52 E
				H = 07 26 20.2 h = 93.7 km MB = 5.0
				D = 76.92 Az = 336 (NEIS)
				PV A 1.0s 11.8nm M = 4.7
13.	ePKP2	A	11 04 52.5	Kermadec Islands 29.71 S 177.08 W
				D = 10 44 25.2 h = 33 km MB = 4.5 (NEIS)
				D = 158.0
13.	eP	A	20 30 53	Near Coast of Jalisco, Mexico
	eS	C	41 55	18.55 N 104.80 W
	LmV	B	21 16.9	H = 20 17 48.2 h = 33 km MB=5.3 MS=4.9
	LmH	B	17.0	D = 91.43 Az = 35 (NEIS)
				PV A 1.8s 33.8nm M = 5.4
				LmH B 15 0.9/um 5.3
				LmV B 13 0.9/um 5.4
13.	eP	A	21 19 12	Greenland Sea 74.00 N 9.33 E
				H = 21 14 01.0 h = 33 km MB = 4.8
				D = 23.46 Az = 176 (NEIS)

Day	Phase		h m s	Remarks
13.	eSg	A	22 58 38	Northern Italy 45.92 N 13.8 E
				H = 22 56 06 h = 33 km (ISC)
				D = 5.0
13.	eP	A	24 01 35.5	Hokkaido, Japan Region 41.70 N 141.19 E
				H = 23 49 46.1 h = 98.9 km MB = 5.3
				D = 78.03 Az = 330 (NEIS)
14.	LmH	B	07 51.0	South-east of Shikoku 31.69 N 132.65 E
	LmV	B	51.5	H = 06 56 52.7 h = 28 km MB = 4.8 (ISC)
				D = 82.9
				LmV B 15s 0.5/um M = 5.1
14.	ePKHKP	A	08 19 15.5	South of Fiji Islands 22.21 S 179.49 W
				H = 08 00 28.8 h = 575.7 km MB = 4.6
				D = 150.31 Az = 346 (NEIS)
				PKHKPV A 1.1s 24.2nm
14.	eP	A	14 13 13	Taiwan 23.22 N 120.75 E
	eS	C	23 40	H = 14 00 46.0 h = 33 km MB = 5.5
	LmH	B	55.5	D = 83.67 Az = 323 (NEIS)
	LmV	B	55.5	PV A 1.9s 45.5nm M = 5.3
				LmH B 12.5 2.2/um 5.7
				LmV B 14 3.0/um 5.9
14.	ePKIKP	A	15 45 59.5	South of Australia 51.91 S 139.47 E
	ePKHKP	AB	46 02	H = 15 26 16.8 h = 33 km MB=5.4 MS=6.2
	ePKP2	A	46 08.5	D = 147.93 Az = 289 (NEIS)
	eSS	C	16 08 32	PKHKPV A 2.0s 59.8nm
	eSSS	C	14 00	LmH B 20 2.3/um M = 5.9
	LmV	B	56.5	LmV B 21 3.7/um 6.1
	LmH	B	58.3	
15.	eP	A	03 56 08	Greenland Sea 75.58 N 8.03 E
				H = 03 50 46.3 h = 33 km MB = 4.5
				D = 25.07 Az = 175 (NEIS)
16.	ePKP2	A	04 29 28	South of Fiji Islands 25.23 S 176.08 W
				H = 04 09 20.6 h = 33 km MB = 4.7
				D = 153.94 Az = 349 (NEIS)
				traces

Day	Phase		h m s	Remarks
16.	eSg	A	05 00 39	Yugoslavia 45.9 N 15.5 E
				H = 04 57 52 h = 11 km (ISC)
				D = 5.4
16.	iPg	A	11 12 28	Czechoslovakia 50.63 N 14.1 E
	iSg	A	12 49	H = 11 11 56 h = 0 km
				D = 1.61 Az = 272 (ISC)
16.	ePKIKP	A	16 13 41.5	New Hebrides Islands Region
				14.43 S 172.00 E
				H = 15 55 25.4 h = 620.3 km MB = 5.0
				D = 140.54 Az = 340 (NEIS)
				traces
16.	eP	A	17 03 39	Nicobar Islands Region 7.49 N 94.80 E
	e	A	03 45	H = 16 51 31.2 h = 22 km MB = 5.2
	LmV	B	45.3	D = 79.68 Az = 320 (NEIS)
	LmH	B	45.5	PV A 1.4s 46.5nm M = 5.3
				LmH B 18.5 0.7/um 5.1
				LmV B 18 0.8/um 5.1
16.	eP	A	17 19 11	Off East Coast of Honshu, Japan
	LmH	B	18 00.3	40.33 N 143.89 E
	LmV	B	02.6	H = 17 07 02.2 h = 33 km MB = 4.9
				D = 80.23 Az = 331 (NEIS)
				LmH B 14.5s 0.9/um M = 5.3
				LmV B 13 0.6/um 5.2
16.	eP	A	17 59 10	Nicobar Islands Region 7.34 N 94.35 E
				H = 17 47 00.4 h = 21 km MB = 5.0
				D = 79.76 Az = 320 (NEIS)
18.	ePS	C	00 49 00	South of Africa 53.16 S 25.32 E
	eSS	C	54 32	H = 00 21 24.5 h = 33 km
	LmH	B	01 23.4	MB = 5.4 MS = 5.4 (NEIS)
	LmV	B	24.0	D = 104.2
				LmH B 16.5s 1.1/um M = 5.5
				LmV B 16 1.0/um 5.4

Day	Phase		h m s	Remarks
18.	ePKHKP	A	11 40 08	Fiji Islands Region 20.53 S 178.55 W
	ePKP2	A	40 15	H = 11 21 26.5 h = 613.5 km MB = 4.5
				D = 148.90 Az = 347 (NEIS)
18.	LmH	B	15 44.6	LmH B 20s 0.6/um
	LmV	B	45.5	LmV B 20 0.7/um
18.	ePP	A	19 58 27	Chile-Argentina Border Region
				25.84 S 68.77 W
				H = 19 40 20.5 h = 113 km MB = 5.6 (NEIS)
				D = 103.8
19.	eP	A	00 31 56.5	Crete 35.67 N 24.65 E
	e	A	32 05	H = 00 27 52.4 h = 73.9 km MB = 4.8
	LmH	C	38.3	D = 17.69 Az = 332 (NEIS)
	LmV	C	40.1	PV A 1.1s 20.2nm M = 4.3
19.	eP	AC	11 03 03.5	Off East Coast of Honshu, Japan
	ePP	C	06 05	40.17 N 143.24 E
	eS	C	13 06	H = 10 50 53.3 h = 17 km MB=5.3 MS=5.5
	LmH	B	38.2	D = 80.13 Az = 331 (NEIS)
	LmV	B	44.8	PV A 1.4s 55.8nm M = 5.4
				LmH B 16.5 3.8/um 5.8
				LmV B 14 2.1/um 5.7
19.	eP	A	11 27 56	Costa Rica 9.46 N 84.25 W
				H = 11 15 15.5 h = 363 km MB=4.9 MS=5.2
				D = 86.47 Az = 39 (NEIS)
19.	eP	A	19 19 29	Celebes Sea 4.13 N 124.81 E
				H = 19 06 11.2 h = 303.4 km MB = 5.5
				D = 101.24 Az = 323 (NEIS)
				PV A 1.4s 27.9nm M = 5.6
19.	e	A	19 23 39.5	Celebes Sea 4.13 N 124.81 E
	eX	A	23 46	H = 19 06 11.2 h = 303 km MB = 5.5 (NEIS)
	LmH	C	20 08.3	D = 101.3
	LmV	C	08.3	XV A 1.3s 30.6nm
				LmV C 18 0.45/um

Day	Phase		h m s	Remarks
20.	eP	A	05 02 25	Turkey 40.76 N 42.09 E
				H = 04 57 17.8 h = 31 km MB = 4.5
				D = 23.31 Az = 305 (NEIS)
20.	ePKP	A	06 22 58	Fiji Islands Region 17.79 S 178.65 W
				H = 06 04 17.7 h = 523 km MB = 4.7
				D = 146.21 Az = 348 (NEIS)
20.	eP	A	08 11 38	Fox Islands, Aleutian Islands
				53.53 N 165.47 W
				H = 07 59 53.8 h = 46.1 km MB=4.8 MS=5.5
				D = 76.17 Az = 2 (NEIS)
20.	ePP	C	08 51 50	Solomon Islands 7.22 S 155.09 E
	eSP	C	09 01 40	H = 08 30 35.7 h = 33 km MB=5.1 MS=5.5
	eSS	C	08 55	D = 127.14 Az = 332 (NEIS)
	LmH	B	50.0	LmH B 18s 0.9/um M = 5.3
	LmV	B	50.0	LmV B 18 0.8/um 5.4
20.	eP	A	09 39 37	Kurile Islands 47.22 N 154.13 E
				H = 09 27 44.5 h = 33 km MB = 5.2
				D = 77.30 Az = 337 (NEIS)
				PV A 1.4s 23.3nm M = 5.0
20.	ePKP	A	11 05 21	Fiji Region 20.2 S 178.72 W
				H = 10 45 42.7 h = 33 km
				D = 148.49 Az = 347 (ISC)
20.	eP	A	11 57 28	North Atlantic Ridge 14.98 N 45.13 W
				H = 11 47 40.3 h = 33 km MB=5.2 MS=4.4
				D = 57.62 Az = 39 (NEIS)
				PV A 1.0s 15.7nm M = 5.0
20.	eP	A	14 38 12	Southeastern Alaska 60.41 N 140.65 W
				H = 14 27 20.6 h = 33 km
				MB = 4.8 MS = 4.6 (NEIS)
				D = 66.8
				PV A 1.5s 20.1nm M = 5.0

Day	Phase		h m s	Remarks
20.	eP	A	19 56 24	Kurile Islands 47.28 N 154.15 E H = 19 44 30.9 h = 33 km MB = 5.1 D = 77.25 Az = 337 (NEIS)
20.	eP	A	20 35 43	Kurile Islands Region 43.26 N 148.23 E H = 20 23 42.1 h = 33 km MB = 4.7 D = 79.13 Az = 334 (NEIS)
20.	ePKP	A	20 55 10.5	Tonga Islands 16.07 S 175.33 W H = 20 36 12.1 h = 331.3 km MB = 4.4 D = 145.06 Az = 352 (NEIS) PKPV A 1.6s 33.0nm
21.	eP	A	05 05 46.5	Eastern Kazakh SSR 49.82 N 78.20 E
	ePn	A	07 20	H = 04 57 57.6 h = 0 km MB = 5.1 D = 41.29 Az = 298 (NEIS) Underground explosion (UPP) PV A 0.8s 23.1nm M = 5.0
21.	eP	A	05 10 58.5	Eastern Kazakh SSR 49.93 N 78.82 E
	ePn	A	12 27	H = 05 02 57.4 h = 0 km MB = 5.3 D = 41.59 Az = 298 (NEIS) Underground explosion M = 6.2 (UPP) PV A 1.2s 32.5nm M = 4.9
21.	eP	A	14 48 46	Uzbek SSR 40.26 N 63.81 E
	LmV	B	15 08.9	H = 14 41 34.6 h = 33 km MB = 5.0 D = 37.34 Az = 304 (NEIS) PV A 1.1s 14.1nm M = 4.8 LmH B 11 0.3/um 4.4 LmV B 12 0.5/um 4.6
	LmH	B	09.0	
21.	ePKP	A	17 10 53.5	Samoa Region 15.20 S 172.2 W H = 16 51 19.7 h = 33 km MB = 4.7 D = 144.51 Az = 356 (ISC) PKPV A 1.3s 19.7nm

Day	Phase		h m s	Remarks
21.	eP	A	19 21 52	Andaman Islands Region 10.28 N 92.88 E H = 19 09 59.6 h = 33 km MB = 5.7 D = 76.59 Az = 320 (NEIS)
21.	eP	A	19 53 47	Taiwan Region 24.00 N 122.31 E H = 19 41 20.1 h = 38.4 h = 5.4 D = 83.90 Az = 323 (NEIS) LmH B 15s 0.5/um M = 5.1 LmV B 16 0.9/um 5.3
	LmH	B	20 35.5	
	LmV	B	35.5	
21.	eP	A	19 58 25.5	Taiwan Region 23.98 N 122.40 E H = 19 45 56.8 h = 36.4 km MB = 4.9 D = 83.97 Az = 323 (NEIS)
21.	ePn	A	20 02 18.5	Yugoslavia 43.40 N 17.49 E H = 20 00 18.9 h = 31.8 km MB = 5.5 D = 8.28 Az = 333 (NEIS) PnV A 0.5s 30.8nm M = 5.7 LmH B 8 2.1/um 4.2 LmV B 12 2.3/um
	eSn	A	03 48	
	eSg	A	04 39	
	LmH	B	05.6	
	LmV	B	05.6	
21.	ePKIKP	A	20 44 52	South of Fiji Islands 24.88 S 179.94 E H = 20 25 58.4 h = 500.5 km MB = 5.4 D = 152.74 Az = 344 (NEIS)
	ePKHKP	A	44 59.5	
	ePKP2	A	45 12	
	epPKP	A	46 59	
21.	eP	A	22 03 12	Turkey 40.63 N 42.00 E H = 21 58 06.7 h = 56 km MB = 4.3 D = 23.34 Az = 306 (NEIS)
22.	eP	A	01 01 04	Yugoslavia 43.29 N 17.34 E H = 00 59 02.3 h = 34.4 km MB = 3.1 D = 8.33 Az = 334 (NEIS) LmH B 7s 0.6/um M = 4.3 LmV B 7 0.55/um
	LmH	B	04.3	
	LmV	B	04.4	
22.	eP	A	17 10 21	Southern Iran 28.71 N 52.13 E H = 17 03 07.9 h = 23.7 km MB=6.0 MS=5.5 D = 37.46 Az = 317 (NEIS)
	ePP	C	11 48	
	eS	C	16 10	

Day	Phase		h m s	Remarks
cont. 22.	e	C	17 19 00	PV A 1.7s 167.0nm M = 5.6
	ei	C	21 08	LmH B 16 2.3/um 5.1
	LmH	B	27.2	LmV B 18 3.4/um 5.3
	LmV	B	27.7	
23.	ePKHKP	A	08 54 52.5	Fiji Islands Region 20.08 S 177.84 W
				H = 08 36 06.9 h = 563.8 km MB = 5.1
				D = 148.59 Az = 348 (NEIS)
				PKHKPV A 1.3s 26.2nm
23.	ePKHKP	A	17 35 44.5	Tonga Islands 18.33 S 173.65 W
				H = 17 16 04.2 h = 73 km MB = 4.8
				D = 147.49 Az = 354 (NEIS)
				PKHKPV A 1.2s 14.2nm
24.	eP	A	01 37 49.5	Off East Coast of Honshu, Japan
	e	C	38 25	34.11 N 141.59 E
	e	C	41 35	H = 01 25 17.5 h = 43 km
	eS	C	48 16	MB = 5.1 MS = 5.5 (NEIS)
	LmH	B	02 24.0	D = 84.7
	LmV	B	24.4	PV A 1.4s 23.2nm M = 5.1
				LmH B 12.5 3.4/um 5.9
				LmV B 13 4.5/um 6.1
24.	e(P)	A	10 27 32	Southern Iran 28.11 N 56.47 E
				H = 10 19 47.0 h = 10 km (CSEM)
				D = 40.6
24.	eP	A	10 34 42	Kurile Islands 47.21 N 152.53 E
				H = 10 23 00.2 h = 100 km MB = 4.5
				D = 76.87 Az = 336 (NEIS)
24.	eP	A	13 27 38	Greenland Sea 73.10 N 5.86 E
				H = 13 22 37.0 h = 33 km MB = 4.6
				D = 22.67 Az = 170 (NEIS)
				PV A 1.4s 25.6nm M = 4.5

Day	Phase		h m s	Remarks
24.	eP	A	19 19 29.5	Caspian Sea 41.46 N 50.94 E
				H = 19 13 35.4 h = 33 km MB = 4.8
				D = 28.50 Az = 302 (NEIS)
				PV A 1.2s 16.3nm M = 4.6
24.	eP	A	23 25 22	North Atlantic Ocean 60.05 N 29.58 W
				H = 23 20 01.3 h = 33 km MB = 4.4
				D = 24.85 Az = 94 (NEIS)
25.	eP	A	00 32 47	North Atlantic Ocean 59.83 N 29.99 W
	LmV	B	43.5	H = 00 27 24.4 h = 33 km MB=4.7 MS=4.2
	LmH	B	43.6	D = 25.04 Az = 93 (NEIS)
				PV A 1.6s 38.5nm M = 4.7
				LmH B 14 2.0/um 4.8
				LmV B 15 2.9/um 5.0
25.	eP	A	06 23 30	North Atlantic Ocean 59.91 N 29.94 W
	LmH	B	33.0	H = 06 18 07.6 h = 33 km MB=4.7 MS=4.5
	LmV	B	34.4	D = 25.02 Az = 93 (NEIS)
				PV A 1.3s 15.3nm M = 4.4
				LmH B 16 0.9/um 4.4
				LmV B 15 0.9/um 4.5
25.	eP	A	06 28 44	North Atlantic Ocean 60.30 N 29.60 W
				H = 06 23 23.0 h = 33 km MB = 4.2
				D = 24.88 Az = 94 (NEIS)
25.	ePKHKP	A	07 02 16.5	South of Fiji Islands 23.49 S 179.95 W
	ePKP2	A	02 27	H = 06 43 16.1 h = 464.3 km MB = 5.0
				D = 151.43 Az = 345 (NEIS)
25.	ePKP	A	15 25 24	Fiji Islands Region 17.34 S 176.73 W
				H = 15 06 23.7 h = 349.4 km MB = 4.9
				D = 146.10 Az = 350 (NEIS)
				traces
25.	ePKP	A	16 01 19	Tonga Islands 16.24 S 173.98 W
				H = 15 41 42.0 h = 33 km MB = 4.7
				D = 145.39 Az = 354 (NEIS)
				PKPV A 0.9s 23.3nm

Day	Phase		h m s	Remarks
25.	ePKIKP	A	21 06 32	Fiji Islands Region 20.48 S 177.83 W
	iPKHKP	A	06 36.5	H = 20 47 46.9 h = 522.1 km MB = 5.2
	ePKP2	A	06 42.5	D = 148.99 Az = 348 (NEIS)
				PKHKPV A 1.8s 94.5nm
				PKP2V A 1.5 30.2nm
25.	LmH	B	23 42.0	Southeast Indian Rise 47.57 S 99.92 E
	LmV	B	44.0	H = 22 21 41.1 h = 33 km MB=5.1 MS=5.8
				D = 123.69 Az = 310 (NEIS)
				LmH B 16.5s 0.8/um M = 5.5
				LmV B 17 1.0/um 5.5
26.	eP	A	05 04 39	Southern Iran 28.72 N 52.08 E
				H = 04 57 25.5 h = 28.5 km MB = 5.2
				D = 37.43 Az = 317 (NEIS)
				PV A 1.6s 38.5nm M = 5.0
27.	LmH	B	11 38.5	Santa Cruz Islands 10.90 S 165.90 E
	LmV	B	39.4	H = 10 17 56.2 h = 57 km MB = 5.3 (ISC)
				D = 135.1
				LmV B 20s 0.45/um
27.	ePKHKP	A	15 28 44.5	South of Fiji Islands 23.30 S 179.86 W
	ePKP2	A	28 55.5	H = 15 09 46.9 h = 477.9 km MB = 5.0
	epPKP	A	30 56.5	D = 151.27 Az = 345 (NEIS)
				PKHKPV A 1.8s 33.8nm
27.	LmH	B	17 06.5	South of Fiji 23.37 S 179.82 W
	LmV	B	06.6	H = 15 09 48.4 h = 502 km MB = 4.9 (ISC)
				D = 151.3
				LmH B 17s 0.25/um
				LmV B 18 0.45/um
28.	ePKP	A	02 32 55.5	Fiji Islands Region 17.92 S 178.41 W
				H = 02 14 20.8 h = 604.7 km MB = 4.9
				D = 146.38 Az = 348 (NEIS)
				PKPV A 1.2s 20.3nm

Day	Phase		h m s	Remarks
28.	ePKHKP	A	02 47 47	Easter Island Cordillera
				54.2 S 120.4 W
				H = 02 27 56.5 h = 33 km MB = 4.8
				D = 150.96 Az = 77 (ISC)
				PKHKPV A 1.6s 16.5nm
28.	iPKIKP	A	08 17 17	Bismarck Sea 4.56 S 149.89 E
	LmV	C	09 10.0	H = 07 59 19.7 h = 521.4 km MB = 5.6
				D = 122.32 Az = 330 (NEIS)
				PKIKPV A 1.3s 52.4nm
28.	eP	A	23 19 14	Kurile Islands 43.43 N 146.77 E
				H = 23 07 16.7 h = 47.7 km MB = 4.8
				D = 78.50 Az = 333 (NEIS)
				traces
29.	ePKIKP	AB	06 52 37	Kermadec Islands Region 28.20 S 176.88 W
	ePKHKP	A	52 49	H = 06 32 49.0 h = 61.6 km MB=5.3 MS=6.1
	ePKP2	AB	53 07.5	D = 156.67 Az = 346 (NEIS)
	eiPP	AB	56 44	PKIKPV A 2.9s 142.0nm
	eSKSP	C	07 07 08	PKIKPV B 11 0.8/um
	eSS	C	16 28	PPV B 10 1.6/um M = 7.0
	LmH	B	08 10.6	LmH B 18 2.5/um
	LmV	B	10.8	LmV B 18 3.8/um
29.	ePKHKP	A	08 30 30	South of Fiji Islands 22.28 S 179.59 W
	ePKP2	A	30 39	H = 08 11 44.0 h = 595.8 km MB = 4.9
				D = 150.36 Az = 346 (NEIS)
				PKHKPV A 1.1s 28.2nm
				PKP2V A 1.2 20.3nm
29.	LmH	B	14 35.1	Balleny Islands Region 62.72 S 166.8 E
	LmV	B	36.0	H = 12 54 58.0 h = 16 km (ISC)
				D = 162.0
				LmH B 20s 0.5/um M = 5.2
				LmV B 19 0.5/um 5.4

Day	Phase		h m s	Remarks
29.	eP	AB	22 23 18	Turkey 40.89 N 42.86 E
	eS	B	27 38	H = 22 18 09.1 h = 43.6 km MB=5.0 MS=5.5
	LmV	B	34.4	D = 23.72 Az = 305 (NEIS)
	LmH	B	34.9	PV A 1.5s 50.2nm M = 4.8
				PV B 6 0.5/um 5.2
				SH B 11 1.3/um 5.2
				LmH B 12 3.2/um 5.0
				LmV B 11 2.6/um 5.1
29.	eP	A	23 28 29	Turkey - USSR Border Region
				40.98 N 42.87 E
				H = 23 23 15.7 h = 10.8 km MB = 4.8
				D = 23.68 Az = 305 (NEIS)
30.	ePKIKP	AB	15 42 43	Kermadec Islands Region 28.23 S 176.61 W
	ePKP2	A	43 13	H = 15 22 50.8 h = 33 km MB=5.1 MS=5.3
	ePP	B	46 48	D = 156.76 Az = 347 (NEIS)
	eSS	C	16 06 40	LmH B 18s 0.7/um M = 5.4
	LmH	B	17 01.0	LmV B 18 0.6/um 5.4
	LmV	B	01.6	
30.	ePKHKP	A	16 03 45	Fiji Region 19.96 S 178.19 W
				H = 15 45 03.7 h = 604 km
				D = 148.41 Az = 348 (ISC)
30.	eP	A	16 13 29	Southern Greece 36.18 N 24.64 E
				H = 16 09 32.8 h = 116.4 km MB = 4.6
				D = 17.24 Az = 331 (NEIS)

Day	Phase		h m s	Remarks
1.	eP	A	05 13 30	Sicily 37.84 N 15.03 E
	eX	A	13 43	H = 05 10 25.1 h = 38.2 km MB = 4.4
	LmH	B	19.6	D = 13.03 Az = 350 (NEIS)
	LmV	B	19.6	XV A 1.4s 27.9nm
				LmH B 15 0.7/um M = 3.8
				LmV B 14 1.0/um
1.	eP	A	07 30 37	Turkey 37.12 N 27.72 E
				H = 07 26 27.0 h = 33 km MB = 4.3
				D = 17.77 Az = 325 (NEIS)
1.	eP	A	16 37 56	Iran - USSR Border Region 36.39 N 59.21 E
				H = 16 30 48.0 h = 15.4 km MB = 3.7
				D = 36.68 Az = 308 (NEIS)
1.	eP	A	19 46 13.5	Hokkaido, Japan Region 41.84 N 142.13 E
	e	A	46 35.5	H = 19 34 19.5 h = 68.7 km MB = 5.0
	e	A	46 51.5	D = 78.26 Az = 330 (NEIS)
				PV A 1.0s 15.8nm M = 4.9
2.	eP	A	07 30 22	Luzon, Philippine Islands
				13.45 N 122.21 E
				H = 07 17 12.1 h = 28.5 km MB = 5.1
				D = 92.28 Az = 323 (NEIS)
				PV A 1.2s 12.2nm M = 5.2
2.	ePKHKP	A	16 06 09.5	South of Fiji Islands 23.32 S 177.22 W
	epPKP	A	07 01	H = 15 46 36.4 h = 193 km MB = 5.4
				D = 151.87 Az = 348 (NEIS)
				h c. 200 km
				PKHKPV A 1.3s 39.4 nm
2.	eP	A	17 04 28	Southern Iran 28.19 N 53.29 E
				H = 16 57 05.3 h = 46.4 km MB = 4.6
				D = 38.55 Az = 317 (NEIS)
2.	ePKIKP	A	17 45 38.5	New Britain Region 5.25 S 150.67 E
	e	A	46 50	H = 17 27 01.9 h = 183.1 km MB = 5.4
				D = 123.29 Az = 330 (NEIS)

Day	Phase		h m s	Remarks
cont.				
2.	LmH	C	18 31.0	LmH C 20s 0.3/um
	LmV	C	33.0	LmV C 25 0.3/um
3.	+ePKHKP	A	14 11 16	Tonga Islands 21.04 S 174.14 W
	e	A	11 20.5	H = 13 51 25.9 h = 33 km MB=5.1 MS=4.8
	e	A	11 26.5	D = 150.11 Az = 353 (NEIS)
	LmH	C	15 21.5	PKHKPV A 1.6s 38.5nm
	LmV	C	24.4	LmH C 19 0.25/um M = 5.0
				LmV C 20 0.35/um 5.1
3.	LmH	C	17 12.5	Kermadec Islands Region 29.16 S 176.5 W
	LmV	C	13.6	H = 15 31 52 h = 29 km (ISC)
				D = 157.6
				LmH C 18s 0.25/um M = 5.0
				LmV C 20 0.35/um 5.2
4.	eP	A	04 19 22	Central Mid-Atlantic Ridge
	e	A	19 28	8.09 N 38.03 W
	LmV	C	37.6	H = 04 09 23.2 h = 33 km MB=5.1 MS=5.0
	LmH	C	39.7	D = 58.93 Az = 35 (NEIS)
				PV A 2.5s 92.2nm M = 5.4
				LmH C 19 0.3/um 4.4
				LmV C 36 0.35/um 4.3
4.	eP	A	04 50 45	Central Mid-Atlantic Ridge
	eS	C	58 50	7.99 N 38.02 W
	LmH	B	05 15.5	H = 04 40 46.5 h = 33 km MB=5.5 MS=5.5
	LmV	B	15.6	D = 59.01 Az = 34 (NEIS)
				PV A 1.8s 135.1nm M = 5.7
				LmH B 19 1.1/um 5.0
				LmV B 17.5 1.3/um 5.2
4.	e	A	06 24 37	
4.	ePKIKP	A	08 49 50	Tonga Islands 21.93 S 175.03 W
	ePKHKP	A	49 56	H = 08 30 07.1 h = 54 km MB=5.1 MS=5.5
				D = 150.87 Az = 351 (NEIS)
				PKHKPV A 1.8s 81.1nm

Day	Phase		h m s	Remarks
4.	ePKIKP	A	08 49 50	Tonga Islands 21.93 S 175.03 W
	ePKHKP	A	49 56	H = 08 30 07.1 h = 54 km MB=5.1 MS=5.5
				D = 150.87 Az = 351 (NEIS)
				PKHKPV A 1.8s 81.1nm
4.	eP	A	08 56 05	Honduras 13.08 N 87.57 W
				H = 08 43 27.3 h = 33 km MB = 5.3
				D = 85.74 Az = 39 (NEIS)
				PV A 1.8s 60.8 nm M = 5.5
4.	ePKIKP	A	10 01 18	Santa Cruz Islands 11.86 S 166.54 E
				H = 09 42 13.4 h = 170 km MB = 4.8
				D = 136.22 Az = 337 (NEIS)
4.	ePKIKP	AB	14 16 28	South Island, New Zealand
	ePKP2	AB	17 18	44.64 S 167.57 E
	ePP	B	21 06	H = 13 56 29.9 h = 18.8 km MB=6.0 MS=6.6
	ePPP	B	24 40	D = 162.76 Az = 299 (NEIS)
	eSKSP	B	31 48	PKIKPV A 2.4s 69.1nm
	ePSPS	B	43 12	PKIKPV B 11 1.8/um
	eSSS	B	48 35	PPV B 11 2.5/um M = 6.2
	LmH	B	15 40.7	LmH B 19 6.9/um 6.4
	LmV	B	40.8	LmV B 19 7.4/um 6.5
4.	ePKHKP	A	17 46 25	Tonga Islands Region 23.77 S 175.55 W
	ePP	B	50 08	H = 17 26 31.9 h = 39.5 km MB=5.2 MS=5.8
	eSS	C	18 09 40	D = 152.60 Az = 350 (NEIS)
	LmH	B	58.9	PPV B 8s 0.6/um M = 5.8
	LmV	B	59.2	LmH B 20 1.2/um 5.6
				LmV B 20 2.0/um 5.9
5.	+ePKIKP	A	05 12 44	Kermadec Islands 29.93 S 177.84 W
	ePKHKP	A	12 58.5	H = 04 52 51.0 h = 35.2 km MB=6.2 MS=6.8
	ePKP2	AB	13 21.5	D = 158.13 Az = 344 (NEIS)
	ePP	B	16 55	PKIKPV A 3.4s 559.7nm
	eSKSP	B	27 15	PKHKPV A 2.0 393.2nm
	eSS	B	37 00	PKP2V A 1.4 311.6nm
	LmV	B	06 33.1	PPV B 16 7.1/um M = 6.5
	LmH	B	35.0	LmH B 20 15.7/um 6.7
				LmV B 20 30.8/um 6.7

Day	Phase		h m s	Remarks
5.	e(Pg)	A	06 11 43	Northern Italy 44.40 N 9.49 E
	e(Sn)	A	12 26	H = 06 09 31.6 h = 10 km (CSEM)
	eSg	A	12 55	D = 6.45
5.	eP	A	16 33 03.5	Ryukyu Islands Region 23.34 N 126.17 E
	LmH	B	17 10.4	H = 16 20 19.1 h = 14.5 km MB = 5.0
	LmV	B	17.1	D = 86.53 Az = 325 (NEIS)
				PV A 1.8s 13.5nm M = 4.9
				LmH B 17 0.5/um 5.0
				LmV B 16 0.5/um 5.1
5.	ePKP2	A	23 09 56.5	Kermadec Islands 30.05 S 177.72 W
				H = 22 49 28.7 h = 48 km MB=5.3 (NEIS)
				D = 158.3
6.	ePKP2	A	00 50 53	Kermadec Islands 30.2 S 177.8 W
				H = 00 30 34 h = 109 km
				D = 158.42 Az = 343 (ISC)
6.	eP	A	01 27 16	Arabian Sea 17.09 N 59.98 E
				H = 01 18 15.0 h = 33 km MB = 4.9
				D = 50.97 Az = 322 (NEIS)
6.	eP	A	08 30 41	Tibet - India Border Region
				31.79 N 78.67 E
				H = 08 21 35.4 h = 50.8 km MB = 4.5
				D = 52.0 Az = 312 (NEIS)
6.	eP	A	18 03 15.5	Crete 34.69 N 23.86 E
	LmH	B	11.6	H = 17 59 02.6 h = 46 km MB = 4.7
	LmV	B	11.8	D = 18.27 Az = 334 (NEIS)
				PV A 1.2s 34.6nm M = 4.4
				LmH B 11 0.5/um 4.1
				LmV B 12.5 0.6/um 4.2
6.	iPn	A	20 00 15	Austria 46.20 N 13.26 E
				H = 19 59 06.7 h = 33 km MB = 4.5
				D = 4.58 Az = 347 (NEIS)

Day	Phase		h m s	Remarks
6.	+iPn	AB	20 01 22.5	Austria 46.36 N 13.28 E
	LmH	B	03.2	H = 20 00 11.6 h = 8.6 km MB=6.0 MS=6.5
				D = 4.43 Az = 346 (NEIS)
				Pn off scale
				LmH B 5s 1080.0/um M = 6.7
6.	i(Pn)	A	20 10 25	D c. 4.5
	i(Sn)	A	11 16	
	i(Sg)	A	11 40	
6.	iPn	A	20 26 08	Austria 46.33 N 13.05 E
	iSn	A	26 59	H = 20 25 02.7 h = 33 km MB = 4.4
	iSg	A	27 22	D = 4.42 Az = 348 (NEIS)
6.	iPn	A	20 30 30	Austria 46.31 N 13.21 E
	eSn	A	31 20.5	H = 20 29 20.7 h = 0 km
	eSg	A	31 45.5	D = 4.46 Az = 347 (ISC)
6.	ePn	A	20 41 03	Austria 46.3 N 12.8 E
	eSn	A	41 56	H = 20 39 57 h = 0 km
	eSg	A	42 22	D = 4.40 Az = 350 (ISC)
6.	iPn	A	20 46 17.5	Austria 46.27 N 13.26 E
	eSn	A	47 08	H = 20 45 10.5 h = 33 km
	eSg	A	47 36	D = 4.51 Az = 347 (NEIS)
6.	ePn	A	20 49 12	Austria 46.31 N 13.3 E
	eSn	A	50 03.5	H = 20 48 04 h = 0 km
	eSg	A	50 27	D = 4.48 Az = 347 (ISC)
6.	ePn	A	20 51 19	Austria 46.2 N 12.8 E
	eSg	A	52 34	H = 20 50 12 h = 0 km
				D = 4.51 Az = 351 (ISC)
6.	iPn	A	21 08 26	Austria 46.2 N 13.2 E
				H = 21 07 24 (CSEM)
				D = 4.57

Day	Phase		h m s	Remarks
6.	iPn	A	21 08 50	Austria 46.22 N 13.06 E
	ePg	A	09 09.5	H = 21 07 42.1 h = 33 km MB = 4.6
	iSn	A	09 41	D = 4.53 Az = 348 (NEIS)
	iSg	A	10 02	PnV A 0.8s 111.5nm
				PgV A 0.7 191.6nm
				SnV A 0.7 356.3nm
				SgV A 1.0 787.4nm
6.	iPn	A	21 16 15.5	Austria 46.29 N 13.5 E
	iSn	A	17 07	H = 21 15 04.2
	iSg	A	17 32	D = 4.53 Az = 345 (ISC)
6.	ePn	A	21 32 50	Austria 47.5 N 11.8 E
	e	A	33 09	H = 21 31 58 h = 0 km
	eSg	A	33 41	D = 3.10 Az = 357 (ISC)
	e	A	34 04	
6.	iPn	A	21 43 23.3	Austria 46.25 N 13.33 E
	iPg	A	43 48	H = 21 42 15.6 h = 33 km MB = 3.6
	iSn	A	44 14.8	D = 4.55 Az = 346 (NEIS)
	iSg	A	44 37.5	PnV A 0.6s 61.3nm
				SnV A 0.7 103.4nm
				SgV A 0.9 330.7nm
6.	iPn	A	21 50 50	Austria 46.21 N 13.19 E
	iSn	A	51 41.5	H = 21 49 42.8 h = 33 km MB = 4.0
	iSg	AB	52 07	D = 4.56 Az = 347 (NEIS)
	LmH	B	52.4	LmH B 8s 1.9/um M = 3.8
6.	ePn	A	21 56 27.5	Northern Italy 46.0 N 13.0 E
	eSn	A	57 15	H = 21 55 12
	eSg	A	57 40	D = 4.75 Az = 350 (ISC)
6.	iPn	A	22 11 42	Northern Italy 45.9 N 13.0 E
	iSn	A	12 35	H = 22 10 30 h = 0 km
	iSg	A	12 58	D = 4.88 Az = 349 (ISC)

Day	Phase		h m s	Remarks
6.	iPn	A	22 14 51.5	Austria 46.26 N 13.20 E
				H = 22 13 40.9 h = 0 km
				D = 4.52 Az = 347 (ISC)
6.	iPn	A	22 15 41.3	Northern Italy 46.39 N 12.94 E
	ePg	A	16 01	H = 22 14 33.9 h = 0 km
	eSn	A	16 32	D = 4.35 Az = 349 (ISC)
	iSg	A	16 55	PnV A 0.7s 28.7nm
				SgV A 1.3 100.4nm
6.	eiPn	A	22 21 51	Austria 46.29 N 13.24 E
	iPg	A	22 14	H = 22 20 43.8 h = 33 km
	eSn	A	22 42	D = 4.49 Az = 347 (NEIS)
	iSg	A	23 06	
6.	ePn	A	22 34 04	Austria 46.26 N 13.11 E
	ePg	A	34 23.5	H = 22 32 56.6 h = 33 km
	iSn	A	34 53	D = 4.50 Az = 348 (NEIS)
	eSg	A	35 18	SgV A 1.1s 24.2nm
6.	ePn	A	22 47 25	Northern Italy 46.9 N 12.3 E
	e(Sn)	A	48 15	H = 22 46 26 h = 0 km
	eSg	A	48 40	D = 3.80 Az = 353 (ISC)
6.	ePn	A	22 51 57.5	Austria 46.51 N 13.12 E
	eSn	A	52 49	H = 22 50 54.5 h = 98 km
	eSg	A	53 13	D = 4.26 Az = 347 (ISC)
				PnV A 0.7s 19.2nm
6.	e(Sg)	A	22 58 36	Northern Italy 46.9 N 12.4 E
				H = 22 56 21 h = 0 km (ISC)
				D = 3.8
6.	iPn	A	23 05 29.5	Austria 47.18 N 12.90 E
	iPg	A	05 39.5	H = 23 04 38.3 h = 33 km
	iSn	A	06 07	D = 3.57 Az = 347 (NEIS)
	eiSg	A	06 23	

Day	Phase		h m s	Remarks
6.	iP	A	23 08 12	Austria 46.24 N 13.20 E
	ePg	A	08 34	H = 23 07 04.9 h = 48.7 km
	eSn	A	09 04	D = 4.53 Az = 347 (NEIS)
	iSg	A	09 27	PnV A 0.5s 46.2nm
				PgV A 0.8 69.2nm
				SnV A 0.7 76.6nm
				SgV A 0.9 381.3nm
6.	iPn	A	23 11 12	Northern Italy 46.48 N 12.65 E
	eSn	A	12 03	H = 23 10 07.5 h = 33 km
	eSg	A	12 27	D = 4.22 Az = 351 (NEIS)
				SgV A 1.2s 44.7nm
6.	ePn	A	23 34 38	Austria 46.43 N 13.33 E
	eSn	A	35 29	H = 23 33 29.3 h = 0 km
	eSg	A	35(59)	D = 4.37 Az = 346 (ISC)
				SnV A 1.0s 9.8nm
				SgV A 1.0 21.7nm
6.	ePn	A	23 37 18	Austria 46.2 N 13.2 E
	eSn	A	38 09	H = 23 36 12
	eSg	A	38 37	D = 4.57 Az = 347 (ISC)
				Pn, Sn traces
6.	ePn	A	23 56 44	Austria 46.1 N 13.1 E
	eSn	A	57 36	H = 23 55 33 h = 0 km
	eSg	A	58 02	D = 4.68 Az = 348 (ISC)
				SgV A 0.9s 27.2nm
7.	iPn	A	00 15 52.5	Northern Italy 45.81 N 13.60 E
	eSn	A	16 43	H = 00 14 39.2 h = 33 km
	eSg	A	17 07.5	D = 5.01 Az = 345 (NEIS)
				SnV A 1.0s 39.4nm
				SgV A 1.2 40.7nm
7.	+iPn	A	00 24 58.8	Austria 46.17 N 13.31 E
	eiSn	B	25 51	H = 00 23 50.4 h = 33 km MP=4.7 (NEIS)
	eiSg	B	26 13	D = 4.11

Day	Phase		h m s	Remarks
cont. 7.	LmH	B	00 26.9	PnV A 0.7s 459.8nm
				PgV A 0.7 632.2nm
				SnV A 0.9 894.9nm
				SgV A off scale
				LmH B 8s 19.5/um M = 4.7
7.	ePn	A	00 43 38	D c. 4.5
	eSn	A	44 31	
	eSg	A	44 54.5	
7.	ePn	A	00 50 45	Northern Italy 45.9 N 13.0 E
	eSg	A	52 02	H = 00 49 33 h = 0 km
				D = 4.87 Az = 350 (ISC)
7.	iPn	A	00 52 55.3	Northern Italy 46.53 N 12.84 E
	ePg	A	53 21	H = 00 51 52.8 h = 33 km
	iSn	A	53 46.5	D = 4.20 Az = 349 (NEIS)
	eSg	A	54 19	SnV A 0.9s 35.0nm
				SgV A 1.2 48.8nm
7.	iPn	A	01 01 32.8	Austria 46.21 N 13.27 E
	ePg	A	01 53	H = 01 00 25.8 h = 33 km
	iSn	A	02 24	D = 4.57 Az = 347 (NEIS)
	eSg	A	02 45	PnV A 0.5s 50.0nm
				PgV A 0.9 31.1nm
				SnV A 1.3 48.0nm
				SgV A 1.4 65.1nm
7.	ePn	A	01 13 00	Austria 46.20 N 13.13 E
	e	A	13 20	H = 01 11 50.0 h = 0 km
	iSn	A	13 50	D = 4.56 Az = 348 (ISC)
	eSg	A	14 15	SnV A 0.5s 23.1nm
				SgV A 1.2 32.5nm
7.	iPn	A	01 21 41.8	Austria 46.26 N 13.6 E
	iSn	A	22 34	H = 01 20 30.8 h = 0 km
	eSg	A	22 57	D = 4.58 Az = 344 (ISC)
				SgV A 1.0s 15.7nm

Day	Phase		h m s	Remarks
7.	iPn	A	01 33 55.8	Austria 46.2 N 13.3 E
	eSn	A	34 58.5	H = 01 32 46 h = 0 km
	e	A	35 12	D = 4.59 Az = 347 (ISC)
7.	ePn	A	02 06 28	Austria 46.28 N 13.19 E
	ePg	A	06 53	H = 02 05 18.3 h = 0 km
	eSn	A	07 19	D = 4.49 Az = 347 (ISC)
	eSg	A	07 43	SgV A 1.2s 24.4nm
7.	ePn	A	02 25 56	D c. 4.5
	eSn	A	26 45	Pn traces
	eSg	A	27 10	
7.	e(Sn)	A	02 50 37.5	D c. 4.5
	e(Sg)	A	51 07	
7.	e(P)	A	04 23 15	Andreanof Islands, Aleutian Is.
	e(pP)	A	23 28	51.81 N 173.00 W
				H = 04 11 22.6 h = 54.6 km MB = 4.3
				D = 77.84 Az = 357 (NEIS)
				h = 50 km
7.	ePn	A	04 33 16	D c. 4.5
	eSg	A	34 31	
7.	eP	A	05 23 55	Peru - Brazil Border Region
				8.62 S 74.72 W
				H = 05 10 49.3 h = 133.3 km MB = 5.3
				D = 94.28 Az = 40 (NEIS)
				PV A 2.0s 34.2nm M = 5.3
7.	eiPn	A	05 41 28.5	Austria 46.34 N 12.96 E
	iSn	A	42 18.5	H = 05 40 23.2 h = 33 km
	eSg	A	42 43	D = 4.40 Az = 349 (NEIS)
				PnV A 0.6s 28.7nm
				SnV A 0.7 26.8nm
				SgV A 1.2 40.7nm

Day	Phase		h m s	Remarks
7.	iPn	A	06 03 14	Austria 46.34 N 13.25 E
	iPg	A	03 37	H = 06 02 06.9 h = 33 km
	iSn	A	04 05	D = 4.44 Az = 346 (NEIS)
	iSg	A	04 30	PnV A 0.6s 23.0nm
				PgV A 0.8 42.3nm
				SnV A 0.8 38.5nm
				SgV A 0.9 202.3nm
7.	e(Sn)	A	06 38 08	D c. 4.5
	e(Sg)	A	38 34	
7.	iPn	A	06 40 39.7	Austria 46.26 N 13.13 E
	e	A	40 56	H = 06 39 33.2 h = 33 km
	eSn	A	41 31	D = 4.50 Az = 348 (NEIS)
	eiSg	A	41 55.5	PnV A 0.5s 32.7nm
				SgV A 0.8 111.5nm
7.	e(Sn)	A	06 52 31	D c. 4.5
	e(Sg)	A	52 56	
7.	ePn	A	07 21 04	Austria 46.2 N 13.2 E
				H = 07 19 42 (CSEM)
				D = 4.57
				SgV A 1.0s 25.6nm
7.	iPn	A	07 38 12.2	Austria 46.27 N 13.25 E
	iPg	A	38 33	H = 07 37 01.4 h = 0 km
	iSn	A	39 03.5	D = 4.51 Az = 347 (ISC)
	eSg	A	39 27	SnV A 0.5s 26.9nm
				SgV A 0.7 53.6nm
7.	iPn	A	08 00 02.5	Austria 46.40 N 13.5 E
	e	A	00 08	H = 07 58 57 h = 0 km
	iPg	A	00 20	D = 4.44 Az = 344 (ISC)
	iSn	A	00 50	PgV A 0.5s 17.3nm
	eSg	A	01 25	SgV A 0.9 29.2nm

Day	Phase		h m s	Remarks
7.	eiPn	A	09 42 24.2	Northern Italy 46.35 N 12.95 E
	ePg	A	42 43.5	H = 09 41 19.0 h = 33 km MB = 5.9
	iSn	A	43 12.3	D = 4.39 Az = 349 (NEIS)
	iSg	A	43 34	PnV A 0.5s 50.0nm
				PgV A 0.6 80.5nm
				SnV A 0.5 88.5nm
				SgV A 0.9 439.7nm
7.	e(Sn)	A	09 59 41.5	D c. 4.5
	e(Sg)	A	10 00 07	
7.	eSn	A	10 05 27	Austria 46.1 N 13.1 E
	eSg	A	05 53	H = 10 03 27 (ISC)
				D = 4.7
7.	eSn	A	10 14 41.5	Austria 46.2 N 13.2 E
	eSg	A	15 07	H = 10 12 42 h = 0 km (ISC)
				D = 4.6
7.	iPn	A	11 16 39.3	Northern Italy 46.52 N 12.94 E
	ePg	A	16 59.5	H = 11 15 36.1 h = 33 km
	iSn	A	17 30.5	D = 4.22 Az = 348 (NEIS)
	eSg	A	17 54.5	PnV A 0.6s 19.2nm
				SgV A 0.9 35.0nm
7.	ePn	A	11 45 43	Austria 46.1 N 13.1 E
	eSn	A	46 34.5	H = 11 44 33 h = 0 km
	iSg	A	46 59	D = 4.63 Az = 348 (ISC)
7.	iPn	A	12 42 51.8	Austria 46.16 N 13.38 E
	eSn	A	43 42.5	H = 12 41 43.2 h = 33 km
	eSg	A	44 06.5	D = 4.64 Az = 346 (NEIS)
				SnV A 0.7s 19.2nm
				SgV A 0.6 30.7nm
7.	iP	A	13 43 57.3	Austria 46.23 N 13.17 E
	ePg	A	44 16	H = 13 42 50.6 h = 33 km
	eSn	A	44 48	D = 4.54 Az = 347 (NEIS)

Day	Phase		h m s	Remarks
cont. 7.	eSg	A	13 45 11	PnV A 0.5s 61.5nm
				SgV A 0.9 369.6nm
7.	ePn	A	13 45 25	Austria 46.05 N 13.3 E
	iSn	A	46 16	H = 13 44 16.8 h = 15 km
	eSg	A	46 38.5	D = 4.73 Az = 347 (ISC)
				SgV A 0.8s 126.9nm
7.	ePKHKP	A	14 24 44	Tonga Islands Region 23.92 S 175.62 W
	ePKP2	A	24 54	H = 14 04 48.8 h = 33 km MB = 5.0
				D = 152.74 Az = 350 (NEIS)
7.	iPn	A	15 55 49.3	Austria 46.17 N 13.29 E
	iSn	A	56 39	H = 15 54 40.9 h = 33 km
	eSg	A	57 03	D = 4.62 Az = 347 (NEIS)
				SnV A 0.5s 46.2nm
				SgV A 1.1 56.5nm
7.	ePg	A	18 35 14	Austria 46.32 N 13.17 E
	eSn	A	35 51	H = 18 33 51.5 h = 0 km
	eSg	A	36 14	D = 4.45 Az = 347 (ISC)
7.	ePg	A	19 14 53	Austria 46.32 N 13.45 E
				H = 19 12 27.7 h = 0 km (ISC)
				D = 4.5
7.	LmH	B	19 31.0	Near Coast of Northern Chile
	LmV	B	33.5	27.98 S 71.28 W
				H = 18 27 39.7 h = 33 km MB=5.3 (ISC)
				D = 106.8
				LmH B 18s 0.5/um M = 5.1
				LmV B 18 0.5/um 5.1
7.	iPn	A	20 13 58.5	Austria 46.36 N 13.02 E
	ePg	A	14 18.5	H = 20 12 53.3 h = 33 km
	iSn	A	14 48	D = 4.39 Az = 348 (NEIS)
	iSg	A	15 10	PnV A 0.6s 32.6nm
				PgV A 0.8 30.8nm
				SnV A 0.8 30.8nm
				SgV A 0.9 179.0nm

Day	Phase		h m s	Remarks
7.	iPn	A	20 53 44	Austria 46.56 N 13.06 E
	iSn	A	54 35	H = 20 52 40.9 h = 33 km
	iSg	A	54 57.5	D = 4.20 Az = 347 (NEIS)
				PnV A 0.5s 11.5nm
				SnV A 0.6 23.0nm
				SgV A 0.8 51.9nm
7.	ePKP	A	23 23 40	Tonga 15.23 S 173.47 W
				H = 23 04 06.5 h = 34 km MB = 4.9
				D = 144.44 Az = 354 (ISC)
8.	eP	AB	00 24 13	Norwegian Sea 72.29 N 1.34 E
	eS	C	28 18	H = 00 19 19.0 h = 33 km MB = 4.4
	LmH	B	34.2	D = 22.20 Az = 163 (NEIS)
	LmV	B	34.2	PV A 1.8s 74.4nm M = 4.8
				LmH B 15 0.6/um 4.1
				LmV B 14 0.7/um 4.4
8.	eSg	A	01 42 26.5	Northern Italy 46.1 N 13.0 E
				H = 01 39 59 h = 0 km (ISC)
				D = 4.65
8.	iPn	A	02 17 16.0	Northern Italy 46.60 N 12.91 E
	eiSn	A	18 09	H = 02 16 13.4 h = 33 km
	iSg	A	18 31	D = 4.14 Az = 349 (NEIS)
8.	iPn	A	02 20 10	Northern Italy 45.79 N 12.36 E
	ePg	A	20 32	H = 02 18 56.5 h = 33 km
	iSn	A	20 59.5	D = 4.89 Az = 354 (NEIS)
	eSg	A	21 24	
8.	iPn	A	03 11 14.5	Austria 46.21 N 13.27 E
	ePg	A	11 35	H = 03 10 06.9 h = 33 km
	iSn	A	12 05	D = 4.57 Az = 347 (NEIS)
	iSg	A	12 29	PnV A 0.6s 141.8nm
				PgV A 0.5 111.5nm
				SnV A 0.5 161.5nm
				SgV A 1.1 447.6nm

Day	Phase		h m s	Remarks
8.	ePn	A	04 13 03.5	D c. 4.5
	eSn	A	13 56	
	eSg	A	14 19.5	
8.	ePn	A	04 21 07	D c. 4.5
	eSn	A	21 59	
	eSg	A	22 25	
8.	ePn	A	08 21 59.5	D c. 4.5
	eSn	A	22 52	
	eSg	A	23 17.5	
8.	ePn	A	09 57 33.5	Austria 46.37 N 13.00 E
	iPg	A	57 53.0	H = 09 56 28.6 h = 33 km
	eiSn	A	58 24	D = 4.38 Az = 348 (NEIS)
	eSg	A	58 45.5	PgV A 0.7s 32.6nm
				SgV A 1.1 68.5nm
8.	eP	A	11 36 31	Southern Alaska 61.66 N 151.56 W
				H = 11 25 37.3
				D = 67.24 Az = 12 (ISC)
8.	ePn	A	11 37 27	Austria 46.32 N 13.34 E
	iSn	A	38 20.5	H = 11 36 17.3 h = 0 km
	eSg	A	48 43	D = 4.48 Az = 346 (ISC)
				PnV A 0.9s 11.7nm
				SgV A 1.0 19.7nm
8.	ePn	A	11 41 44.5	Austria 46.40 N 13.08 E
	ePg	A	42 05.5	H = 11 40 39.2 h = 33 km
	iSn	A	42 36.5	D = 4.36 Az = 348 (NEIS)
	eSg	A	42 59	PgV A 0.6s 13.4nm
				SgV A 1.1 42.3nm
8.	iPn	A	13 33 35.0	Austria 46.43 N 13.15 E
	ePg	A	33 55	H = 13 32 29.4 h = 33 km
	iSn	A	34 26	D = 4.34 Az = 347 (NEIS)
	eSg	A	34 49	SgV A 0.9s 23.3nm

Day	Phase		h m s	Remarks
8.	iPn	A	15 56 39.5	D c. 4.5
	eSg	A	58 54.5	
8.	eiPn	A	20 41 39.5	Austria 46.54 N 12.99 E
	iSn	A	42 29.5	H = 20 40 36.8 h = 33 km
	iSg	A	42 54	D = 4.21 Az = 348 (NEIS)
				PnV A 0.7s 88.1nm
				SnV A 0.5 57.7nm
				SgV A 0.9 225.7nm
8.	ePn	A	22 09 57	Adriatic Sea 44.4 N 14.2 E
	e	A	10 47	H = 22 08 28 h = 235 km
				D = 6.54 Az = 345 (ISC)
8.	eP	A	23 29 02	Turkey 39.36 N 29.11 E
	LmH	B	34.7	H = 23 25 08.0 h = 36.2 km MB = 4.8
	LmV	B	34.8	D = 16.69 Az = 318 (NEIS)
				LmH B 17s 2.0/um M = 4.4
				LmV B 13 0.7/um 4.2
9.	+iPn	AB	00 54 53.7	Austria 46.24 N 13.32 E
	iPg	AB	55 13	H = 00 53 44.0 h = 14.2 km MB = 5.1
	iSn	AB	55 45	D = 4.55 Az = 346 (NEIS)
	iSg	B	56 08	PnV A 1.0s 787.4nm
	LmH	B	56.9	PgV A 0.9 1459.1nm
	LmV	B	56.9	SnV A 0.7 1666.7nm
				SgV A off scale
				LmH B 6.0 24.9/um M = 5.0
				LmV B 6.0 26.1/um
9.	ePn	A	03 40 34	Austria 46.27 N 13.19 E
	eSn	A	41 25	H = 03 39 26.9 h = 33 km
	eSg	A	41 48	D = 4.50 Az = 347 (NEIS)
9.	ePn	A	05 58 40	D c. 4.5
	eSn	A	59 30	
	eSg	A	59 56	

Day	Phase		h m s	Remarks
9.	ePn	A	06 04 57.5	Austria 46.37 N 13.3 E
	eSn	A	05 52	H = 06 03 48.2 h = 0 km
	eSg	A	06 12.5	D = 4.43 Az = 346 (ISC)
9.	LmH	B	06 25.8	West Irian 2.87 S 138.98 E
	LmV	B	25.8	H = 05 14 59.9 h = 57 km
				D = 115.10 Az = 326 (ISC)
				LmH B 20s 1.0/um
				LmV B 20 0.8/um
9.	eP	A	07 58 30	Uzbek SSR 40.34 N 63.93 E
	epP	A	58 33.5	H = 07 51 16.7 h = 17.7 km MB = 5.1
	ePP	A	59 52	D = 37.37 Az = 304 (NEIS)
	epPP	A	59 55	h = 17 km
	LmH	B	08 18.4	LmH B 12s 0.5/um M = 4.5
	LmV	B	18.5	LmV B 12 0.7/um 4.8
9.	eP	A	08 03 48	Southern Sumatra 2.68 S 101.74 E
	ePP	A	07 27.5	H = 07 50 47.0 h = 101.7 km MB = 5.0
				D = 92.13 Az = 320 (NEIS)
9.	iPn	A	12 34 37.5	Austria 46.18 N 13.17 E
	ePg	A	34 56	H = 12 33 29.9 h = 33 km
	iSn	A	35 30	D = 4.59 Az = 348 (NEIS)
	eSg	A	35 53	SgV A 1.1s 32.3nm
9.	ePKHKP	A	14 30 39.5	Tonga 20.4 S 173.3 W
	epPKP2	A	30 55	H = 14 10 52.3 h = 37 km MB = 4.4
				D = 149.56 Az = 354 (ISC)
9.	eP	A	15 05 16	Turkey 39.30 N 29.08 E
	LmH	B	13.1	H = 15 01 19.0 h = 26.9 km MB = 4.1
				D = 16.73 Az = 318 (NEIS)
9.	iPn	A	20 01 14	Austria 46.61 N 12.96 E
	iSn	A	02 04.5	H = 20 00 11.2 h = 33 km (NEIS)
	iSg	A	02 29	D = 4.1

Day	Phase		h m s	Remarks
9.	ePKIKP	A	21 03 48	Solomon Islands 7.45 S 154.63 E
	ePP	A	05 48	H = 20 44 44.7 h = 33.7 km MB = 5.8
				D = 127.13 Az = 331 (NEIS)
				PKIKPV A 1.4s 37.2nm
				PPV A 2.2 54.5nm M = 5.5
9.	ePKIKP	A	22 07 35	Solomon Islands 7.45 S 154.71 E
	e	A	08 52	H = 21 48 30.5 h = 26 km MB = 5.6
	ePP	A	09 35	D = 127.17 Az = 331 (NEIS)
10.	ePn	A	02 12 30	Austria 46.2 N 13.2 E
	eSg	A	13 22.5	H = 02 10 59 h = 0 km (ISC)
				D = 4.6
				SgV A 1.3s 32.8nm
10.	iPn	A	04 37 01.5	Austria 46.32 N 13.11 E
	ePg	A	37 19.5	H = 04 35 55.1 h = 31 km MB = 4.4
	eiSn	A	37 51	D = 4.45 Az = 348 (NEIS)
	eSg	A	38 16	PnV A 0.9s 194.6nm
	LmH	B	38.8	PgV A 0.8 307.7nm
	LmV	B	38.8	SnV A 1.0 590.6nm
				SgV A 1.0 1535.4nm
				LmH B 10 2.2/um M = 3.7
				LmV B 11 3.2/um
10.	iPn	A	05 09 59.5	Austria 46.33 N 13.09 E
	ePg	A	10 16.5	H = 05 08 53.8 h = 33 km
	iSn	A	10 50	D = 4.43 Az = 348 (NEIS)
	iSg	A	11 13	PnV A 0.6s 30.7nm
				PgV A 0.9 54.5nm
				SnV A 0.7 69.0nm
				SgV A 1.2 284.6nm
10.	eP	A	12 05 28	Turkey 39.33 N 29.08 E
	LmH	B	11.3	H = 12 01 32.5 h = 28.6 km MB = 4.4
	LmV	B	13.5	D = 16.71 Az = 318 (NEIS)
				LmH B 13s 0.45/um M = 3.9
				LmV B 11 0.55/um 4.2

Day	Phase		h m s	Remarks
10.	iPg	A	16 02 24	Probably explosion
	eiSg	A	02 38.5	D c. 1.0
	LmH	A	03 03	
	LmV	A	03 17	
10.	eP	A	18 53 27	Nepal 29.28 N 81.46 E
	LmH	B	19 19.5	H = 18 43 53.5 h = 33 km MB=5.2 MS=4.6
	LmV	B	19.6	D = 55.46 Az = 313 (NEIS)
				PV A 2.0s 68.5nm M = 5.3
				LmH B 14 0.8/um 5.0
				LmV B 14 1.1/um 5.1
10.	e(P)	A	23 58 09	Turkey 39.29 N 29.02 E
				H = 23 54 11.7 h = 39.3 km MB = 4.5
				D = 16.71 Az = 319 (NEIS)
11.	eiPn	A	05 33 06	Austria 46.19 N 13.06 E
	ePg	A	33(24,	H = 05 31 58.7 h = 33 km
	iSn	A	33 57.5	D = 4.56 Az = 348 (NEIS)
	eSg	A	34 20	PnV A 0.8s 34.6nm
				PgV A 0.9 54.5nm
				SnV A 1.0 108.3nm
				SgV A 1.1 233.9nm
11.	iPn	A	09 58 36.5	Northern Italy 46.51 N 12.90 E
	iSn	A	59 27	H = 09 57 32.4 h = 14.9 km MB = 4.7
	iSg	A	59 50	D = 4.23 Az = 349 (NEIS)
				PnV A 0.7s 17.2nm
				SnV A 0.6 23.0nm
				SgV A 1.3 61.1nm
11.	iPn	A	10 07 31.5	Austria 47.02 N 12.45 E
	eiSn	A	08 23	H = 10 06 35.3 h = 33 km
	eiSg	A	08 45	D = 3.67 Az = 352 (NEIS)
11.	ePKIKP	A	10 17 52	Solomon Islands 7.58 S 154.60 E
	ePP	A	19 53	H = 09 58 48.1 h = 33 km MB=5.7 MS=5.9
	eSS	C	37 00	D = 127.23 Az = 331 (NEIS)
	LmH	B	11 11.5	PKIKPV A 1.8s 60.8nm

Day	Phase		h m s	Remarks
cont. 11.	LmV	B	11 16.7	LmH B 20s 0.6/um M = 5.3
				LmV B 20 0.8/um 5.3
11.	ePKIKP	A	10 41 33.5	Solomon Islands 7.60 S 154.70 E
				H = 10 22 28.2 h = 22 km MB = 5.8
				D = 127.30 Az = 331 (NEIS)
				PKPV A 1.8s 30.4nm
11.	ePKHKP	A	11 48 49	South of Australia 51.51 S 139.68 E
	LmV	B	12 59.0	H = 11 29 06.2 h = 33 km MB=5.6 MS=6.1
	LmH	B	59.5	D = 147.92 Az = 289 (NEIS)
				PKHKPV A 1.2s 48.8nm
				LmH B 20 1.2/um M = 5.6
				LmV B 20 1.5/um 5.7
11.	ePKIKP	A	16 10 22	South of Australia 51.60 S 139.68 E
	ePKHKP	AB	10 25	H = 15 50 41.6 h = 33 km MB=5.8 MS=6.6
	ePKP2	A	10 30	D = 147.95 Az = 289 (NEIS)
11.	eP	A	17 03 11	Ionian Sea 37.56 N 20.35 E
	Pm	AB	03 40	H = 16 59 48.2 h = 33 km MB=5.8 MS=6.4
	iS	C	05 52	D = 14.49 Az = 337 (NEIS)
	LmH	B	08.7	PmV A 1.3s 873.4nm M = 6.5
	LmV	B	10.8	PmV B 6 5.0/um 6.6
				LmH B 18 236.9/um 6.3
				LmV B 14 95.2/um
11.	eP	A	17 30 40	Ionian Sea 37.33 N 20.46 E
				H = 17 10 10.6 h = 20.2 km MB = 5.3
				D = 14.74 Az = 337 (NEIS)
11.	e(P)	A	21 15 34	Ionian Sea 37.52 N 20.14 E
	e	A	15 44	H = 21 12 09.2 h = 33 km MB = 3.8
				D = 14.47 Az = 338 (NEIS)
				PV A traces
11.	eiPn	A	22 19 11.5	Austria 46.44 N 13.26 E
	eSn	A	20 01	H = 22 18 06.0 h = 129 km

Day	Phase		h m s	Remarks
cont. 11.	eSg	A	22 20 25.5	D = 4.35 Az = 346 (ISC)
				PnV A 0.5s 19.2nm
				SgV A 1.0 27.6nm
11.	+eiPn	AB	22 45 09	Austria 46.27 N 12.99 E
	iPg	B	45 28.5	H = 22 44 00.2 h = 10.7 km MB = 5.2
	iSn	B	46 00	D = 4.47 Az = 349 (NEIS)
	iSg	B	46 21.5	PnV A 1.1s 1028.2nm
	LmH	B	47.1	PgV A 1.0 1496.1nm
	LmV	B	47.1	SnV A 1.0 1968.5nm
				SgV A off scale
				LmH B 5.5 15.4/um M = 4.8
				LmV B 5.5 19.8/um
11.	iPn	A	22 58 53.4	Austria 46.13 N 13.46 E
	eSn	A	59 45	H = 22 57 41.0 h = 0 km
	eSg	A	23 00 11	D = 4.69 Az = 345 (ISC)
				SnV A 0.6s 24.9nm
				SgV A 1.2 28.5nm
11.	iPn	A	23 24 00	Northern Italy 46.32 N 12.94 E
	e	A	24 17.5	H = 23 22 54.5 h = 33 km
	e	A	24 24.5	D = 4.42 Az = 349 (NEIS)
	eiSn	A	24 51	SgV A 1.0s 94.5nm
	eiSg	A	25 16	
11.	iPn	A	23 37 52	Northern Italy 46.36 N 12.84 E
	e	A	38 09	H = 23 36 46.9 h = 33 km MB = 5.0
	ePg	A	38 16	D = 4.37 Az = 350 (NEIS)
	eSn	A	38 42	PnV A 0.9s 35.0nm
	eiSg	A	39 05.5	PgV A 1.0 45.3nm
				SnV A 0.8 76.9nm
				SgV A 1.1 286.3nm
12.	eSg	A	01 15 25	Poland 50.32 N 18.85 E
				H = 01 12 58.0 M = 3.1 (WAR)
				D = 4.65

Day	Phase		h m s	Remarks
12.	ePn	A	02 24 39.5	Austria 46.24 N 13.09 E
	eSg	A	25 54	H = 02 23 28.3 h = 0 km
				D = 4.52 Az = 348 (ISC)
12.	ePn	A	02 39 22.5	Austria 45.7 N 13.1 E
	e	A	39 40	H = 02 38 13
	ePg	A	39 44	D = 5.04 Az = 349 (ISC)
	e(Sn)	A	40 13.5	Pn traces
	eSb	A	40 38	SgV A 0.7s 19.2nm
12.	eiPn	A	03 02 24	Austria 46.50 N 12.97 E
	e	A	02 40	H = 03 01 20.6 h = 33 km MB = 4.4
	ePg	A	02 44.5	D = 4.24 Az = 348 (NEIS)
	iSn	A	03 15	PnV A 0.6s 17.2nm
	eSg	A	03 39	PgV A 1.0 35.4nm
				SnV A 0.9 44.7nm
				SgV A 1.2 85.4nm
12.	eP	A	05 15 37	Turkey 39.36 N 29.07 E
				H = 05 11 42.3 h = 21.3km MB = 4.3
				D = 16.68 Az = 318 (NEIS)
12.	eSg	A	06 19 54	Austria 46.2 N 13.2 E
				H = 06 17 30 (CSEM)
				D = 4.57 Az = 347
				SgV A 0.7s 17.2nm
12.	iPn	A	09 05 15.6	Austria 46.39 N 13.18 E
	e	A	05 32	H = 09 04 09.6 h = 33 km
	ePg	A	05 36	D = 4.39 Az = 347 (NEIS)
	eSn	A	06 06	PgV A 1.0s 31.5nm
	eSg	A	06 31	SnV A 0.9 29.2nm
				SgV A 0.7 46.0nm
12.	iPn	A	14 49 19.8	Austria 46.18 N 13.06 E
	eiSn	A	50 12	H = 14 48 09.8 h = 0 km
	eSg	A	50 35	D = 4.57 Az = 348 (ISC)

Day	Phase		h m s	Remarks
12.	eP	A	16 54 31.5	Northern Colombia 7.38 N 75.01 W
	epP	A	54 45	H = 16 42 15.1 h = 65.5 km MB = 5.1
				D = 82.21 Az = 40 (NEIS)
				h = 50 km
12.	iPn	A	18 08 02.3	Austria 46.43 N 13.02 E
	iPg	A	08 25.5	H = 18 06 58.1 h = 33 km
	iSn	A	08 55	D = 4.33 Az = 348 (NEIS)
	iSg	A	09 18	PnV A 0.5s 17.3nm
				PgV A 0.9 19.5nm
				SnV A 0.6 23.0nm
				SgV A 0.8 73.1nm
12.	eP	A	20 02 20	Southern Nevada 37.21 N 116.21 W
				Underground explosion
				H = 19 50 00.2 h = 0 km MB = 4.9
				D = 81.22 Az = 31 (NEIS)
12.	ePn	A	20 14(03)	Austria 46.0 N 13.0 E
	eSn	A	14 54	H = 20 12 53 h = 0 km
	eSg	A	15 18.5	D = 4.72 Az = 349 (ISC)
13.	eP	A	00 47 12	Greece - Albania Border Region
	LmH	B	52.8	39.72 N 20.32 E
	LmV	B	53.0	H = 00 44 15.0 h = 58.5 km MB = 4.6
				D = 12.52 Az = 334 (NEIS)
				PV A 0.9s 15.6nm M = 4.9
				LmH B 11 0.6/um
				LmV B 12 0.7/um
13.	ePKIKP	A	01 01 10	Solomon Islands 7.57 S 154.78 E
				H = 00 42 03 h = 7 km MB = 5.4
				D = 127.30 Az = 331 (ISC)
13.	ePn	A	03 16 22	Austria 46.57 N 13.08 E
	ePg	A	16 42	H = 03 15 19.2 h = 33 km
	eSn	A	17 12	D = 4.19 Az = 347 (NEIS)
	eSg	A	17 36	SgV A 1.3s 30.6nm

Day	Phase		h m s	Remarks
13.	eP	A	07 23 08.5	Queen Charlotte Islands Region
				53.11 N 132.10 W
				H = 07 11 44.0 h = 25.5 km MB = 4.8
				D = 72.19 Az = 23 (NEIS)
				PV A 1.1s 16.1nm M = 5.0
13.	iPn	A	13 05 59.2	Austria 46.15 N 13.09 E
	iPg	A	06 19.5	H = 13 04 51.0 h = 33 km MB = 4.8
	eiSn	A	06 50.5	D = 4.6 Az = 348 (NEIS)
	eiSg	AB	07 11	PnV A 0.9s 73.9nm
	LmV	B	07.8	PgV A 0.8 115.4nm
	LmH	B	07.9	SnV A 0.6 111.1nm
				SgV A 1.2 455.3nm
				LmH B 8 0.3/um M = 3.0
				LmV B 8 0.8/um
13.	eP	A	20 48 29	Southern Greece 36.84 N 21.39 E
				H = 20 44 52.5 h = 51.5 km MB = 4.7
				D = 15.48 Az = 336 (NEIS)
13.	eP	A	22 21 40	Ionian Sea 37.37 N 20.54 E
	LmH	C	27.0	H = 22 18 05.3 h = 52.3 km MB = 4.1
	LmV	C	28.8	D = 14.72 Az = 337 (NEIS)
				LmH C 18s 0.45/um
				LmV C 14 0.4/um
14.	eSg	A	00 52 02	Austria 46.26 N 13.4 E
				H = 00 49 33.6 h = 0 km
				D = 4.55 Az = 346 (ISC)
14.	eP	A	01 27 23.5	Turkey 37.84 N 29.44 E
				H = 01 23 13.0 h = 21.2 km MB = 4.1
				D = 18.03 Az = 321 (NEIS)
14.	e(Sn)	A	03 26 49	D c. 4.5
	eSg	A	27 13.5	

Day	Phase		h m s	Remarks
14.	eP1	A	06 35 39	North Atlantic Ridge 10.78 N 43.50 W
	eiP2	A	35 48	H = 06 25 34.4 h = 33 km MB=5.6 MS=5.7
	eS	EC	43 50	D = 59.93 Az = 37 (NEIS)
	eSS	C	47 45	P1V A 1.6s 115.4nm M = 5.7
	eSSS	C	50 30	P2V A 1.4 139.5nm 5.9
	LmH	B	58.6	SH B 18 2.6/um 5.8
	LmV	B	59.0	LmH B 19.5 4.7/um 5.6
				LmV B 18.5 4.8/um 5.7
14.	eP	A	10 42 08	Kurile Islands 48.35 N 153.74 E
				H = 10 30 28.2 h = 93.1 km MB = 4.7
				D = 76.16 Az = 336 (NEIS)
14.	ePKIKP	A	13 45 30	New Britain Region 6.38 S 150.35 E
	LmH	C	14 31.0	H = 13 26 30.7 h = 16.8 km MB = 5.6
	LmV	C	40.8	D = 124.10 Az = 330 (NEIS)
				PKIKPV A 1.4s 32.6nm
				LmH C 23 0.7/um M = 5.2
				LmV C 21 0.4/um 5.0
14.	ePKIKP	A	14 17 02	Kermadec Islands Region 28.58 S 178.70 W
	ePKP2	A	17 33	H = 13 57 38.9 h = 270.5 km MB = 5.0
	e	A	18 41.5	D = 156.62 Az = 343 (NEIS)
14.	eSn	A	17 53 37	D c. 4.5
	eSg	A	54 01	
14.	eP	A	20 52 16	Hokkaido, Japan Region 41.60 N 143.69 E
	epP	A	52 25.5	H = 20 40 14.1 h = 34.8 km MB = 5.2
	LmH	B	21 26.6	D = 79.05 Az = 331 (NEIS)
	LmV	B	30.3	h = 35 km
				PV A 1.7s 42.4nm M = 5.2
				LmH B 18 0.8/um 5.1
				LmV B 20 0.8/um 5.1
15.	eP	A	02 51 54.5	Dodecanese Islands 35.46 N 27.06 E
				H = 02 47 31.6 h = 44.6 km MP = 4.1
				D = 18.86 Az = 328 (NEIS)

Day	Phase		h m s	Remarks
15.	eP	A	03 07 30.5	Southern Greece 36.33 N 23.30 E
				H = 03 03 38.3 h = 51.9 km MB = 4.5
				D = 16.60 Az = 333 (NEIS)
				PV A 1.7s 30.3nm M = 4.2
15.	iPn	A	04 27 24.7	Austria 46.21 N 13.30 E
	ePg	A	27 45	H = 04 26 16.5 h = 33 km MB = 5.3
	iSn	A	28 16	D = 4.58 Az = 346 (NEIS)
	iSg	A	28 39.2	PnV A 0.6s 42.1nm
	LmH	B	29.0	PgV A 0.7 42.1nm
	LmV	B	29.4	SnV A 0.6 69.0nm
				SgV A 0.9 404.7nm
				LmH B 7.5 0.45/um M = 3.2
				LmV B 8 0.6/um
15.	ePn	A	05 27 49.5	D c. 4.5
	eSn	A	28 42	
	eSg	A	29 12	
15.	eP	A	08 18 23.5	Zaire Republic 4.46 N 19.35 E
	eS	B	25 08	H = 08 09 57.2 h = 23.3 km MB = 5.6
	eSS	B	28 35	D = 46.48 Az = 353 (NEIS)
	LmH	B	37.5	PV A 1.4s 23.3nm M = 5.0
	LmV	B	42.0	LmH B 18 3.6/um 5.4
				LmV B 15.5 3.0/um 5.4
5.	ePn	A	08 41 25.5	Northern Italy 46.32 N 12.76 E
	ePg	A	41 46	H = 08 40 21.1 h = 33 km MB = 4.8
	iSn	A	42 17	D = 4.40 Az = 350 (NEIS)
	iSg	A	42 39	PnV A 0.8s 26.9nm
				PgV A 1.0 39.4nm
				SnV A 0.5 88.5nm
				SgV A 1.2 231.7nm
15.	ePn	A	08 58 53	Pn traces
	ePg	A	59 17.5	D c. 4.5
	eSn	A	59 44	
	eSg	A	09 00 04	

Day	Phase		h m s	Remarks
15.	e	A	09 07 52.5	D c. 4.5
	e	A	08 47	
	eSg	A	09 07.5	
15.	eiPn	A	09 30 33	Austria 46.20 N 13.20 E
	ePg	A	30 52	H = 09 29 29 h = 10 km (CSEM)
	eSn	A	31 22	D = 4.6 (MOX)
	eSg	A	31 48	PnV A 0.4s 34.9nm
				PgV A 0.8 38.5nm
				SnV A 0.5 48.1nm
				SgV A 0.9 81.7nm
15.	ePn	A	09 41 50	Austria 46.48 N 13.03 E
	ePg	A	42 12.5	H = 09 40 45.6 h = 33 km
	eSn	A	42 40.5	D = 4.28 Az = 348 (NEIS)
	eSg	A	43 05	SgV A 0.5s 38.5nm
15.	iPn	A	15 18 31	D c. 4.5
	iSn	A	19 23	
	iSg	A	19 47	
15.	ePn	A	15 26 22.5	Austria 46.67 N 12.96 E
	ePg	A	26 40.5	H = 15 25 21.0 h = 33 km
	eSn	A	27 14	D = 4.08 Az = 348 (NEIS)
	eSg	A	27 39	SnV A 1.1s 28.2nm
				SgV A 1.1 46.4nm
15.	ePn	A	16 07 09	Austria 46.17 N 13.27 E
	ePg	A	07 26	H = 16 06 00.3 h = 33 km
	eSn	A	08 00	D = 4.61 Az = 347 (NEIS)
	eSg	A	08 24	PnV A 0.6s 23.0nm
				PgV A 0.7 23.0nm
				SnV A 0.7 34.5nm
				SgV A 1.2 93.5nm
15.	iPn	A	16 51 56.8	Northern Italy 46.70 N 12.81 E
	iSn	A	52 47.5	H = 16 50 55.9 h = 33 km
	eSg	A	53 11.5	D = 4.03 Az = 349 (NEIS)
				SgV A 1.0s 23.6nm

Day	Phase		h m s	Remarks
15.	ePn	A	18 38 16	Northern Italy 46.79 N 12.80 E
	eSn	A	39 07	H = 18 37 15.9 h = 36.1 km
	eiSg	A	39 31	D = 3.93 Az = 349 (NEIS)
				PnV A 0.7s 11.5nm
				SnV A 0.6 15.3nm
				SgV A 1.2 44.7nm
15.	ePKP	A	20 06 04.5	Fiji Islands Region 17.70 S 178.60 W
	eiX	A	06 07	H = 19 47 25.9 h = 525 km MB = 5.1
				D = 146.13 Az = 348 (NEIS)
				XV A 1.3s 43.7nm
15.	eP	AB	22 09 26.5	Peru 11.64 S 74.48 W
	e	A	09 48	H = 21 55 58.5 h = 33 km MB=6.0 MS=6.6
	ePP	B	13 21	D = 96.43 Az = 40 (NEIS)
	eiSKS	B	20 05	PV A 2.7s 364.3nm M = 6.4
	eS	B	20 50	PV B 5 1.6/um 6.8
	eiPS	B	21 56	PPV B 5 0.9/um 6.5
	eSS	C	27 10	LmH B 16.5 13.6/um 6.5
	LmV	B	54.5	LmV B 18 15.5/um 6.6
	LmH	B	55.8	
15.	eSn	A	22 36 18.5	D c. 4.5
	eSg	A	36 42.5	
16.	eSn	A	04 59 07	Austria 46.1 N 13.3 E
	eSg	A	59 31	H = 04 57 04 h = 0 km (ISC)
				D = 4.7
16.	ePn	A	06 00 35	Austria 46.17 N 13.26 E
	e	A	01 00	H = 05 59 22.4 h = 10 km
	eSn	A	01 24.5	D = 4.61 Az = 347 (NEIS)
	eSg	A	01 47	
16.	ePn	A	07 45 40	Austria 46.21 N 13.25 E
	e	A	45 55	H = 07 44 29.1 h = 10 km
	eSn	A	46 30	D = 4.57 Az = 347 (NEIS)
	eSg	A	46 52.5	SnV A 0.8s 15.4nm
				SgV A 1.2 24.4nm

Day	Phase		h m s	Remarks
16.	eP	A	08 46 42.5	Vancouver Island Region 48.80 N 123.36 W
	epP	A	46 58	H = 08 35 14.8 h = 62 km MB = 5.1
	LmH	B	09 20.5	D = 73.68 Az = 28 (NEIS)
	LmV	B	20.5	h = 58 km
				PV A 1.4s 46.5nm M = 5.2
				LmH B 18 0.3/um
				LmV B 19 0.45/um
16.	ePn	A	12 57 28	Austria
	eSn	A	58 19	D c. 4.5 (MOX)
	eSg	A	58 43	
16.	eSg	A	13 50 56	Austria 46.2 N 13.2 E
				H = 13 48 30 (CSEM)
				D = 4.6
16.	eSg	A	17 29 18	Austria 46.2 N 13.7 E
				H = 17 26 46 (ISC)
				D = 4.65
16.	eSn	A	20 05 20	Austria 46.3 N 13.4 E
	eSg	A	05 51	H = 20 03 25 (ISC)
				D = 4.5
16.	eSg	A	20 16 16.5	Austria 46.2 N 13.2 E
				H = 20 13 42 (CSEM)
				D = 4.6
16.	ePKIKP	A	22 30 25	South Pacific Cordillera 54.62 S 132.52 W
	LmV	C	23 45.7	H = 22 10 31.2 h = 33 km MB=5.5 MS=5.1
	LmH	C	46.5	D = 158.03 Az = 86 (NEIS)
				PKIKPV A 1.5s 25.1nm
				LmH C 20 0.45/um M = 5.2
				LmV C 25 0.4/um 5.2
17.	eSn	A	02 57 44	D c. 4.5
	eSg	A	58 08	

Day	Phase		h m s	Remarks
17.	+eiP	AB	03 05 52.5	Uzbek SSR 40.38 N 63.47 E
	iPP	B	07 19.5	H = 02 58 40.6 h = 10 km MB=6.3 MS=7.0
	iS	C	11 30	D = 37.06 Az = 304 (NEIS)
	LmH	B	25.7	PV A 3.0s 2684.2nm M = 6.6
	LmV	B	25.7	PV B 10 27.0/um 7.1
				SH B 16 43.9/um 7.0
				LmH B 12 205.0/um 7.1
				LmV B 12 267.7/um 7.4
17.	eP	A	04 21 21	Uzbek SSR 40.66 N 62.94 E
				H = 04 14 15.6 h = 33 km MB = 4.7
				D = 36.57 Az = 303 (NEIS)
				PV A traces
17.	eP	A	05 01 01	Uzbek SSR 40.27 N 63.59 E
				H = 04 53 51.7 h = 33 km MB = 4.7
				D = 37.19 Az = 304 (NEIS)
				PV A traces
17.	ePg	A	11 51 44.5	Northern Italy 44.68 N 9.50 E
	e	A	52 02	H = 11 49 43.8 h = 10 km
	eiSn	A	52 22.5	D = 6.14 Az = 13 (NEIS)
	eSg	A	53 05	
17.	+iPn	AB	16 14 25.0	Austria 46.23 N 13.00 E
	eiPg	AB	14 44	H = 16 13 17.9 h = 33.6 km MB = 5.1
	iSn	AB	15 16.5	D = 4.51 Az = 349 (NEIS)
	eiSg	AB	15 40	PnV A 1.1s 411.3nm
	LmH	B	16.3	PgV A 0.8 230.8nm
	LmV	B	16.3	SnV A 1.2 361.8nm
				SgV A 1.3 2532.8nm
				LmH B 8 2.8/um M = 3.9
				LmV B 8 3.3/um
17.	ePn	A	16 22 09.5	Austria 46.23 N 13.05 E
	eSn	A	22(59)	H = 16 21 00.8 h = 10 km
	eSg	A	23 24	D = 4.52 Az = 348 (NEIS)

Day	Phase		h m s	Remarks
17.	ePg	A	16 41 15.5	Northern Italy 44.79 N 9.40 E
				H = 16 39 17.0 h = 10 km
				D = 6.05 Az = 13 (NEIS)
17.	eSb	A	16 42 26	Northern Italy 44.66 N 9.49 E
				H = 16 39 15.0 h = 10 km (ISC)
				D = 6.15
17.	ePn	A	17 30 58	Austria 46.41 N 13.5 E
	eSn	A	31 49	H = 17 29 50 h = 0 km
	eSg	A	32 13	D = 4.42 Az = 344 (ISC)
17.	iSn	A	17 37 56	Northern Italy 46.38 N 12.95 E
	eSg	A	38 18	H = 17 36 00.3 h = 33 km
				D = 4.36 Az = 349 (NEIS)
17.	eP	A	22 29 36	Near East Coast of Kamchatka
				54.80 N 162.36 E
				H = 22 18 13.4 h = 34.7 km MB = 4.8
				D = 72.11 Az = 341 (NEIS)
17.	ePg	A	23 49 37	D c. 4.5
	eSg	A	50 37	
18.	iPn	A	01 31 17.5	Austria 46.21 N 13.03 E
	eiPg	A	31 35.5	H = 01 30 10.1 h = 33 km MB = 5.2
	ei	A	31 38.5	D = 4.54 Az = 349 (NEIS)
	iSn	A	32 09	PnV A 0.9s 101.2nm
	eSg	A	32 31	PgV A 0.6 80.5nm
	LmH	B	33.1	SnV A 0.5 173.1nm
	LmV	B	33.1	SgV A 1.2 833.3nm
				LmH B 8 1.0/um M = 3.5
				LmV B 8 1.2/um
18.	iPn	A	01 36 16.5	Austria 46.32 N 13.2 E
	eSn	A	37 08	H = 01 35 06.0 h = 0 km
	eSg	A	37 32	D = 4.46 Az = 347 (ISC)

Day	Phase		h m s	Remarks
18.	iPn	A	02 40 49	Austria 46.04 N 13.23 E
	ePg	A	41 10	H = 02 39 39.1 h = 33 km MB = 4.9
	eiSn	A	41 40.5	D = 4.73 Az = 347 (NEIS)
	eiSg	A	42 05.5	PnV A 0.3s 15.9nm
				PgV A 0.6 23.0nm
				SnV A 0.5 38.5nm
				SgV A 1.0 116.1nm
18.	eSb	A	02 52 58	Northern Italy 45.80 N 13.48 E
				H = 02 50 29.5 h = 154 km (ISC)
				D = 5.05
18.	LmH	B	02 57.5	Near Coast of Peru 16.83 S 72.70 W
	LmV	B	57.5	H = 02 02 15.5 h = 65 km MB = 5.4
				D = 99.29 Az = 40 (NEIS)
18.	eP	A	04 23 38	Uzbek SSR 40.27 N 63.69 E
	e	A	25 02	H = 04 16 25.9 h = 33 km MB = 4.7
				D = 37.26 Az = 304 (NEIS)
				PV A traces
18.	ePKP	A	05 14 32.5	New Hebrides Region 21.60 S 173.34 E
				H = 04 54 52.3 h = 51.6 km MB=5.2 MS=5.4
				D = 147.65 Az = 338 (NEIS)
18.	ePKP	A	05 21 20	Fiji Islands Region 17.29 S 179.03 W
				H = 05 02 37.5 h = 500.1 km MB = 4.6
				D = 145.65 Az = 348 (NEIS)
18.	ePKP2	A	06 25 08	West of Macquarie Island
	LmH	B	07 45.2	59.95 S 154.08 E
	LmV	B	45.2	H = 06 04 47.0 h = 33 km MB=5.3 MS=6.2
				D = 156.99 Az = 263 (NEIS)
				LmH B 18s 1.8/um M = 5.8
				LmV B 18 2.7/um 6.1
18.	ePn	A	08 02 52.5	Austria 46.24 N 13.08 E
	ePg	A	03 13.5	H = 08 01 42.0 h = 0 km

Day	Phase		h m s	Remarks
cont. 18.	eSn	A	08 03 44	D c. 4.52 Az = 348 (ISC)
	eSg	A	04 07	
18.	eP	A	08 34 35	Crete 35.03 N 25.39 E
	e	B	38 17	H = 08 30 21.4 h = 72.7 km MB = 4.8
	e	B	38 36	D = 18.54 Az = 332 (NEIS)
	LmH	B	42.7	
	LmV	B	43.6	
18.	eP	A	09 04 41	Uzbek SSR 40.26 N 63.49 E
				H = 08 57 29.4 h = 33 km MB = 4.8
				D = 37.13 Az = 304 (NEIS)
18.	eP	A	14 01 32.5	Uzbek SSR 40.27 N 63.34 E
				H = 13 54 23.9 h = 33 km MB = 4.7
				D = 37.04 Az = 304 (NEIS)
18.	iPn	A	14 33 31	Austria 46.28 N 12.93 E
	eSn	A	34 22	H = 14 32 24.5 h = 10 km (CSEM)
	eSg	A	34 46	D = 4.5
18.	eiPn	A	15 23 22.5	Northern Italy 46.14 N 12.47 E
	eSn	A	24 13	H = 15 22 22.2 h = 33 km (NEIS)
	eSg	A	24 39	D = 4.5
18.	LmH	C	15 24.5	Kyushu 30.20 N 131.21 E
	LmV	C	24.5	H = 14 30 00.9 h = 52 km MB = 4.8 (ISC)
				D = 83.5
				LmV C 16s 1.0/um
18.	ePKP	A	16 53 53	Samoa Islands Region 16.24 S 172.49 W
				H = 16 34 16.8 h = 33 km MB = 5.0
				D = 145.52 Az = 355 (NEIS)
				PKPV A 1.2s 28.5nm
18.	ePn	A	20 19 33.5	D c. 4.5
	eSn	A	20 24	
	eSg	A	20 49	

Day	Phase		h m s	Remarks
18.	eP	A	21 21 43	Luzon, Philippine Islands
				14.92 N 120.02 E
				H = 21 08 45.3 h = 33 km MB = 4.9
				D = 89.83 Az = 323 (NEIS)
				PV A traces
18.	ePg	A	23 46 44	D c. 4.5
	eSn	A	47 19	
	eSg	A	47 42	
19.	epP	A	02 40 23	Mindanao, Philippine Islands
				6.65 N 126.18 E
				H = 02 26 25.6 h = 62 km MB = 5.3
				D = 100.04 Az = 324 (NEIS)
19.	eP	A	03 04 46	Eastern Kazakh SSR 49.86 N 78.01 E
				H = 02 56 57.9 h = 0 km MB = 5.0
				D = 41.16 Az = 298 (NEIS)
19.	eP	A	04 19 35	Colombia 4.46 N 75.78 W
	epP	A	20 17	H = 04 07 15.8 h = 157.3 km MB = 5.9
	eS	B	29 46	D = 84.93 Az = 40 (NEIS)
	esS	B	31 00	h = 175 km
	e	B	34 32	PV A 2.0s 239.3nm M = 5.7
	eSS	B	35 20	SH B 14 3.1/um 6.1
	LmH	B	45.7	LmH B 14 1.0/um
	LmV	B	49.5	LmV B 16 0.7/um
19	LmH	B	10 45.6	Lake Baykal Region 52.34 N 106.50 E
	LmV	B	45.7	H = 10 09 02 h = 17 km MB = 4.4 (ISC)
				D = 54.9
				LmH B 12s 0.3/um M = 4.6
				LmV B 11.5 0.4/um 4.8
19.	ePn	A	12 00 16	D c. 4.5
	e(Pg)	A	00 42.5	
	eSn	A	01 11	
	eSg	A	01 38	

Day	Phase		h m s	Remarks
19.	ePn	A	15 16 02.5	Austria 46.18 N 13.16 E
	eSn	A	16 53	H = 15 14 51.2 h = 0 km
	eSg	A	17 18.5	D = 4.58 Az = 348 (ISC)
19.	ePn	A	15 18 32	D c. 4.5
	ePg	A	18 56	
	eSn	A	19 23	
	eSg	A	19 48	
19.	ePKP2	A	15 47 13.5	Balleny Islands Region 61.59 N 154.5 E
				H = 15 26 47.4 h = 33 km
				D = 156.93 Az = 259 (ISC)
19.	eP	A	16 01 55	Uzbek SSR 40.23 N 63.36 E
	ePP	A	03 18	H = 15 54 45.6 h = 33 km MB = 5.0
	LmV	B	20.5	D = 37.07 Az = 304 (NEIS)
	LmH	B	22.0	LmH B 12s 0.35/um M = 4.3
				LmV B 14 0.45/um 4.5
19.	LmV	B	17 04.7	Uzbekistan 39.9 N 63.9 E
	LmH	B	05.3	H = 16 21 52.2 h = 160 km MB = 4.4 (ISC)
				D = 37.6
				LmH B 20s 0.5/um
				LmV B 20 0.5/um
19.	eP	A	17 56 14	Caribbean Sea 16.87 N 85.53 W
	LmV	B	18 34.8	H = 17 43 59.6 h = 43 km MB=5.3 MS=4.5
	LmH	B	37.6	D = 81.57 Az = 40 (NEIS)
				PV A 1.4s 23.2nm M = 5.0
				LmH B 16 0.6/um 5.1
				LmV B 16 0.6/um 5.1
19.	ePn	A	18 01 01	D c. 2.7
	eiPg	A	01 06	
	eiSg	A	01 42	
19.	ePn	A	19 00 37	D c. 4.5
	eSn	A	01 28	
	eSg	A	01 54	

Day	Phase		h m s	Remarks
19.	ePKIKP	A	19 30 32	Kermadec Islands Region 31.12 S 177.79 W
	ePKP2	A	31 09	H = 19 10 41.7 h = 72 km MB = 5.8
	epPKP2	A	31 24	D = 159.27 Az = 343 (NEIS)
	e	A	33 39	PPV B 9s 0.9/um M = 5.8
	ePP	B	34 48	LmH B 18 4.4/um 6.2
	eSS	B	54 56	LmV B 17.5 4.3/um 6.3
	LmH	B	20 52.8	
	LmV	B	59.0	
19.	ePKP2	A	22 50 35	Fiji Islands Region 19.89 S 177.74 W
				H = 22 31 45.8 h = 559.8 km MB = 3.8
				D = 148.43 Az = 349 (NEIS)
20.	eiPKP	A	05 18 51	Tonga Islands 15.94 S 175.09 W
	epPKP	A	20 09	H = 04 59 47.1 h = 292 km MB = 5.5
				D = 144.96 Az = 353 (NEIS)
				h = 321 km
				PKPV A 1.2s 77.2nm
20.	ePn	A	14 45 47.5	Austria 46.24 N 13.3 E
	eSn	A	46 39	H = 14 44 36 h = 0 km
	eSg	A	47 06	D c. 4.55 Az = 346 (ISC)
20.	e(P)	A	17 12 40	Ryukyu Islands 27.4 N 128.4 E
				H = 17 00 21.7
				D = 84.43 Az = 325 (ISC)
21.	eP	A	01 42 21	Luzon, Philippine Islands
				13.98 N 120.63 E
				H = 01 29 33.2 h = 160.2 km MB = 4.9
				D = 90.93 Az = 323 (NEIS)
21.	eP	ABC	04 24 51	Talaud Islands 3.68 N 125.08 E
	epP	A	25 35	H = 04 11 15.2 h = 173 km MB = 5.9
	ePP	B	29 00	D = 101.76 Az = 323 (NEIS)
	eSKS	C	35 10	h = 177 km
	eiS	C	36 12	PV A 2.2s 136.0nm M = 6.2
	e	C	37 25	PPV B 9 1.5/um 6.3
	ePPS	C	39 00	LmH B 20.5 2.7/um 5.8

Day	Phase		h m s	Remarks
cont. 21.	ePKKP	A	04 41 21	LmV B 18s 2.4/um M = 5.8
	LmH	B	05 05.6	
	LmV	B	13.6	
21.	ePKIKP	A	07 01 06	East Papua, New Guinea Region
	e	A	03 11	5.92 S 145.85 E
				H = 06 42 26.1 h = 126 km MB = 5.9
				D = 121.38 Az = 328 (NEIS)
				PKIKPV A 1.8s 20.2nm
21.	eX	A	09 41 13.5	Turkey 39.32 N 29.10 E
	LmH	B	46.7	H = 09 37 02.5 h = 27.6 km MB = 4.3
	LmV	B	48.9	D = 16.72 Az = 318 (NEIS)
				XV A traces
				LmH B 14.5s 0.7/um M = 4.0
				LmV B 10 0.6/um 4.3
21.	eP	A	11 27 20	Andreanof Islands, Aleutian Is.
	epP	A	27 33	51.72 N 173.54 W
				H = 11 15 24.5 h = 45 km MB=4.9 MS=4.4
				D = 77.92 Az = 357 (NEIS)
				h = 48 km
				PV A 1.2s 20.3nm M = 5.0
21.	eP	AB	15 17 04	South of Honshu, Japan 31.01 N 141.65 E
	ePP	AC	20 28	H = 15 04 17.2 h = 33 km MB=5.2 MS=5.5
	eS	B	27 44	D = 87.50 Az = 331 (NEIS)
	LmH	B	16 01.9	PV A 2.2s 65.5nm M = 5.5
	LmV	B	06.2	LmH B 17 1.6/um 5.5
				LmV B 14 1.2/um 5.5
21.	ePKHKP	A	19 29 12	Fiji Islands Region 20.67 S 178.92 W
				H = 19 10 33.0 h = 632 km MB = 4.6
				D = 148.95 Az = 347 (NEIS)
22.	ePKIKP	A	03 19 11	Solomon Islands 5.58 S 154.27 E
	ePP	A	21 03	H = 03 00 22.0 h = 115 km MB = 5.
	epPP	A	21 26	D = 125.32 Az = 332 (NEIS)

Day	Phase		h m s	Remarks
cont.				
22.	LmH	B	04 07.0	LmH B 18s 0.4/um
	LmV	B	14.6	LmV B 20 0.4/um
22.	eSn	A	06 04 48	Northern Italy 45.8 N 13.0 E
				H = 06 02 20 h = 0 km (ISC)
				D = 4.95
22.	ePKP	A	10 10 05.5	Loyalty Islands Region 21.30 S 170.11 E
				H = 09 50 39.4 h = 138 km MB = 5.2
				D = 146.18 Az = 335 (NEIS)
22.	ePKP2	A	10 18 22	Kermadec Islands Region 31.49 S 177.6 W
				H = 09 57 47 h = 21 km MB = 4.8 (ISC)
				D = 159.7
22.	ePKP2	A	10 19 23	Kermadec Islands Region 31.39 S 177.61 W
	e	A	19 34	H = 09 58 48.7 h = 33 km MB = 5.0
				D = 159.57 Az = 343 (NEIS)
22.	ePKIKP	A	10 31 16	New Britain Region 5.58 S 148.29 E
	e	A	33 15	H = 10 12 40.9 h = 174.5 km MB = 5.9
	e	A	33 39	D = 122.38 Az = 329 (NEIS)
	LmH	B	11 45.7	PKIKPV A 1.3s 24.0nm
	LmV	B	45.8	LmH B 16.5 0.9/um
				LmV B 17 1.1/um
22.	ePn	A	16 27 08	Northern Italy 46.2 N 12.8 E
	eSn	A	27 58.5	H = 16 25 57
				D = 4.5 Az = 350 (ISC)
23.	iPn	A	00 52 20	Austria 46.27 N 13.14 E
	ePg	A	52 40	H = 00 51 12.6 h = 33 km MB = 5.1
	iSn	A	53 11	D = 4.49 Az = 348 (NEIS)
	iSg	A	53 34.5	PnV A 0.7s 30.7nm
	LmH	B	54.3	PgV A 0.8 30.8nm
	LmV	B	54.3	SnV A 1.2 52.8nm
				SgV A 1.3 161.6nm
				LmH B 8 0.6/um M = 3.3
				LmV B 6 0.7/um

Day	Phase		h m s	Remarks
23.	ePn	A	01 54 20	D c. 4.5
	eSn	A	55 12	
	eSg	A	55 35	
23.	eP diff	BC	06 16 40	New Ireland Region 4.94 S 153.69 E
	ePKIKP	AB	20 04	H = 06 01 14.6 h = 103 km MB = 5.8
	e	A	20 43	D = 124.49 Az = 332 (NEIS)
	iPP	B	21 52	PKIKPV B 12s 0.9/um
	eS diff	B	29 40	PPV B 14 3.3/um M = 6.1
	ePS	B	31 40	LmH B 18 6.7/um
	eiSS	C	39 40	LmV B 20 6.1/um
	LmH	B	07 07.3	
	LmV	B	16.8	
23.	eP	AB	16 46 03	Near Coast of Peru 10.49 S 78.32 W
	e	A	46 22	H = 16 32 33.0 h = 73 km MB = 5.9
	e	A	47 05.5	D = 97.98 Az = 40 (NEIS)
	ePP	BC	50 20	PV A 1.6s 38.5nm M = 5.9
	iSKS	BC	56 37	LmH B 19.5 2.6/um
	eS	BC	57 25	LmV B 17 3.1/um
	e(PKKP)	A	17 03 07	
	eSS	C	04 05	
	eSSS	C	07 50	
	LmH	B	28.5	
	LmV	B	36.1	
24.	ePKP2	AB	05 30 55	Kermadec Islands Region 31.18 S 177.65 W
	LmH	B	06 54.6	H = 05 10 21.2 h = 33 km
	LmV	B	57.3	MB = 5.3 MS = 5.7 (NEIS)
				D = 159.3
				PKP2V A 2.0s 51.3nm
				LmH B 16 0.8/um M = 5.5
				LmV B 17 1.2/um 5.8
24.	eP	A	11 07 32	Near Coast of Nicaragua 11.50 N 86.89 W
				H = 10 54 55.0 h = 48 km MB = 5.3
				D = 86.54 Az = 39 (ISC)

Day	Phase		h m s	Remarks
24.	eP	A	11 37 10	South of Honshu, Japan 31.25 N 141.62 E
	ePP	AB	40 32	H = 11 24 25.2 h = 33 km MB=5.7 MS=5.7
	eSKS	B	47 44	D = 87.27 Az = 331 (NEIS)
	eiS	C	47 48	PV A 1.8s 60.9nm M = 5.6
	eSS	C	53 35	PV B 10 1.2/um 6.1
	LmH	B	12 21.8	PPV A 2.5 153.7nm 6.0
	LmV	B	22.6	PPV B 10 1.2/um 6.3
				LmH B 14 6.0/um 5.9
				LmV B 15 6.1/um 6.0
24.	ePKP	A	15 27 37.5	Tonga Islands 15.50 S 174.19 W
				H = 15 08 11.2 h = 99 km MB = 4.7
				D = 144.63 Az = 354 (NEIS)
				PKPV A 1.2s 18.3nm
24.	iPn	A	17 53 33.5	Northern Italy 45.74 N 12.12 E
	ei	A	53 52	H = 17 52 20.7 h = 33 km MB = 3.4
	iPg	A	53 54	D = 4.93 Az = 356 (NEIS)
	iSn	A	54 30	LmH B 10s 0.55/um M = 3.2
	i	A	54 52	LmV B 10 0.7/um
	iSg	A	54 55	
	LmH	B	55.6	
	LmV	B	55.6	
25.	ePKP	A	00 58 36	New Hebrides Islands 19.77 S 169.03 E
				H = 00 39 08.4 h = 70 km MB = 5.1
				D = 144.37 Az = 335 (NEIS)
25.	ePKIKP	A	03 46 50.5	Fiji Islands Region 18.01 S 177.95 W
	iPKHKP	A	46 53.2	H = 03 28 18.0 h = 613.8 km MB=5.4
	ePKP2	A	46 55.8	D = 146.55 Az = 349 (NEIS)
				PKHKPV A 1.2s 73.2nm
25.	eP	A	04 59 26	Burma - India Border Region
	epP	A	59 53	25.08 N 95.35 E
				H = 04 48 41.9 h = 107 km MB = 4.7
				D = 67.17 Az = 317 (NEIS)
				h = 109 km

Day	Phase		h m s	Remarks
25.	+iP	AB	08 20 45.0	Off East Coast of Kamchatka
	epP	A	20 57	51.59 N 159.39 E
	LmH	B	59.4	H = 08 09 08.3 h = 33 km MB=5.3 MS=5.2
	LmV	B	59.4	D = 74.54 Az = 339 (NEIS)
				h = 44.4
				PV A 1.8s 81.1nm M = 5.4
				pPV A 1.6 87.9nm
				LmH B 14.5 2.6/um 5.7
				LmV B 14 2.9/um 5.8
25.	+iP	AB	08 28 21.0	Off East Coast of Kamchatka
	eS	C	38 00	51.61 N 159.36 E
	LmH	B	09 07.0	H = 08 16 45.8 h = 43 km MB=5.5 MS=4.8
	LmV	B	07.0	D = 74.51 Az = 339 (NEIS)
				PV A 1.6s 126.4nm M = 5.6
				LmH B 14 3.1/um 5.8
				LmV B 14 4.9/um 6.0
25.	eP	A	12 50 38	Jan Mayen Island Region 71.58 N 12.45 W
	e	A	50 47	H = 12 45 26.8 h = 10 km MB = 4.6
	LmH	B	13 00.5	D = 23.66 Az = 140 (NEIS)
	LmV	B	00.5	
25.	eP	A	14 10 03	Jan Mayen Island Region 71.57 N 12.25 W
	e	A	10 13	H = 14 04 51.5 h = 10 km MB = 4.6
	LmH	B	19.8	D = 23.61 Az = 140 (NEIS)
	LmV	B	19.8	LmH B 16s 0.35/um M = 3.9
				LmV B 16 0.3/um 4.0
25.	+iPKP	AB	16 32 35.5	New Hebrides Islands 20.40 S 169.22 E
	+ipPKP	A	32 48	H = 16 13 04.3 h = 59.6 km MB = 5.4
	LmH	B	17 40.4	D = 145.02 Az = 335 (NEIS)
	LmV	B	40.5	PKPV A 1.1s 213.7nm
				PKPV B 5 1.0/um
				pPKPV A 1.3 183.4nm
25.	eP	A	18 47 25	Turkey 39.33 N 29.11 E
	LmH	B	53.0	H = 18 43 27.5 h = 13.6 km MB = 4.5

Day	Phase		h m s	Remarks
cont.				
25.	LmV	B	18 55.4	D = 16.72 Az = 318 (NEIS)
				PV A 2.2s 54.5nm M = 4.3
				LmH B 16 0.9/um 4.1
				LmV B 10 0.9/um 4.4
25.	ePn	A	19 49 06	Austria 47.08 N 12.55 E
	ePg	A	49 26	H = 19 48 10.5 h = 33 km
	eSn	A	49 57	D = 3.62 Az = 351 (NEIS)
	eSg	A	50 20	SnV A 0.6s 24.9nm
				SgV A 1.2 48.8nm
25.	iPn	A	22 22 27.5	Northern Italy 46.69 N 11.81 E
	ePg	A	22 48	H = 22 21 34.7 h = 33 km
	eSn	A	23 20	D = 3.96 Az = 358 (NEIS)
	eSg	A	23 44.5	SgV A 1.2s 28.5nm
26.	eSg	A	04 41 32	Austria 46.35 N 13.42 E
				H = 04 39 05.7 h = 0 km (ISC)
				D = 4.5
26.	ePn	A	07 49 38	Northern Italy 46.90 N 12.74 E
	eSn	A	50 29	H = 07 48 39.2 h = 33 km
	eSg	A	50 54	D = 3.82 Az = 349 (NEIS)
				SnV A 0.6s 19.2nm
				SgV A 1.2 36.6nm
26.	ePn	A	11 21 42.5	Austria 46.2 N 13.2 E
	eSn	A	22 32	H = 11 20 36 (CSEM)
	eSg	A	23 02.5	D = 4.57 Az = 347
26.	eP	A	11 45 44.5	Jan Mayen 71.67 N 12.9 W
				H = 11 40 29.6 h = 0 km
				D = 23.82 Az = 139 (ISC)
27.	e	A	00 34 38	Svalbard Region 77.76 N 7.77 E
				H = 00 28 41.9 h = 10 km MB = 4.8
				D = 27.26 Az = 175 (NEIS)

Day	Phase		h m s	Remarks
27.	ePn	A	03 50 56.5	Austria 46.15 N 13.22 E
	ePg	A	51 16.5	H = 03 49 45.3
	eSn	A	51 47.5	D = 4.63 Az = 347 (ISC)
	eSg	A	52 11	
27.	ePKHKP	A	04 09 09	Fiji Islands Region 21.08 S 178.00 W
				H = 03 50 07.3 h = 424.8 km MB = 4.8
				D = 149.54 Az = 348 (NEIS)
27.	ePKIKP	A	07 14 21	South of Fiji Islands 22.32 S 179.47 W
	ePKHKP	A	14 27	H = 06 55 40.2 h = 576 km MB = 5.0
	ePKP2	A	14 35	D = 150.43 Az = 346 (NEIS)
	e(pPKP)	A	16 44	PKHKPV A 1.2s 52.9nm
				PKP2V A 1.3 39.4nm
27.	LmH	C	08 52.0	West Irian Region 0.89 S 134.17 E
				H = 07 51 02 h = 34 km MB = 5.0 (ISC)
				D = 110.8
				LmH C 17s 0.35/um M = 5.0
27.	e(P)	A	10 52 16	North Atlantic Ridge 47.87 N 27.72 W
	e	A	52 24	H = 10 46 48.4 h = 33 km MB=4.3 MS=4.0
	LmV	C	11 01.0	D = 25.62 Az = 69 (NEIS)
	LmH	C	01.3	LmH C 16s 0.25/um M = 3.9
				LmV C 20 0.35/um 4.0
27.	LmH	C	15 31.4	South of Panama 4.86 N 82.61 W
	LmV	C	31.8	H = 14 46 09.7 h = 33 km MB = 4.9
				D = 88.96 Az = 39 (ISC)
				LmV C 24s 0.3/um M = 4.7
27.	eSg	A	20 55 09	Switzerland 46.95 N 8.14 E
				H = 20 52 45.2 h = 2 km (ISC)
				D = 4.3
27.	e	A	23 17 57	Northern Italy 44.50 N 9.76 E
	iSn	A	18 15.5	H = 23 15 35.2 h = 33 km MB = 4.3
	eSg	A	18 59	D = 6.27 Az = 11 (NEIS)

Day	Phase		h m s	Remarks
28.	eP	A	06 22 13.5	Luzon, Philippine Islands
				16.86 N 120.53 E
				H = 06 09 30.3 h = 100.6 km MB = 4.8
				D = 88.59 Az = 323 (NEIS)
28.	e(PKP2)	A	06 30 38.5	West of Maquarie Island 58.65 S 149.25 E
	e	A	30 50.5	H = 06 10 31.0 h = 33 km MB=5.3 MS=4.9
				D = 154.60 Az = 270 (NEIS)
28.	ePKHKP	A	08 04 01.5	Tonga Islands 20.61 S 173.65 W
	ePKP2	A	04 07	H = 07 44 13.0 h = 33 km MB = 5.1
	LmH	B	09 15.7	D = 149.74 Az = 353 (NEIS)
	LmV	B	26.5	LmH B 18s 0.5/um M = 5.3
				LmV B traces
28.	eP	A	14 12 47.5	Uzbek SSR 40.36 N 63.58 E
				H = 14 05 37.3 h = 25.4 km MB = 4.9
				D = 37.14 Az = 304 (NEIS)
				PV A 0.8s 11.5nm M = 4.8
28.	eP	A	23 06 21.5	Turkey 39.31 N 29.10 E
	LmV	B	14.3	H = 23 02 20.2 h = 7.6 km MB = 4.5
	LmH	B	14.5	D = 16.73 Az = 318 (NEIS)
				LmH B 11s 1.6/um M = 4.5
				LmV B 10 1.6/um 4.7
29.	eP	AB	12 34 32	Yunnau Province, China 24.57 N 98.95 E
	ePP	B	37 12	H = 12 23 18.7 h = 8 km MB=6.1 MS=6.9
	eS	B	43 46	D = 69.77 Az = 317 (NEIS)
	eSSS	B	51 40	PV A 3.0s 1450.0nm M = 6.5
	eP'P'	A	13 02 38	PV B 11 3.3/um 6.3
	LmH	B	05.0	LmH B 20 207.0/um 7.4
	LmV	B	09.6	LmV B 18 69.5/um 7.0
29.	ePn	A	12 58 51.5	Northern Italy 46.41 N 12.89 E
	iSn	A	59 43	H = 12 57 45.8 h = 10 km
	eSg	A	13 00 06	D = 4.32 Az = 349 (NEIS)

Day	Phase		h m s	Remarks
29.	eP	AB	14 11 31.5	Burma - China Border Region
	Pm	A	11 42	24.53 N 98.71 E
	eS	B	20 52	H = 14 00 18.5 h = 10 km MB=6.0 MS=7.0
	eSSS	B	28 48	D = 69.65 Az = 317 (NEIS)
	LmH	B	39.5	PmV A 1.5s 246.0nm M = 6.1
	eP'P	A	39.44	LmH B 22.5 137.0/um 7.2
	LmV	B	46.6	LmV B 17 43.7/um 6.8
29.	eP	A	14 42 57	Burma - China Border Region
				24.39 N 98.77 E
				H = 14 31 47.7 h = 33 km MB = 4.9
				D = 69.79 Az = 317 (NEIS)
29.	ePn	A	14 58 55	Austria 46.46 N 13.2 E
	eSg	A	15 00 06	H = 14 57 46 h = 0 km
				D = 4.33 Az = 346 (ISC)
29.	eP	A	19 48 07	Burma - China Border Region
	LmH	B	20 15.8	24.55 N 98.93 E
	LmV	B	23.0	H = 19 36 55.7 h = 31.5 km MB = 5.2
				D = 69.77 Az = 317 (NEIS)
				PV A 1.5s 45.2nm M = 5.3
				LmH B 22 1.5/um 5.2
				LmV B 16 0.9/um 5.1
29.	e(P)	A	22 46 03	Turkey 40.41 N 28.85 E
				H = 22 42 09.5 h = 13.7 km MB = 4.0
				D = 15.79 Az = 316 (NEIS)
30.	eP	A	03 15 08	Halmahera 1.05 S 127.04 E
	ePP	AB	15 26	H = 02 56 39.6 h = 33 km MB=5.5 MS=5.5
	eSKS	C	21 28	D = 106.70 Az = 323 (NEIS)
	LmV	B	04 18.4	LmH B 20s 2.2/um M = 5.7
	LmH	B	18.8	LmV B 19 2.6/um 5.8
30.	+iPKIKP	A	03 27 41.5	Off Coast of Southern Chile
	ePKKP	A	37 55	41.64 S 75.41 W
				H = 03 08 54.2 h = 28.3 km MB=6.0 MS=5.9
				D = 119.06 Az = 47 (NEIS)
				PKIKPV A 1.3s 65.5nm

Day	Phase		h m s	Remarks
30.	eP	A	04 29 56	Burma - China Border Region
				24.42 N 98.81 E
				H = 04 18 43.8 h = 27.7 km MB = 5.1
				D = 69.79 Az = 317 (NEIS)
30.	iPn	A	21 14 18.0	Austria 46.32 N 13.08 E
	e	A	14 34	H = 21 13 12.1 h = 33 km MB = 4.2
	ePg	A	14 38	D = 4.44 Az = 348 (NEIS)
	iSn	A	15 08	PnV A 0.6s 38.3nm
	eiSg	A	15 32	PgV A 1.0 31.5nm
				SnV A 0.7 53.6nm
				SgV A 1.3 87.3nm
30.	eP	A	22 00 05	Ryukyu Islands 29.04 N 129.87 E
	LmH	B	41.3	H = 21 47 38.7 h = 39.6 km MB = 4.6
	LmV	B	41.5	D = 83.77 Az = 326 (NEIS)
				LmH B 19s 1.1/um M = 5.3
				LmV B 16 1.1/um 5.3
30.	eP	A	22 42 42	Burma - China Border Region
				24.54 N 98.87 E
				H = 22 31 33.5 h = 33.7 km MB = 4.8
				D = 69.74 Az = 317 (NEIS)
31.	ePKP2	A	02 17 58	Kermadec Islands 30.03 S 177.71 W
				H = 01 57 32.5 h = 53 km
				D = 158.25 Az = 344 (ISC)
31.	iP1	AC	05 19 40	Burma - China Border Region
	eP2	A	19 43	24.34 N 98.64 E
	ePP	C	22 20	H = 05 08 28.5 h = 14 km MB=5.5 MS=6.2
	eS	B	28 54	D = 69.74 Az = 317 (NEIS)
	eSS	B	33 28	P2V A 2.0s 188.0nm M = 5.9
	eSSS	B	36 36	LmH B 21.5 17.5/um 6.3
	LmH	B	47.5	LmV B 16.5 9.6/um 6.2
	LmV	B	54.9	

Day	Phase		h m s	Remarks
31.	ePn	A	07 25 29	Austria 46.1 N 13.5 E
	ePg	A	25 49	H = 07 24 21 h = 0 km
	eSg	A	26 44	D = 4.71 Az = 345 (ISC)
				SgV A 1.2s 48.8nm
31.	eP	A	08 13 51	Iran - USSR Border Region
				38.92 N 55.81 E
				H = 08 07 11.5 h = 6.6 MB = 4.7
				D = 33.01 Az = 305 (NEIS)
				PV A 1.0s 15.7nm M = 4.9
31.	eP	A	09 32 34	North Atlantic Ridge 47.88 N 27.66 W
				H = 09 26 59.8 h = 33 km MB = 4.4
				D = 25.57 Az = 69 (NEIS)
31.	eP	A	13 29 12	Kurile Islands 48.12 N 152.74 E
				H = 13 17 35.7 h = 110.7 km MB = 5.1
				D = 76.10 Az = 336 (NEIS)
				PV A 1.6s 27.5nm M = 4.8
31.	eP	A	15 02 41.5	Michoacan, Mexico 19.37 N 100.93 W
				H = 14 50 05.2 h = 159.3 km MB = 5.1
				D = 88.64 Az = 36 (NEIS)
				PV A 1.3s 15.3nm M = 4.8
31.	eP	A	18 46 17	Burma - China Border Region
	eS	C	55 25	24.38 N 98.77 E
	eSS	C	19 00 00	H = 18 35 05.1 h = 20.4 km MB=5.2 MS=5.5
	eSSS	C	03 20	D = 69.80 Az = 317 (NEIS)
	LmH	B	15.6	PV A 1.4s 18.6nm M = 5.0
	LmV	B	21.4	LmH B 17 1.5/um 5.3
				LmV B 17.5 1.7/um 5.4
31.	ePKP2	A	20 25 56	Kermadec Islands Region 31.09 S 177.98 W
	e	A	26 03	H = 20 05 33.0 h = 98 km MB=4.9 (NEIS)
				D = 159.2
31.	ePKP2	A	20 59 12	Kermadec Islands Region 31.19 S 177.91 W

Day	Phase		h m s	Remarks
cont. 31.	e	A	20 59 21.5	H = 20 38 54.2 h = 154 km MB = 5.1 (NEIS)
				D = 159.2
31.	ePKIKP	A	22 41 35	Santa Cruz Islands 11.25 S 165.34 E
	LmV	C	23 47.0	H = 22 22 13.9 h = 20.9 km MB=5.3 MS=5.2
				D = 135.20 Az = 336 (NEIS)
				PKIKPV A traces
				LmH C 20s 0.8/um M = 5.4
				LmV C 19 0.7/um 5.4

Day	Phase		h m s	Remarks
1.	ePn	A	04 34 56	Austria 46.38 N 13.13 E
	eSn	A	35 46	H = 04 33 47.1 h = 0 km
	eSg	A	36 11	D = 4.38 Az = 347 (ISC)
1.	ePKP	A	14 32 52	Fiji Islands Region 17.80 S 178.83 W
				H = 14 14 18.5 h = 624.5 km MB = 5.1
				D = 146.18 Az = 348 (NEIS)
1.	iPn	A	15 47 13.8	Northern Italy 45.98 N 12.94 E
	eSn	A	48 04	H = 15 46 06.9 h = 33 km
	eSg	A	48 28	D = 4.76 Az = 350 (NEIS)
				PnV A 0.6s 11.5nm
				SgV A 1.3 26.2nm
1.	eiPn	A	17 22 17	Northern Italy 46.20 N 12.78 E
	ePg	A	22 33.5	H = 17 21 11.1 h = 33 km MB = 5.2
	iSn	A	23 08	D = 4.52 Az = 351 (NEIS)
	eiSg	A	23 33	PnV A 0.3s 23.8nm
	LmV	B	24.1	PgV A 0.5 46.2nm
	LmH	B	24.2	SnV A 0.5 76.9nm
				SgV A 1.0 303.1nm
1.	ePn	A	19 17 12	Austria 46.2 N 13.0 E
	ePg	A	17 31.5	H = 19 16 06 h = 33 km
	eSn	A	18 04	D = 4.55 Az = 349 (ISC)
	eSg	A	18 28	SnV A 0.7s 17.2nm
				SgV A 1.0 43.3nm
1.	ePP	A	22 49 04	Mariana Islands Region 16.88 N 147.47 E
	epPP	A	49 16	H = 22 30 58.8 h = 45 km MB = 5.4
	LmH	B	23 35.2	D = 102.41 Az = 333 (NEIS)
	LmV	B	35.2	PPV A 1.8s 67.6nm M = 4.9
				LmH B 19 0.4/um 5.0
				LmV B 19 0.4/um 4.9
2.	eP	A	06 01 29	Hokkaido, Japan Region 41.47 N 141.95 E
				H = 05 49 32.4 h = 62.2 km MB = 5.2
				D = 78.52 Az = 330 (NEIS)
				PV A 1.0s 15.8nm M = 4.9

Day	Phase		h m s	Remarks
2.	eP	A	06 11 28.5	Talaud Islands 3.74 N 126.50 E
				H = 05 57 39.7 h = 93.3 km MB = 5.2
				D = 102.55 Az = 324 (NEIS)
				PV A 1.0s 11.8nm M = 5.5
2.	eP	A	08 01 39	Talaud Islands 3.88 N 126.60 E
				H = 07 47 43.0 h = 33 km MB = 5.2
				D = 102.51 Az = 324 (NEIS)
				traces
2.	iPn	A	09 28 08	Northern Italy 46.27 N 12.92 E
	eSn	A	28 59	H = 09 26 58.8 h = 0 km
	eSg	A	29 24	D = 4.46 Az = 349 (ISC)
				SnV A 0.7s 21.1nm
				SgV A 1.1 82.7nm
2.	eP	A	10 36 33	Taiwan Region 25.29 N 122.20 E
	epP	A	37 25.5	H = 10 24 31.8 h = 215.4 km MB = 5.4
	LmH	C	11 10.0	D = 82.82 Az = 323 (NEIS)
	LmV	C	15.3	h = 222.5 km
				LmH C 17s 0.25/um
				LmV C 15 0.3/um
2.	ePKP	A	11 08 40.5	Fiji Islands Region 17.86 S 178.42 W
	e	A	10 21.5	H = 10 50 03.8 h = 549.4 km MB = 5.2
				D = 146.32 Az = 348 (NEIS)
				PKPV A 1.2s 20.3nm
2.	ePg	A	14 00 23	Northern Italy 44.75 N 8.92 E
	eSg	A	01 42	H = 13 58 26.7 h = 10 km (CSEM)
				D = 6.21
2.	LmH	B	20 28.0	South Pacific Cordillera
	LmV	B	30.9	62.81 S 160.2 W
				H = 18 46 53.0 h = 33 km MB = 5.3 (ISC)
				D = 166.8
				LmH B 20s 0.9/um M = 5.5
				LmV B 18 0.7/um 5.5

Day	Phase		h m s	Remarks
3.	ePn	A	03 57 27.5	D c. 4.5
	eSg	A	58 44	
3.	ePKIKP	A	14 04 26.5	South of Fiji Islands 26.57 S 178.31 E
	ePKHKP	A	04 35.5	H = 13 45 43.8 h = 616.5 km MB = 5.6
	ePKP2	A	04 52	D = 153.89 Az = 341 (NEIS)
				PKIKPV A 2.0s 51.3nm
				PKP2V A 1.2 108.1nm
3.	LmH	B	14 31.0	LmH B 13s 0.2/um
3.	iPn	A	15 45 54	D c. 4.5
	ePg	A	46 15	
	iSn	A	46 44.5	
	eSg	A	47 08	
3.	eP diff	BC	17 00 04	New Ireland Region 5.20 S 153.44 E
	ePKP	AB	03 31	H = 16 44 38.8 h = 88.1 km MB = 6.2
	iPP	AB	05 16	D = 124.60 Az = 331 (NEIS)
	ePS	B	15 10	PKPV B 8s 1.6/um
	eSS	B	21 50	PPV B 9 6.2/um M = 7.0
	LmH	B	50.8	LmH B 18.5 21.1/um
	LmV	B	57.6	LmV B 22 24.7/um
3.	eP	A	18 16 24	Burma - China Border Region
				24.24 N 98.67 E
				H = 18 05 14.8 h = 33 km MB = 4.8
				D = 69.83 Az = 317 (NEIS)
3.	ePn	A	20 23 20	D c. 4.5
	ePg	A	23 40	SgV A 1.1s 32.3nm
	eSn	A	24 12	
	eSg	A	24 34	
3.	ePKP	A	21 23 25	Samoa Islands Region 15.28 S 172.30 W
				H = 21 03 49.2 h = 13.3 km MB=5.3 MS=5.1
				D = 144.59 Az = 356 (NEIS)
				PKPV A 1.5s 70.4nm

Day	Phase		h m s	Remarks
4.	eP	AB	00 52 41	India - Pakistan Border Region
	eS	C	01 00 00	24.58 N 68.41 E
	e	C	04 20	H = 00 43 43.4 h = 33 km MB=5.2 MS=5.0
	LmH	B	01 16.9	D = 50.48 Az = 316 (NEIS)
	LmV	B	22.1	PV A 2.1s 67.0nm M = 5.3
				LmH B 20 1.7/um 5.1
				LmV B 14 1.1/um 5.1
4.	eP1	AB	04 35 49	Near East Coast of Honshu, Japan
	eP2	A	35 57	38.32 N 142.67 E
	eS	B	46 00	H = 04 23 32.4 h = 20.6 km MB=5.7 MS=5.6
	eSS	C	51 50	D = 81.53 Az = 331 (NEIS)
	eSSS	C	54 45	P1V A 1.9s 91.0nm M = 5.5
	LmH	B	05 14.9	P2V A 2.2 174.5nm 5.7
	LmV	B	15.3	SH B 13 1.5/um 5.9
				LmH B 16.5 9.8/um 6.2
				LmV B 16 9.0/um 6.3
4.	eP	A	05 47 44.5	Volcano Islands Region 23.89 N 143.06 E
				H = 05 34 26.5 h = 33 km MB = 5.5
				D = 94.31 Az = 331 (NEIS)
4.	eP	A	06 31 47	Ionian Sea 37.21 N 20.85 E
				H = 06 28 10.2 h = 33 km MB = 3.9
				D = 14.97 Az = 337 (NEIS)
4.	iPn	A	07 50 24.0	Northern Italy 46.19 N 12.87 E
	ePg	A	50 44	H = 07 49 17.5 h = 33 km
	iSn	A	51 14.5	D = 4.53 Az = 350 (NEIS)
	iSg	A	51 39	PgV A 0.5s 34.6nm
				SnV A 0.5 46.2nm
				SgV A 1.0 157.5nm
4.	iPn	A	11 58 05.5	Austria 46.09 N 12.97 E
	ePg	A	58 26.5	H = 11 56 57.8 h = 33 km
	eSn	A	58 56	D = 4.65 Az = 349 (NEIS)
	eSg	A	59 22	SgV A 1.0s 63.0nm

Day	Phase		h m s	Remarks
5.	ePKIKP	AB	08 39 15	Solomon Islands 10.09 S 161.01 E
	epPKIKP	AB	39 30	H = 08 20 07.2 h = 61.3 km MB = 6.2
	e(PKiKP)	A	41 19	D = 132.36 Az = 334 (NEIS)
	ePP	AB	41 36	h = 54 km
	ePKS	B	42 40	PKIKPV A 1.5s 30.2nm
	LmH	B	09 37.9	PPV A 1.4 37.2nm M = 5.2
	LmV	B	38.1	PPV B 10 1.8/um 6.0
				LmH B 22 6.8/um
				LmV B 22 6.4/um
5.	ePKIKP	A	14 34 21	Solomon Islands 7.45 S 154.73 E
				H = 14 15 18.4 h = 39.1 km MB = 5.8
				D = 127.18 Az = 331 (NEIS)
				traces
5.	e	A	20 33 43	Greece 38.58 N 22.21 E
	e	A	33 53	H = 20 30 11.5 h = 51 km MB = 4.2
				D = 14.21 Az = 332 (NEIS)
				traces
6.	eP	A	02 28 57	Vancouver Island Region
	eS	B	38 42	49.03 N 127.87 W
	eSS	B	43 42	H = 02 17 17.4 h = 33 km MB=5.2 MS=5.3
	LmH	B	03 04.2	D = 74.81 Az = 25 (NEIS)
	LmV	B	06.8	PV A 1.2s 28.4/um M = 5.1
				LmH B 15.5 2.0/um 5.5
				LmV B 15 2.3/um 5.6
6.	ePn	A	08 13 44	Northern Italy 46.23 N 12.89 E
	ePg	A	14 06	H = 08 12 37.8 h = 33 km
	iSn	A	14 36.5	D = 4.50 Az = 350 (NEIS)
	eSg	A	14 57	eSg 1.3s 74.2nm
6.	eP	A	12 11 17	Near West Coast of Honshu
				37.56 N 138.45 E
				H = 11 59 09.6 h = 40 km MB = 5.1
				D = 80.52 Az = 329 (ISC)

Day	Phase		h m s	Remarks
6.	ePn	A	12 32 01	D c. 4.5
	eSn	A	32 52	
	eSg	A	33 17	
6.	ePKP2	A	13 14 53.5	Kermadec Islands 29.84 S 177.7 W
				H = 12 54 26 h = 42 km
				D = 158.08 Az = .344 (ISC)
6.	eP	A	14 13 37	Honshu, Japan 36.09 N 139.57 E
				H = 14 01 21.1 h = 73.3 km MB = 4.9
				D = 82.24 Az = 330 (NEIS)
6.	eP	A	14 47 14	Ionian Sea 37.00 N 20.32 E
	LmH	B	53.0	H = 14 43 43,2 h = 46.6 km MB = 4.0
	LmV	B	55.8	D = 15.00 Az = 338 (NEIS)
				LmH B 20s 0.45/um M = 3.6
6.	eP	A	17 56 02	Andreanof Islands, Aleutian Is.
	LmH	B	18 34.9	51.50 N 178.03 W
	LmV	B	35.0	H = 17 44 09.1 h = 53.6 km MB=5.2 MS=4.9
				D = 77.90 Az = 354 (NEIS)
				PV A 1.5s 37.8nm M = 5.2
				LmH B 19 0.6/um 4.9
				LmV B 20 0.7/um 5.0
6.	ePKP	A	21 13 18	New Hebrides Islands 16.29 S 167.33 E
				H = 20 53 45.5 h = 18.5 km MB = 5.1
				D = 140.56 Az = 336 (NEIS)
7.	eP	A	06 01 01	Kurile Islands 48.84 N 154.94 E
				H = 05 49 15.4 h = 33 km MB=5.1 MS=5.1
				D = 76.02 Az = 337 (NEIS)
				PV A 1.1s 16.1nm M = 5.0
7.	eP	AB	07 50 08.5	Luzon, Philippine Islands
	Pm	A	50 31	14.09 N 124.83 E
	ePP	B	54 16	H = 07 36 55.4 h = 33 km MB=6.1 MS=6.4
	iS	B	08 01 20	D = 93.27 Az = 324 (NEIS)
	ePS	B	02 32	PV B 12s 2.3/um M = 6.5
	eSS	C	07 44	PmV A 2.1 153.3nm 6.1

Day	Phase		h m s	Remarks
cont. 7.	LmH	B	08 31.7	SH B 14s 6.7/um M = 6.7
	LmV	B	37.9	LmH B 18 29.4/um 6.8
				LmV B 16.5 6.9/um 6.9
7.	ePKP	A	08 38 45.5	Fiji Region 18.68 S 176.9 W
				H = 08 19 29 h = 250 km MB = 4.7
				D = 147.39 Az = 350 (ISC)
7.	eP	A	09 34 27	Luzon, Philippine Islands
	ePP	A	38 05	14.08 N 124.87 E
				H = 09 21 08.4 h = 33 km MB = 5.3 (NEIS)
				D = 93.3
				PV A 2.0s 21.4nm M = 5.2
7.	eP	AB	14 39 36	Guerrero, Mexico 17.40 N 100.64 W
	iPP	B	43 09	H = 14 26 39.1 h = 44.6 km MB=6.1 MS=6.4
	eSKS	C	50 00	D = 90.06 Az = 36 (NEIS)
	eSKKS	B	50 20	PV A 2.5s 354.0nm M = 6.2
	iS	B	50 48	PV B 15 3.5/um 6.5
	ePS	B	51 52	PPV B 14 4.7/um 6.7
	eSS	B	56 50	LmH B 17 13.0/um 6.4
	eSSS	B	15 00 40	LmV B 17 15.1/um 6.5
	LmH	B	23.7	
	LmV	B	23.7	
7.	eP	A	17 56 51.5	Kurile Islands 44.56 N 149.42 E
				H = 17 44 52.6 h = 33 km MB = 5.0
				D = 78.35 Az = 334 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
7.	ePKP	AB	21 12 10	Loyalty Islands Region 21.22 S 170.23 E
	e	A	12 18.5	H = 20 52 34.1 h = 42.6 km MB=5.2 MS=4.9
	LmH	B	22 37.1	D = 146.16 Az = 335 (NEIS)
	LmV	B	39.1	XV A 2.1s 86.2nm
8.	ePKIKP	A	09 41 49	New Hebrides Islands 16.30 S 167.26 E
	e	A	41 53	H = 09 22 17.6 h = 13.2 km MB=4.8 MS=5.6
	LmH	B	10 41.2	D = 140.54 Az = 336 (NEIS)

Day	Phase		h m s	Remarks
cont. 8.	LmV	B	10 55.4	PKIKPV A traces
				LmH B 16.5s 0.4/um M = 5.2
				LmV B 16 0.3/um 5.2
8.	eP	A	11 43 19	Unimak Islands Region 53.91 N 163.46 W
	e(pP)	A	43 37	H = 11 31 35.9 h = 49.3 km MB = 4.5
				D = 75.74 Az = 3 (NEIS)
8.	ePg	A	12 07 00	D c. 4.5
	eSg	A	07 52	
8.	iPn	AB	12 15 46.5	Austria 46.22 N 13.26 E
	eiPg	A	16 06	H = 12 14 38.0 h = 21.1 km MB = 4.2
	eiSn	A	16 36	D = 4.56 Az = 347 (NEIS)
	eiSg	A	17 03	PnV A 0.5s 146.2nm
	LmH	B	17.4	PgV A 1.0 342.5nm
	LmV	B	17.9	SnV A 1.4 758.1nm
				SgV A 1.3 1593.9nm
				LmH B 6 2.9/um M = 4.2
				LmV B 4 2.2/um
8.	ePn	A	12 20 38	D c. 4.5
	eSn	A	21 30	
	iSg	A	21 54	
8.	eP	A	18 37 04	Mediterranean Sea 36.73 N 20.15 E
				H = 18 33 28.8 h = 21.3 km MB = 3.7
				D = 15.21 Az = 339 (NEIS)
9.	eP	AB	00 31 47	Burma - China Border Region
	ePP	B	34 24	24.89 N 98.75 E
	eS	B	40 48	H = 00 20 39.5 h = 33 km MB=5.7 MS=5.9
	eSS	B	45 28	D = 69.41 Az = 317 (NEIS)
	eSSS	B	48 35	PV A 2.0s 205.0nm M = 5.8
	LmH	B	59.4	LmH B 22.5 7.8/um 5.9
	LmV	B	01 05.2	LmV B 13 6.0/um 6.1

Day	Phase		h m s	Remarks
9.	+iP	A	03 10 50	Eastern Kazakh SSR 50.02 N 79.08 E
	ePn	A	12 31	H = 03 02 57.6 h = 0 km MB = 5.4
				D = 41.70 Az = 298 (NEIS)
				PV A 1.0s 35.4nm M = 5.0
9.	eP	AB	10 06 32	Turkey 39.32 N 29.05 E
	eS	C	09 48	H = 10 02 33.4 h = 16.1 km MB = 4.5
	LmH	B	12.2	D = 16.69 Az = 318 (NEIS)
	LmV	B	14.5	PV A 2.2s 87.2nm M = 4.5
				PV B 10 0.7/um 4.7
				LmH B 16 4.4/um 4.8
				LmV B 10 4.0/um 5.1
9.	e(PKP)	C	14 46 30	Banda Sea 4.86 S 125.71 E
	eSKS	C	54 15	H = 14 27 43.0 h = 33 km
	e	B	57 30	MB = 5.5 MS = 5.6 (NEIS)
	eSS	C	15 01 45	D = 108.9
	LmH	B	43.9	LmH B 18s 0.8/um M = 5.4
	LmV	B	45.5	LmV B 18 0.8/um 5.3
9.	ePKIKP	A	16 49 40	New Britain Region 6.52 S 151.41 E
	LmH	B	17 43.8	H = 16 30 39.7 h = 17.9 km MB = 5.5
	LmV	B	46.8	D = 124.76 Az = 330 (NEIS)
				LmH B 18s 0.6/um M = 5.3
				LmV B 20 0.6/um 5.3
9.	ePn	A	18 49 24	Northern Italy 46.13 N 12.93 E
	eiPg	A	49 41	H = 18 48 15.6 h = 20.3 km
	eiSn	A	50 15.5	D = 4.60 Az = 350 (NEIS)
	eSg	A	50 38	PnV A 0.6s 19.2nm
	LmH	B	51.3	PgV A 1.0 94.5nm
	LmV	B	51.3	SgV A 1.1 487.9nm
				LmH B 8 0.8/um M = 3.34
				LmV B 8 0.9/um
9.	ePn	A	19 13 27.5	D c. 4.5
	ePg	A	13 52	
	eSn	A	14 18	
	eSg	A	14 43.5	

Day	Phase		h m s	Remarks
9.	eP	A	22 53 27.5	Taiwan 22.67 N 120.82 E
				H = 22 40 58.0 h = 39.5 km MB = 5.1
				D = 84.14 Az = 323 (NEIS)
9.	eP	A	23 13 58	South Atlantic Ridge 28.09 S 13.34 W
	LmH	B	44.0	H = 23 01 42.4 h = 33 km MB=5.3 MS=5.1
	LmV	B	44.5	D = 81.44 Az = 16 (NEIS)
				PV A 1.8s 27.0nm M = 5.0
				LmH B 18 0.35/um 4.8
				LmV B 18 0.45/um 4.9
10.	ePn	A	00 16 22	Northern Italy 46.0 N 12.8 E
	ePg	A	16 39.5	H = 00 15 15 h = 33 km
	eSn	A	17 13.5	D = 4.72 Az = 350 (ISC)
	eSg	A	17 38	
10.	eP	A	05 59 25.5	Crete 35.50 N 23.74 E
	LmH	B	06 06.3	H = 05 55 22.4 h = 91.6 km MB = 4.3
	LmV	B	07.8	D = 17.50 Az = 334 (NEIS)
10.	eP	A	10 31 07.5	Off East Coast of Kamchatka
	epP	A	31 20	51.62 N 159.43 E
	LmH	B	11 09.6	H = 10 19 31.5 h = 40 km MB = 5.0
	LmV	B	09.7	D = 74.51 Az = 339 (NEIS)
				h = 46 km
				PV A 1.7s 48.5nm M = 5.2
				LmH B 14 0.45/um 4.9
				LmV B 14 0.5/um 5.0
10.	ePKP	A	11 28 43	Loyalty Islands Region 22.02 S 169.93 E
				H = 11 09 04.6 h = 33 km
				D = 146.76 Az = 335 (NEIS)
				PKPV A 1.2s 20.3nm
10.	ePn	A	13 05 35	Austria 46.29 N 13.14 E
	ePg	A	05 56	H = 13 04 23.3 h = 0 km
	eSn	A	06 25	D = 4.47 Az = 347 (ISC)
	eSg	A	06 48	

Day	Phase		h m s	Remarks
10.	LmV	C	14 11.0	LmV C 20s 0.25/um
10.	LmV	B	15 35.3	LmH B 17s 0.25/um
	LmH	B	36.0	LmV B 18 0.35/um
10.	eP	A	20 24 04	South Atlantic Ridge 27.95 S 12.85 W
				H = 20 11 45.5 h = 33 km MB = 5.1
				D = 81.19 Az = 15 (NEIS)
11.	LmH	C	04 16.0	Leeward Islands 17.03 N 60.56 W
	LmV	C	16.0	H = 03 41 58.3 h = 41.5 km MB = 5.3
				D = 65.74 Az = 42 (NEIS)
				LmH C 22s 0.3/um M = 4.5
				LmV C 20 0.35/um 4.6
11.	eP	A	05 17 04.5	Southern Sinkiang Prov., China
	eSS	C	27 25	39.95 N 77.29 E
	LmH	B	37.7	H = 05 08 43.0 h = 32.4 km MB = 5.3
	LmV	B	37.7	D = 45.99 Az = 306 (NEIS)
				PV A 1.5s 25.1nm M = 4.9
				LmH B 14 1.3/um 5.0
				LmV B 14 2.1/um 5.3
11.	iPg	A	15 14 18.0	D c. 1.6
	eiSg	A	14 39.5	
11.	+iPn	A	17 17 49	Austria 46.16 N 12.95 E
	ePg	A	18 10	H = 17 16 42.0 h = 47.8 km MB = 4.2
	eiSn	A	18 41	D = 4.58 Az = 349 (NEIS)
	eiSg	A	19 02	PnV A 0.8s 157.7nm
	LmH	B	19.7	PgV A 0.9 226.8nm
	LmV	B	19.7	SnV A 1.0 315.0nm
				SgV A 1.2 2296.7nm
				LmH B 7 3.6/um M = 4.1
				LmV B 8 4.1/um
11.	ePn	A	17 30 12	Austria 46.25 N 13.08 E
	eSn	A	31 03.5	H = 17 29 01.4 h = 0 km
	eSg	A	31 28	D = 4.5 Az = 348 (ISC)

Day	Phase		h m s	Remarks
11.	iPn	A	17 40 47.5	Austria 46.30 N 12.97 E
	e	A	41 13	H = 17 39 41.4 h = 33 km
	iSn	A	41 39	D = 4.45 Az = 349 (NEIS)
	eSg	A	42 01.5	
11.	eP	A	17 52 43	Austria 46.21 N 13.34 E
	eSn	A	53 34	H = 17 51 35.2 h = 33 km
	eSg	A	53 57	D = 4.59 Az = 346 (NEIS)
				SgV A 1.0s 31.5nm
11.	eP	A	18 29 16.5	Greece - Albania Border Region
	LmH	B	34	39.40 N 20.39 E
	LmV	B	36.9	H = 18 26 14.7 h = 53.2 km MB = 4.6
				D = 12.83 Az = 334 (NEIS)
				PV A 0.7s 11.5nm M = 4.8
11.	eP	A	20 06 28	Kurile Islands 43.04 N 147.05 E
	epP	A	06 39	H = 19 54 24.6 h = 23.2 km MB = 5.1
				D = 78.94 Az = 333 (NEIS)
				h = 40 km
11.	ePKHKP	A	20 16 39.5	Tonga Islands 20.06 S 173.99 W
				H = 19 56 51.1 h = 33.8 km MB = 5.0
				D = 149.15 Az = 353 (NEIS)
				PKHKPV A 2.0s 42.7nm
12.	eP1	AB	01 02 43	Ionian Sea 37.55 N 20.55 E
	+iP2	AB	02 54	H = 00 59 16.9 h = 8.2 km MB=5.5 MS=5.3
	i	A	03 02.5	D = 14.57 Az = 337 (NEIS)
	i	A	03 10.5	P1V A 1.4s 107.0nm M = 5.0
	eS	C	05 34	P2V A 1.6 576.9nm 5.7
	LmH	B	09.9	LmH B 13.5 21.4/um 5.5
	LmV	B	09.9	LmV B 13.5 19.5/um 5.6
12.	eP1	A	02 45 17	Ionian Sea 17.39 N 20.56 E
	eP2	A	45 27	H = 02 41 43.5 h = 38.2 km MB = 4.3
				D = 14.72 Az = 337 (NEIS)
				P2V A 0.7s 15.3nm M = 4.5

Day	Phase		h m s	Remarks
12.	ePKP2	A	03 21 38.5	Kermadec Islands Region 28.82 S 176.50 W
	LmH	B	04 40.0	H = 03 01 11.3 h = 43 km
	LmV	B	40.0	MB = 5.1 MS = 5.2 (NEIS)
				D = 157.1
				LmH B 18s 0.7/um M = 5.4
				LmV B 18 0.8/um 5.6
12.	eP	A	03 42 19	El Salvador 13.41 N 89.94 W
				H = 03 29 46.1 h = 94 km M = 4.6 (NEIS)
				D = 86.9
				PV A traces
12.	eP	A	03 45 17.5	Ionian Sea 37.36 N 20.18 E
				H = 03 41 42.5 h = 10 km (CSEM)
				D = 14.65
12.	eP1	A	04 58 14	Ionian Sea 37.40 N 20.44 N
	eP2	A	58 23	H = 04 54 48.2 h = 43 km MB = 4.6
				D = 14.67 Az = 337 (NEIS)
				P1V A traces
				P2V A 1.2s 20.3nm M = 4.4
12.	ePKHKP	A	05 46 55	Tonga Islands 21.38 S 174.30 W
	ePKP2	A	47 04	H = 05 27 06.5 h = 34.2 km MB=5.4 MS=5.4
	LmH	B	06 55.0	D = 150.43 Az = 352 (NEIS)
	LmV	B	55.0	PKHKPV A 2.0s 85.5nm
				PKHKPV B 5 0.8/um
				LmH B 20 0.7/um M = 5.4
				LmV B 20 0.8/um 5.5
12.	eP	A	10 28 33	Greece 37.97 N 21.22 E
	LmH	B	35.5	H = 10 25 08.4 h = 33 km
	LmV	B	36.0	D = 14.41 Az = 335 (NEIS)
				LmH B 12s 0.2/um
12.	eP	A	10 39 48	Jan Mayen Island Region 71.39 N 8.61 W
				H = 10 34 48.0 h = 33 km MB = 4.8
				D = 22.76 Az = 145 (NEIS)
				PV A 1.2s 28.5nm M = 4.6

Day	Phase		h m s	Remarks
12.	LmV	C	12 25.0	Near North Coast of New Guinea
				3.60 S 144.65 E
				H = 11 14 00.9 h = 33 km MB = 5.2 (ISC)
				D = 118.8
				LmV C 20s 0.3/um M = 4.9
12.	eP	A	17 32 33	North Atlantic Ocean 56.2 N 35.4 W
				H = 17 26 44
				D = 28.12 Az = 81 (ISC)
12.	iPn	A	18 06 40.8	Austria 46.19 N 13.28 E
	eSn	A	07 32.5	H = 18 05 32.9 h = 33 km
	eSg	A	07 57	D = 4.60 Az = 347 (NEIS)
				SgV A 0.9s 35.0nm
13.	eP	A	00 23 26	Ionian Sea 37.48 N 20.61 E
	e	A	23 33	H = 00 20 00.5 h = 48 km MB = 4.4
				D = 14.64 Az = 337 (NEIS)
13.	eP	A	04 08 27	North Atlantic Ridge 32.30 N 40.30 W
	eS	B	14 58	H = 04 00 36.6 h = 33 km MB=4.5 MS=4.3
	e	B	18 12	D = 42.04 Az = 48 (NEIS)
	LmH	B	22.6	LmH B 22s 0.45/um M = 4.3
	LmV	B	22.6	LmV B 21 0.45/um 4.4
13.	eP	A	04 36 26	Iceland Region 68.45 N 17.67 W
	LmH	B	47.0	H = 04 31 22.2 h = 33 km MB = 4.6
	LmV	B	47.0	D = 22.81 Az = 127 (NEIS)
				LmV B 16s 0.3/um M = 4.0
13.	eP	A	05 30 33	Iceland Region 68.87 N 17.80 W
				H = 05 25 29.0 h = 33 km MB = 4.3
				D = 23.11 Az = 127 (NEIS)
13.	eP	AB	18 50 08.5	Molucca Sea 0.18 S 125.04 E
	e	A	54 20	H = 18 36 03.1 h = 33 km MB=5.7 MS=5.7
	ePP	C	54 25	D = 104.80 Az = 323 (NEIS)
	ePP	A	54 30	PV A 1.7s 36.4nm M = 6.0
	eSKS	C	19 00 48	PPV A 1.6 33.0nm 5.7

Day	Phase		h m s	Remarks
cont. 13.	ePS	C	19 03 50	LmH B 20s 2.7/um M = 5.8
	eSS	C	09 50	LmV B 22 2.7/um 5.8
	LmH	B	39.0	
	LmV	B	39.5	
13.	eP	A	19 17 28.5	Mona Passage 19.04 N 67.92 W
				H = 19 06 27.4 h = 50.9 km MB = 5.4
				D = 68.93 Az = 42 (NEIS)
				PV A 2.0s 76.9nm M = 5.3
13.	eP	AB	22 16 31	Near Coast of Peru 15.31 S 75.42 W
	ePP	A	20 33	H = 22 02 47.6 h = 33 km MB=5.6 MS=5.6
	eSKS	B	27 12	D = 99.81 Az = 40 (NEIS)
	LmH	B	23 03.0	PV A 1.6s 27.5nm M = 5.5
	LmV	B	05.0	LmH B 17 2.1/um 5.7
				LmV B 17 2.5/um 5.8
14.	iPn	A	00 20 03.3	D c. 4.5
	ePg	A	20 20.5	SgV A 1.3s 21.8nm
	eSn	A	20 54.5	
	eSg	A	21 17.5	
14.	eP	A	06 56 35	Turkey 39.35 N 29.19 E
	LmH	B	07 02.3	H = 06 52 37.5 h = 28.4 km MB = 4.7
	LmV	B	04.7	D = 16.75 Az = 318 (NEIS)
				PV A 2.0s 76.9nm
14.	eP	AB	14 06 47	Near Coast of Oaxaca, Mexico
				15.86 N 95.20 W
				H = 13 53 58.4 h = 58.8 km MB = 5.0
				D = 88.15 Az = 38 (NEIS)
				PV A traces
14.	ePKP	A	14 49 10	Fiji Region 20.42 S 178.35 W
				H = 14 30 17.9 h = 500 km
				D = 148.82 Az = 348 (ISC)
				PKPV A 1.3s 21.8nm

Day	Phase		h m s	Remarks
16.	ePKP2	A	01 44 06.5	South of Fiji Islands 25.48 S 176.22 W
				H = 01 23 57.5 h = 33 km MB = 5.0
				D = 154.16 Az = 349 (NEIS)
16.	eP	A	01 51 47	Austria 46.26 N 13.33 E
	ePg	A	52 04	H = 01 50 36.8 h = 10 km
	eSn	A	52 36.5	D = 4.54 Az = 346 (NEIS)
	eSg	A	53 02	
16.	eiPn	A	03 21 41	Austria 46.23 N 13.05 E
	ePg	A	22 00	H = 03 20 31.9 h = 10 km
	iSn	A	22 31.5	D = 4.52 Az = 348 (NEIS)
	eSg	A	22 55	PgV A 1.0s 27.6nm
				SnV A 0.9 50.6nm
				SgV A 1.1 121.0nm
16.	eP	A	15 37 05	Hindu Kush Region 36.47 N 69.70 E
				H = 15 29 17.9 h = 172 km MB = 4.8
				D = 43.31 Az = 308 (NEIS)
17.	+iP	A	02 56 17	Kodiak Island Region 57.43 N 154.33 W
	eipP	A	56 31.5	H = 02 44 58.9 h = 50 km MB = 5.2
	isP	A	56 38	D = 71.67 Az = 9 (NEIS)
				h = 56 km
				PV A 1.0s 67.0nm M = 5.5
17.	e(P)	A	08 52 07	USSR - Mongolia Border Region
				51.31 N 97.97 E
				H = 08 42 57.0 h = 17.7 km MB = 4.8
				D = 51.27 Az = 305 (NEIS)
17.	ePn	A	13 28 44	Austria 46.21 N 12.96 E
	ePg	A	29 03	H = 13 27 34.8 h = 10 km
	eSn	A	29 35	D = 4.53 Az = 349 (NEIS)
	eSg	A	30 00	SgV A 1.2s 28.5nm
17.	ePn	A	14 28 58	Austria 46.57 N 13.59 E
				H = 14 27 45.7 h = 10 km
				D = 4.28 Az = 343 (NEIS)

Day	Phase		h m s	Remarks
17.	iPn	A	14 29 58	Northern Italy 46.16 N 12.86 E
	iPg	A	30 16	H = 14 28 49.2 h = 23.7 km MB = 6.1
	iSn	A	30 46	D = 4.56 Az = 350 (NEIS)
	iSg	A	31 15	PnV A 0.8s 88.5nm
	LmV	B	32.4	PgV A 1.4 409.3nm
	LmH	B	32.5	SnV A 1.0 220.5nm
				SgV A 1.0 1378.0nm
				LmH B 4 2.6/um M = 5.0
				LmV B 4 3.6/um
17.	ePn	A	16 43 18	Austria 46.24 N 13.19 E
	eSn	A	44 08	H = 16 42 08.8 h = 10 km
	iSg	A	44 32	D = 4.53 Az = 347 (NEIS)
				SnV A 0.6s 21.1nm
				SgV A 1.0 55.1nm
17.	eP	A	23 39 00	Red Sea 23.28 N 36.8 E
				H = 23 32 20.1 h = 33 km MB = 4.3
				D = 33.59 Az = 331 (ISC)
				PV A 1.8s 30.4nm
18.	ePKIKP	AB	02 05 26	South of Tonga Islands 24.81 S 175.36 W
	ePKHKP	A	05 33.5	H = 01 45 37.3 h = 33 km MB=5.6 MS=5.6
	ePKP2	A	05 51	D = 153.65 Az = 350 (NEIS)
	ePP	C	09 20	LmH B 19.5s 0.8/um M = 5.5
	LmH	B	03 20.0	LmV B 20 1.3/um 5.7
	LmV	B	20.6	
18.	ePg	A	08 08 45	Czechoslovakia 49.4 N 18.6 E
	eSg	A	09 46	H = 08 07 24 h = 0 km
				D = 4.68 Az = 289 (ISC)
18.	eP	AB	10 27 35	Near Coast of Peru 15.30 S 75.50 W
	ePP	AB	31 36	H = 10 12 51.0 h = 33 km MB=5.6 MS=5.5
	eS	C	39 10	D = 99.86 Az = 40 (NEIS)
	ePS	C	40 40	PV A 2.0s 64.1nm M = 5.8
	eSS	B	46 00	LmH B 17 2.1/um 5.7
	LmH	B	11 14.0	LmV B 17 2.9/um 5.9
	LmV	B	16.0	

Day	Phase		h m s	Remarks
18.	eP	A	15 12 37	Near Coast of Peru 15.21 S 75.44 W
	ePP	A	16 39	H = 14 58 53.6 h = 32 km MB=5.7 MS=5.2
	LmH	B	59.2	D = 99.75 Az = 40 (NEIS)
	LmV	B	59.3	PV A 1.9s 53.0nm M = 5.7
				PPV A 2.0 25.6nm 5.3
				LmH B 17 1.0/um 5.4
				LmV B 18 1.2/um 5.4
18.	LmH	B	19 23.9	New Ireland Region 3.17 S 150.51 E
	LmV	B	24.5	H = 18 09 40.1 h = 32 km MB = 5.4 (ISC)
				D = 121.4
				LmH B 20s 0.6/um M = 5.2
				LmV B 20 0.8/um 5.4
18.	ePP	A	22 56 33	New Ireland Region 3.15 S 150.48 E
	e	A	57 33	H = 22 36 02.7 h = 33 km
	eSS	C	23 13 00	MB = 5.3 MS = 5.0 (NEIS)
	LmH	B	50.3	D = 121.3
	LmV	B	51.0	PPV A 2.0s 34.2nm M = 5.4
				LmH B 20 0.3/um 4.9
				LmV B 19 0.45/um 5.1
19.	+iPKP	A	07 57 44	New Hebrides Islands 18.75 S 168.88 E
				H = 07 38 26.2 h = 121 km MB = 5.3
				D = 143.39 Az = 336 (NEIS)
				PKPV A 1.3s 48.0nm
19.	eP	AB	15 13 11.5	Mascarene Islands Region
	e	A	14 35	18.02 S 65.41 E
	iS	B	23 32	H = 15 00 46.7 h = 33 km MB=5.6 MS=6.1
	eSS	B	28 30	D = 83.07 Az = 329 (NEIS)
	LmH	B	35.9	PV A 1.4s 51.1nm M = 5.4
	LmV	B	16 50.3	SH B 14.5 3.4/um 6.3
				LmH B 23.5 7.2/um 6.0
				LmV B 20 2.7/um 5.7
20.	e	A	02 44 32	Burma - China Border Region
	e	A	45 30	24.56 N 98.64 E
				H = 02 33 06.1 h = 16.7 km MB = 4.7

Day	Phase		h m s	Remarks
cont. 20.	LmH	B	03 14.8	D = 69.59 Az = 317 (NEIS)
	LmV	B	19.3	LmH B 19s 0.4/um M = 4.7
				LmV B 16 0.3/um 4.7
20.	eP	A	02 51 21	Ionian Sea 37.75 N 20.65 E
				H = 02 47 54.4 h = 67.8 km MB = 3.9
				D = 14.42 Az = 336 (NEIS)
20.	+iP1	AB	04 50 42.5	Southwestern Ryukyu Islands
	-iP2	AB	50 57.5	24.74 N 125.93 E
	ePP	BC	54 10	H = 04 38 08.0 h = 36.3 km MB=5.8 MS=5.8
	eSS	C	05 07 20	D = 85.26 Az = 324 (NEIS)
	LmH	B	32.2	P1V A 2.0s 197.0nm M = 6.0
	LmV	B	33.8	P2V A 1.9 1159.0nm 6.8
				P2V B 4.5 3.7/um 6.9
				PPV B 12 0.8/um 7.3
				LmH B 17 10.0/um 6.3
				LmV B 16 10.0/um 6.3
20.	LmH	B	05 00.8	Greece 38.53 N 22.12 E
	LmV	B	00.8	H = 04 51 17.0 h = 51 km MB = 4.7 (NEIS)
				D = 14.3
				LmH B 15s 2.7/um
				LmV B 14 2.9/um
20.	iPn	A	10 05 17.7	Austria 46.26 N 13.32 E
	eSn	A	06 09	H = 10 04 10.6 h = 33 km
	eSg	A	06 32	D = 4.53 Az = 346 (ISC)
				SgV A 1.0s 25.6nm
20.	eP	A	15 40 54	Burma - China Border Region
				25.3 N 98.5 E
				H = 15 29 47 h = 33 km
				D = 68.99 Az = 317 (ISC)
20.	+iP	AB	21 05 42	Northern Sumatra 3.40 N 96.32 E
	eS	B	16 08	H = 20 53 13.4 h = 33.5km
	eP'P'	A	32 08	MB = 6.3 MS = 7.0 (NEIS)
	LmV	B	48.3	D = 84.1
	LmH	B	49.8	

Day	Phase		h m s	Remarks
cont. 20.	eP'P'P'	A	21 52 37	PV A 1.4s 1120.0nm M = 6.8
				PV B 11 12.3/um 7.0
				SH B 16 19.2/um 6.9
				P'P'V A 2.8 193.0nm
				LmH B 18 51.7/um 7.0
				LmV B 18.5 43.4/um 6.9
				P'P'P'V A 2.4 96.7nm
20.	eP	A	21 39 14	Northern Sumatra 3.6 N 96.8 E
				H = 21 26 39.9 h = 0 km MB = 5.1
				D = 84.15 Az = 320 (ISC)
20.	eP	A	21 40 43.5	Northern Sumatra 3.22 N 96.38 E
				H = 21 28 11.7 h = 17 km MB = 5.2
				D = 84.20 Az = 320 (NEIS)
				PV A 1.4s 18.6nm M = 5.1
20.	eP	A	21 47 04	Northern Sumatra 3.75 N 96.69 E
				H = 21 34 32.6 h = 33 km MB = 5.2
				D = 83.99 Az = 320 (NEIS)
20.	eP	A	22 53 18.5	Northern Sumatra 3.67 N 96.84 E
				H = 22 40 49.7 h = 33 km MB = 5.2
				D = 84.15 Az = 320 (NEIS)
20.	eP1	A	23 41 02	Uzbek SSR 40.40 N 63.74 E
	iP2	A	41 05.5	H = 23 33 48.8 h = 12 km MB = 5.3
	ePP	A	42 24	D = 37.21 Az = 304 (NEIS)
				P1V A 1.4s 27.9nm M = 4.9
				P2V A 1.1 46.4nm 5.2
20.	eP	A	24 07 29	Northern Sumatra 3.42 N 96.33 E
				H = 23 55 00.4 h = 33 km MB = 5.3
				D = 84.02 Az = 320 (NEIS)
				PV A 1.4s 23.3nm M = 5.2
21.	eP	A	04 55 18	Northern Sumatra 3.27 N 96.38 E
				H = 04 42 50.1 h = 45.2 km MB = 5.2
				D = 84.16 Az = 320 (NEIS)

Day	Phase		h m s	Remarks
cont. 21.	epP	A	04 55 26	h = 29 km
				PV A 1.5s 35.2nm M = 5.2
				pPV A 1.3 28.4nm
21.	eP	A	05 17 38	Northern Sumatra 3.28 N 96.34 E
				H = 05 05 09.3 h = 42 km MB = 4.9
				D = 84.13 Az = 320 (NEIS)
				PV A 1.4s 18.6nm M = 5.0
21.	+iP	AB	07 30 04.0	Northern Sumatra 3.40 N 96.40 E
	ePP	B	33 24	H = 07 17 34.8 h = 31.5 km MB=5.8 MS=5.2
	eS	C	40 28	D = 84.08 Az = 320 (NEIS)
	LmH	B	08 14.2	PV A 1.8s 162.2nm M = 5.9
	LmV	B	15.2	LmH B 16 0.5/um 5.0
				LmV B 18 0.6/um 5.0
21.	eP	A	09 23 35	Northern Sumatra 3.18 N 96.44 E
				H = 09 11 02.0 h = 33 km MB = 5.2
				D = 84.27 Az = 320 (NEIS)
				traces
21.	eP	A	11 03 30	Crete 34.67 N 24.12 E
				H = 10 59 14.0 h = 22 km MB = 4.3
				D = 18.39 Az = 334 (NEIS)
				traces
21.	ePKP	A	11 21 10	Tonga Islands 15.63 S 175:28 W
				H = 11 01 49.8 h = 131.6 km MB = 4.7
				D = 144.63 Az = 352 (NEIS)
21.	ePn	A	18 59 42	Austria 46.08 N 13.18 E
	eiSn	A	19 00 34	H = 18 58 33.8 h = 33 km
	eSg	A	00 57	D = 4.68 Az = 348 (ISC)
				SnV A 0.6s 15.3nm
				SgV A 1.1 48.4nm
21.	eP	A	23 33 50	Austria 46.20 N 13.24 E
	eSn	A	34 41	H = 23 32 42.3 h = 33 km

Day	Phase		h m s	Remarks
cont. 21.	eSg	A	23 35 05.5	D = 4.58 Az = 347 (NEIS) PnV A 0.6s 7.7nm SgV A 1.1 22.2nm
22.	eP	A	02 36 37	Northern Sumatra 3.44 N 96.36 E
	epP	A	36 45	H = 02 24 09.9 h = 43 km MB = 5.3
	LmH	C	03 19.0	D = 84.03 Az = 320 (NEIS)
	LmV	C	19.0	h = 29 km
				PV A 1.8s 40.5nm M = 5.2
22.	ePn	A	04 58 22	Northern Italy 46.0 N 13.1 E
	eSg	A	59 36	H = 04 57 15 h = 33 km
				D = 4.77 Az = 349 (ISC)
22.	eP	A	12 11 33	Northern Sumatra 3.4 N 96.2 E
	eS	C	21 52	H = 11 59 04.6 h = 33 km
	LmH	B	55.3	MB = 5.3 MS = 5.1 (NEIS)
	LmV	B	55.3	D = 84.0
				PV A 1.4s 27.9nm M = 5.2
				LmH B 19 0.7/um 5.0
				LmV B 18 0.9/um 5.2
22.	eP	A	22 49 55	Northern Sumatra 3.23 N 96.27 E
				H = 22 37 25.0 h = 33 km MB = 4.9
				D = 84.13 Az = 320 (NEIS)
				traces
23.	eP	A	01 20 26	Northern Sumatra 3.34 N 96.38 E
				H = 01 07 56.3 h = 33 km MB = 4.9
				D = 84.11 Az = 320 (NEIS)
				PV A 1.5s 20.1nm M = 5.1
23.	eP	A	04 42 49	Jan Mayen Island Region
				71.76 N 3.00 W
				H = 04 37 55.5 h = 33 km MB = 4.9
				D = 22.20 Az = 155 (NEIS)
				PV A 1.4s 9.3nm M = 4.0

Day	Phase		h m s	Remarks
23.	eP	A	04 59 48	Southwestern Ryukyu Islands
				23.84 N 123.44 E
				H = 04 47 16.3 h = 39.6 km MB = 4.8
				D = 84.65 Az = 324 (NEIS)
				PV A 1.6s 11.0nm M = 4.7
23.	eP	A	09 27 44	Northern Sumatra 3.27 N 96.42 E
				H = 09 15 13.5 h = 33 km MB = 4.8
				D = 84.19 Az = 320 (NEIS)
				PV A 1.8s 13.5nm M = 4.8
23.	eP	A	09 56 42	Uzbek SSR 40.37 N 63.63 E
				H = 09 49 32.8 h = 33 km MB = 4.8
				D = 37.16 Az = 304 (NEIS)
23.	ePP	C	11 08 16	West Iran 2.20 S 138.58 E
	ePS	C	17 48	H = 10 48 39.4 h = 33 km
	LmH	B	59.5	MB = 5.2 MS = 5.3 (NEIS)
	LmV	B	12 00.8	D = 114.3
				LmH B 19s 1.3/um M = 5.6
				LmV B 18 1.9/um 5.7
23.	ePKP	A	12 30 29	Tonga 16.4 S 173.1 W
	e	A	30 42	H = 12 10 52 h = 37 km
				D = 145.63 Az = 355 (ISC)
				PKPV A 1.2s 16.3nm
23.	eiP diff	A	14 04 26	West Irian 0.54 N 134.81 E
	ePKIKP	A	08(21)	H = 13 49 58.0 h = 33 km MB=5.8 MS=5.7
	e	A	08 49	D = 109.95 Az = 325 (NEIS)
	ePP	AC	09 02	P diff V A 1.7s 42.4nm
	ePS	C	18 20	PPV A 2.1 47.9nm M = 5.6
	ePPS	C	19 30	LmH B 18 5.8/um 6.2
	eSS	C	24 32	LmV B 20 4.7/um 6.1
	eSSS	C	29 25	
	LmH	B	50.7	
	LmV	B	56.9	

Day	Phase		h m s	Remarks
23.	eP	A	15 49 25	India 21.42 N 88.79 E
	epP	A	49 38	H = 15 38 39.4 h = 22.6 km MB = 5.3
				D = 65.69 Az = 317 (NEIS)
				h = 50 km
				PV A 2.0s 55.6nm M = 5.4
23.	ePS	C	21 12 15	South Sandwich Islands Region
	eSS	C	18 50	59.66 S 26.44 W
	LmH	B	45.0	H = 20 43 13.1 h = 59.2 km MB=5.8 MS=5.2
	LmV	B	45.8	D = 114.20 Az = 25 (NEIS)
				LmH B 22s 0.4/um
				LmV B 20 0.4/um
24.	eP	AB	06 12 02	Northern Sumatra 3.40 N 96.39 E
	ePP	B	15 26	H = 05 59 33.3 h = 33 km MB=5.5 MS=5.0
	eS	B	22 24	D = 84.07 Az = 320 (NEIS)
	LmH	B	56.2	PV A 1.7s 107.0nm M = 5.7
	LmV	B	56.2	LmH B 17.5 0.5/um 4.9
				LmV B 18 0.3/um 4.8
24.	eP	A	08 34 15	Northern Sumatra 3.34 N 96.36 E
				H = 08 21 44.5 h = 42.8 km MB = 4.9
				D = 84.10 Az = 320 (NEIS)
				PV A 1.4s 14.0nm M = 4.9
24.	eP	A	13 57 53	Kurile Islands 43.78 N 147.87 E
	LmV	B	14 37.6	H = 13 45 53.3 h = 33 km MB = 4.8
	LmH	B	37.7	D = 78.55 Az = 333 (NEIS)
				LmH B 14s 0.2/um M = 4.7
				LmV B 14 0.2/um 4.7
24.	eP	A	18 14 35	Northern Sumatra 3.23 N 96.38 E
				H = 18 02 04.0 h = 33 km MB = 4.7
				D = 84.19 Az = 320 (NEIS)
25.	eP	AB	07 05 14	Crete 35.09 N 23.31 E
	eS	B	08 36	H = 07 01 08.0 h = 33 km MB=5.0 MS=5.4
	LmH	B	12.7	D = 17.72 Az = 335 (NEIS)

Day	Phase		h m s	Remarks
cont. 25.	LmV	B	07 13.5	PV A 1.4s 116.0nm M = 4.8
				LmH B 16 3.5/um 4.7
				LmV B 12 3.2/um 5.0
25.	eP	A	07 59 46	South of Honshu, Japan 29.91 N 138.58 E
	eX	A	08 03 13	H = 07 47 46.3 h = 433.3 km MB = 5.5
	ePP	A	03 17.5	D = 87.12 Az = 329 (NEIS)
				PV A 1.4s 34.9nm M = 4.9
				XV A 1.7 27.3nm
				PPV A 1.8 54.1nm M = 5.4
25.	eP diff	AB	19 33 58	West Irian 4.60 S 140.09 E
	ePKIKP	AB	37 47.5	H = 19 18 56.9 h = 33 km
	iPP	B	38 55	MB = 6.1 MS = 7.1 (NEIS)
	PPm	A	39 28	D = 117.2
	ei	B	40 35	P diff V B 16s 1.6/um
	eSKS	B	44 40	PKIKPV A 2.1 172.4nm
	ePKKP	A	48 18	PPV B 11 6.3/um M = 7.3
	eiPS	B	48 30	PPmV A 2.8 965.7/um 7.0
	ePPS	B	49 55	LmH B 19.5 205.0/um 7.8
	e	B	51 45	LmV B 18.5 197.0/um 7.8
	e	B	56 05	
	LmH	B	32.2	
	LmV	B	33.3	
25.	eP	A	19 51 20	West Irian 4.27 S 139.86 E
				H = 19 32 36.5 h = 33 km MB = 5.9
				D = 116.75 Az = 326 (NEIS)
25.	eP	A	21 00 16	West Irian 4.51 S 139.95 E
				H = 20 41 31.3 h = 33 km MB = 5.3
				D = 116.99 Az = 326 (NEIS)
25.	ePn	A	23 30 07	Northern Italy 45.6 N 13.0 E
	ePg	A	30 26	H = 23 28 56 h = 33 km
	eSn	A	30 55	D = 5.1 Az = 350 (ISC)
	eSg	A	31 20	

Day	Phase	h m s	Remarks
26.	ePKIKP A	02 20 41	New Hebrides Islands 13.28 S 167.06 E
			H = 02 01 40.3 h = 208.1 km MB = 5.0
			D = 137.71 Az = 337 (NEIS)
			PKIKPV A 1.4s 14.0nm
26.	LmH B	03 55.4	Talaud Islands 3.76 N 126.90 E
	LmV B	04 08.3	H = 02 57 31.8 h = 36.4 km MB=5.0 MS=4.8
			D = 102.77 Az = 324 (NEIS)
			LmH B 20s 1.0/um M = 5.3
			LmV B 18 0.9/um 5.4
26.	eP AB	10 44 58	Talaud Islands 3.67 N 126.75 E
	ePP B	49 12	H = 10 30 59.4 h = 33 km MB=5.8 MS=6.5
	iSKS B	55 36	D = 102.76 Az = 324 (NEIS)
	iS B	56 44	PV A 1.9s 167.0nm M = 6.4
	eSS B	11 04 20	PPV B 15 1.7/um 6.3
	LmH B	28.9	LmH B 20.5 25.0/um 6.7
	LmV B	41.6	LmV B 18.5 20.5/um 6.7
26.	iPn A	11 14 56.5	Austria 46.18 N 13.14 E
	iPg A	15 14.5	H = 11 13 49.2 h = 33 km MB = 4.0
	iSn A	15 48	D = 4.59 Az = 348 (NEIS)
	iSg A	16 11	PnV A 0.7s 145.6nm
			PgV A 0.8 238.5nm
			SnV A 1.0 255.9nm
			SgV A 1.2 1545.0nm
26.	ePn A	11 37 07.5	Austria 46.16 N 13.20 E
	eSg A	38 20	H = 11 35 59.3 h = 33 km
			D = 4.61 Az = 347 (NEIS)
26.	ePKIKP AB	14 47 59	Loyalty Islands Region 21.91 S 169.87 E
			H = 14 28 16.7 h = 13.6 km
			D = 146.63 Az = 335 (NEIS)
			PKIKPV A 1.3s 17.5nm
26.	iPn A	16 48 46	Austria 46.12 N 13.13 E
	ePg A	49 06	H = 16 47 37.8 h = 33 km
	eSn A	49 37.5	D = 4.64 Az = 348 (NEIS)

Day	Phase	h m s	Remarks
cont. 26.	iSg A	16 50 01	PnV A 0.6s 11.5nm
			PgV A 0.5 15.4nm
			SnV A 0.5 23.1nm
			SgV A 1.2 122.0nm
27.	ePKIKP A	01 32 54	Fiji Islands 17.97 S 178.34 W
	ePKHKP A	32 56.5	H = 01 14 18.7 h = 581.1 km MB = 5.2
			D = 146.44 Az = 349 (NEIS)
			PKHKPV 1.5s 111.0nm
27.	eP A	09 33 45	Southern Iran 29.48 N 52.10 E
			H = 09 26 31.9 h = 8.4 km MB = 4.7
			D = 36.89 Az = 316 (NEIS)
27.	iPn A	14 02 22.5	Austria 46.24 N 13.21 E
	ePg A	02 38	H = 14 01 15.0 h = 33 km
	eSn A	03 13	D = 4.54 Az = 347 (NEIS)
	eSg A	03 37	
27.	eX A	16 13 44	North Atlantic Ocean 59.4 N 30.7 W
	LmH B	24.2	H = 16 08 07 h = 33 km
	LmV B	24.8	D = 25.39 Az = 91 (ISC)
			XV A 1.6s 22.0nm
			LmH B 15 0.25/um
			LmV B 14 0.25/um
27.	ePKP A	16 57 34	Loyalty Islands Region 21.9 S 169.7 E
			H = 16 37 56 h = 33 km
			D = 146.56 Az = 334 (ISC)
27.	eP A	18 14 47	Northern Sumatra 4.56 N 95.88 E
			H = 18 02 40.3 h = 164.5 km MB = 4.7
			D = 82.86 Az = 320 (NEIS)
			traces
27.	ePKIKP A	19 31 14.5	West Irian 4.63 S 140.19 E
	ePP A	32 45	H = 19 12 29.3 h = 33 km MB=5.9 MS=5.6
	LmH B	20 25.0	D = 117.23 Az = 326 (NEIS)

Day	Phase	h m s	Remarks
cont. 27.	LmV B	20 25.0	PPV A 1.6s 27.5nm M = 5.7 LmH B 20 1.2/um 5.5 LmV B 20 1.3/um 5.6
27.	ePKP2 A	20 24 01	Kermadec Islands 30.35 S 177.70 W H = 20 03 33.8 h = 44 km MB = 5.1 (NEIS) D = 158.4 PKP2V A 1.4s 23.2nm
28.			West Irian 4.66 S 140.00 E H = 04 51 18.1 h = 33 km (ISC) D = 117.2
28.			West Irian 4.7 S 140.17 E H = 11 24 41 h = 18 km MB = 5.2 (ISC) D = 117.3
28.	ePKP A	20 28 56	Fiji Islands Region 17.84 S 178.33 W H = 20 10 21.5 h = 596.1 km MB = 5.0 D = 146.32 Az = 349 (NEIS)
29.	eP A	03 26 58.5	Off East Coast of Kamchatka 52.95 N 162.19 E H = 03 15 26.0 h = 42 km MB = 4.9 D = 73.83 Az = 341 (NEIS)
29.	eP A	05 14 13	Mariana Islands Region 21.51 N 143.00 E H = 05 01 16.8 h = 290.8 km MB = 5.4 D = 96.37 Az = 331 (NEIS) PV A 1.5s 25.1nm M = 5.2
29.	+ePKIKP AB	18 50 05	South of Kermadec Islands
	ePKP2 AB	50 51	33.82 S 177.83 W
	ePP B	54 32	H = 18 30 09.1 h = 47.6 km MB=6.1 MS=5.9
	eSKKS B	19 01 20	D = 161.81 Az = 340 (NEIS)
	eSKSP B	04 48	PKIKPV A 2.0s 222.0nm
	LmH B	20 08.1	PKP2V A 1.8 330.0nm
	LmV B	08.6	PPV B 8 0.9/um M = 5.9

Day	Phase	h m s	Remarks
cont. 29.			LmH B 21s 2.2/um M = 6.9 LmV B 20 2.7/um 7.1
30.			Southern Sinkiang Province 37.03 N 78.9 E H = 05 51 08 h = 37 km MB = 4.6 (ISC) D = 48.8
30.	ePKP A	09 47 42	Fiji Islands Region 18.29 S 177.71 W H = 09 29 02.5 h = 569.1 km MB = 4.3 D = 146.87 Az = 349 (NEIS) PKPV A 1.2s 14.2nm
30.	eP A	14 57 46	Southern Sumatra 2.11 S 101.95 E
	e A	59 55	H = 14 44 51.1 h = 137.7 km MB = 5.5
	ePP A	15 01 26	D = 91.83 Az = 320 (NEIS) PV A 2.0s 51.3nm M = 5.4 PPV A 2.5 107.5nm 5.7

Day	Phase		h m s	Remarks
1.	ePn	A	03 05 06	Austria 46.99 N 11.40 E
	iSn	A	05 43.5	H = 03 04 06.0 h = 33 km
	eSg	A	06 02	D = 3.66 Az = 2 (NEIS)
1.	eP	A	11 25 32	North of Svalbard 82.19 N 7.37 W
				H = 11 19 05.7 h = 33 km MB = 5.0
				D = 32.19 Az = 157 (NEIS)
				PV A 1.7s 42.5nm M = 5.1
1.	iP	AB	11 36 16.3	Republic of South Africa 29.52 S 25.18 E
	eS	B	46 28	H = 11 24 05.3 h = 33 km MB=5.9 MS=5.6
	eSS	B	51 42	D = 80.71 Az = 351 (NEIS)
	eSSS	C	55 55	PV A 1.4s 162.8nm M = 5.8
	LmH	B	12 10.6	PV B 4.5 1.2/um 6.2
	LmV	B	15.7	LmH B 16 3.9/um 5.9
				LmV B 15 2.9/um 5.8
2.	eP	A	05 19 54.5	Greece 39.24 N 21.72 E
	e	A	20 05	H = 05 16 42.4 h = 35.7 km MB = 4.8
				D = 13.45 Az = 331 (NEIS)
2.	eP	A	12 48 27	Kurile Islands 44.31 N 149.13 E
	LmV	B	18.0	H = 12 36 26.3 h = 24 km
	LmH	B	18.2	MB = 5.1 MS = 4.6 (NEIS)
				D = 78.4
				PV A 0.9s 15.6nm M = 5.1
				LmH B 18 0.8/um 5.1
				LmV B 18 1.2/um 5.3
2.	eP	A	17 22 03.5	South of Honshu, Japan 32.23 N 142.26 E
				H = 17 09 22.8 h = 53 km MB = 5.0 (NEIS)
				D = 86.7
2.	ePKP2	A	17 44 37	Kermadec Islands 30.40 S 177.15 W
	LmH	B	19 10.0	H = 17 24 07.1 h = 33 km MB = 4.7 (NEIS)
	LmV	B	10.0	D = 158.8
				LmH B 16s 0.3/um M = 5.1
				LmV B 16 0.3/um 5.2

Day	Phase		h m s	Remarks
2.	eP	A	20 14 52	Central Mid-Atlantic Ridge
				8.68 N 39.41 W
				H = 20 04 51.7 h = 33 km MB = 4.9 (NEIS)
				D = 59.2
2.	ePKHKP	A	22 17 00	South of Fiji Islands 23.34 S 179.92 W
	ePKP2	A	17 11	H = 21 58 09.2 h = 564.6 km
				D = 151.30 Az = 345 (NEIS)
3.	iPn	A	04 47 42	Austria 46.3 N 13.4 E
	eSn	A	48 32	H = 04 46 34 h = 0 km (ISC)
	eSg	A	48 57	D = 4.5 (MOX)
				SgV A 0.7s 15.3nm
3.	ePn	A	15 37 20	Austria 46.13 N 13.38 E
	e	A	37 49	H = 15 36 11.4 h = 33 km
	eSn	A	38 14	D = 4.67 Az = 346 (NEIS)
	iSg	A	38 36	PnV A 0.5s 17.3nm
				SnV A 0.9 23.3nm
				SgV A 1.2 69.1nm
3.	eP	A	16 44 33.5	Burma - China Border Region
	eS	B	53 42	24.19 N 98.68 E
	eSS	B	58 18	H = 16 33 23.1 h = 33 km MB=5.3 MS=5.4
	eSSS	B	17 01 28	D = 69.88 Az = 317 (NEIS)
	LmH	B	12.3	PV A 1.2s 20.3nm M = 5.0
	LmV	B	19.7	LmH B 22 3.8/um 5.6
				LmV B 16.5 1.9/um 5.5
3.	ePn	A	16 59 52.5	Austria 46.52 N 12.96 E
	e	A	17 00 21	H = 16 58 48.9 h = 33 km
	eSn	A	00 45	D = 4.22 Az = 348 (NEIS)
	eSg	A	01 08.5	PnV A 0.5s 19.2nm
				SnV A 1.1 24.2nm
				SgV A 1.2 77.2nm
3.	ePKP	A	17 08 54.5	Loyalty Islands Region 22.23 S 170.39 E
				H = 16 49 16.5 h = 58.8 km MB = 5.4
				D = 147.14 Az = 335 (NEIS)
				PKPV A 1.1s 32.2nm

Day	Phase		h m s	Remarks
4.	+iP	A	03 04 50	Eastern Kazakh SSR 49.92 N 78.95 E
	-iPn	A	06 28	H = 02 56 57.7 h = 0 km MB = 5.8
	LmV	B	22.6	D = 41.67 Az = 298 (NEIS)
	LmH	B	22.7	PV A 1.3s 218.0nm M = 5.7
				LmH B 12 0.4/um 4.5
				LmV B 12 0.7/um 4.8
4.	ePKIKP	A	19 20 39	Kermadec Islands Region 28.21 S 178.31 W
	ePKHKP	A	20 50.5	H = 19 01 08.2 h = 196 km MB = 5.3
	+iPKP2	A	21 09.5	D = 156.36 Az = 344 (NEIS)
	ePP	A	24 45	PKIKPV A 2.0s 42.8nm
				PKP2V A 1.3 65.5nm
				PPV A 2.0 34.2nm M = 5.1
4.	ePKP	A	21 57 21	Loyalty Islands Region 21.90 S 169.71 E
				H = 21 37 45.3 h = 50.3 km MB = 4.7
				D = 146.56 Az = 334 (NEIS)
				PKPV A 1.3s 17.5nm
4.	ePKP	A	22 59 38	Tonga Islands 15.37 S 173.95 W
				H = 22 40 11.2 h = 86.5 km MB = 5.2
				D = 144.53 Az = 354 (NEIS)
5.	eP	A	02 59 28	Honshu, Japan 38.83 N 140.65 E
	ePP	A	03 02 32	H = 02 47 16.2 h = 16.1 km MB = 5.1
	LmH	B	32.8	D = 80.3 Az = 330 (NEIS)
	LmV	B	38.2	PV A 1.3s 19.7nm M = 5.0
				LmH B 17 0.3/um 4.7
				LmV B 14 0.25/um 4.7
5.	ePn	A	03 42 42	Austria 46.24 N 13.1 E
	eSn	A	43 35	H = 03 41 30.9 h = 0 km
	eSg	A	43 56	D = 4.51 Az = 348 (ISC)
5.	ePn	A	09 52 49	Austria 46.25 N 13.15 E
	eSn	A	53 41	H = 09 51 39.9 h = 0 km
	eSg	A	54 03	D = 4.52 Az = 348 (ISC)
				PnV A 0.7s 13.4nm
				SnV A 0.9 31.1nm
				SgV A 1.0 43.3nm

Day	Phase		h m s	Remarks
5.	ePKIKP	A	12 15 54	South of Fiji Islands 25.49 S 179.55 E
	ePKHKP	A	16 03	H = 11 57 02.4 h = 510 km MB = 5.4 (NEIS)
	ePKP2	A	16 17	D = 153.2
				PKIKPV A traces
5.	eP	A	18 40 21.5	Andreanof Islands, Aleutian Is.
	epP	A	40 37	51.33 N 179.16 W
	e	A	41 04	H = 18 28 28.0 h = 53.9 km MB = 5.2 (NEIS)
				D = 78.0 h = 54 km
				PV A 1.4s 27.9nm M = 5.0
5.	ePKP	AB	20 11 50	Easter Island Cordillera
	LmV	B	21 12.7	50.14 S 114.82 W
	LmH	B	13.2	H = 19 52 11.4 h = 33 km
				MB = 5.3 MS = 5.7 (NEIS)
				D = 146.4
				PKPV A 1.8s 67.5nm
				PKPV B 6 0.6/um
				LmH B 20 1.1/um M = 5.6
				LmV B 20 1.3/um 5.7
6.	eP	A	03 04 54	Kashmir - Tibet Border Region
				32.28 N 78.28 E
				H = 02 55 51.9 h = 56 km MB = 4.8 (NEIS)
				D = 51.4
				PV A 1.3s 19.7nm M = 5.0
6.	eP	A	12 21 52	Off East Coast of Kamchatka
				52.41 N 159.99 E
				H = 12 10 18.8 h = 51.3 km MB = 4.8
				D = 73.89 Az = 340 (NEIS)
6.	LmH	B	12 46.6	Samoa Region 14.83 S 174.22 W
	LmV	B	50.0	H = 11 10 11.8 h = 46 km MB = 5.1 (ISC)
				D = 144.0
				LmH B 20s 0.45/um M = 5.2
				LmV B 16 0.3/um 5.1

Day	Phase		h m s	Remarks
6.	ePKP	A	18 30 55	New Hebrides Islands 20.39 S 169.43 E
	epPKP	A	31 17	H = 18 11 27.5 h = 96.1 km MB=4.9 (NEIS)
				D = 144.7 h = 79 km
8.	ePKP	A	02 19 17	New Hebrides Islands 19.43 S 169.22 E
				H = 01 59 56.2 h = 118.3 km
				D = 144.15 Az = 336 (NEIS)
8.	eP	AB	11 59 05	Near East Coast of Honshu, Japan
	epP	AB	59 18	40.23 N 142.28 E
	ePP	B	12 02 06	H = 11 47 01.8 h = 55 km MB = 5.4
	eS	B	09 04	D = 79.72 Az = 331 (NEIS)
	LmH	B	35.5	h = 48 km
	LmV	B	39.0	PV A 2.0s 94.0nm M = 5.4
				PV B 5 0.7/um 5.9
				LmH B 17.5 3.4/um 5.7
				LmV B 17 2.3/um 5.6
8.	eP	A	15 24 04	Ionian Sea 37.61 N 20.71 E
	eX	A	24 11	H = 15 20 39.7 h = 49.2 km MB = 4.5
				D = 14.55 Az = 336 (NEIS)
				XV A 1.1s 14.1nm
8.	eP	A	18 12 05	South of Honshu, Japan 33.44 N 140.92 E
	epP	A	12 22.5	H = 17 59 32.4 h = 50.4 km MB = 5.0
				D = 85.08 Az = 330 (NEIS)
				h = 67 km
9.	eSg	A	01 47 23	Federal Republic of Germany
				51.0 N 6.63 E
				H = 01 45 34
				D = 3.18 Az = 95 (ISC)
9.	ePKP2	A	05 50 33.5	Kermadec Islands Region
				29.36 S 179.25 W
				H = 05 30 44.9 h = 340 km MB = 5.3
				D = 157.22 Az = 342 (NEIS)

Day	Phase		h m s	Remarks
9.	ePKHKP	A	08 17 32	Fiji Islands Region 21.11 S 178.74 W
				H = 07 58 43.4 h = 537.2 km MB = 5.1
				D = 149.42 Az = 347 (NEIS)
9.	e	A	09 40 08.5	Turkey 38.33 N 40.46 E
				H = 09 34 42.7 h = 33 km MB = 4.2
				D = 23.82 Az = 310 (NEIS)
9.	eP	A	22 38 03	Ryukyu Islands 28.35 N 129.25 E
	LmH	B	23 13.2	H = 22 25 37.5 h = 60.6 km MB = 5.3 (NEIS)
	LmV	B	20.1	D = 83.8
				PV A 1.5s 40.2nm M = 5.2
				LmH B 19 0.7/um 5.1
				LmV B 16 0.5/um 5.0
10.	iPn	A	04 12 32.8	Austria 46.23 N 13.17 E
	eiPg	A	12 52	H = 04 11 25.4 h = 33 km MB = 4.9
	iSn	A	13 23.3	D = 4.54 Az = 347 (NEIS)
	eiSg	A	13 45.5	PnV A 0.8s 96.2nm
				PgV A 0.9 120.6nm
				SnV A 1.0 157.5nm
				SgV A 1.2 455.3nm
10.	eP	A	09 29 56	Northern Sumatra 3.43 N 96.41 E
				H = 09 17 27 h = 44 km MB = 4.8
				D = 84.06 Az = 320 (ISC)
10.	eP	A	10 29 17	Tadzhik SSR 39.28 N 70.45 E
				H = 10 21 25.6 h = 32.1 km MB = 5.2
				D = 42.10 Az = 306 (NEIS)
				PV A 1.6s 22.0nm M = 4.6
10.	-iP	ABC	11 48 12	Sea of Okhotsk 47.36 N 145.72 E
	ipP	AB	49 45	H = 11 37 12.8 h = 387.1 km MB = 5.8
	isP	B	50 26	D = 74.68 Az = 332 (NEIS)
	epPP	B	52 20	h = 422 km
	ePPP	B	52 49	PV A 1.5s 678.4nm M = 5.9
	esPP	C	53 10	PH A 1.7 464.5nm 6.0
	eS	B	57 12	PV B 4 2.6/um 6.1

Day	Phase		h m s	Remarks
cont.				
10.	eSKS	B	11 57 40	LmH B 12s 1.0/um
	esS	B	59 56	LmV B 14 1.4/um
	esPPS	C	12 00 35	
	eSSSS	C	07 54	
	LmV	B	23.4	
	LmH	B	23.5	
10.	+iP	AB	16 49 02.5	Pakistan 29.96 N 68.13 E
	e	A	49 16.5	H = 16 40 35.7 h = 33 km MB = 5.3
	LmH	B	17 13.3	D = 46.53 Az = 313 (NEIS)
	LmV	B	15.5	PV A 1.7s 121.0nm M = 5.6
				LmH B 15 0.6/um 4.7
				LmV B 12 0.5/um 4.8
10.	ePKP	A	22 28 07	Fiji Islands Region 16.26 S 179.75 W
				H = 22 09 25.3 h = 485 km MB = 4.8
				D = 144.50 Az = 348 (NEIS)
				PKPV A 1.3s 43.6nm
10.	ePn	A	22 37 29.5	Switzerland 46.80 N 9.86 E
	ePg	A	37 47	H = 22 36 28.0 h = 12.8 km
	iSn	A	38 18	D = 4.02 Az = 16 (NEIS)
	iSg	A	38 40	
	i	A	38 47	
11.	ePKP	A	00 49 33	Tuamatu Archipelago Region
				22.67 S 138.61 W
				H = 00 29 54.8 h = 0 km MB = 5.0
				D = 143.70 Az = 32 (NEIS)
11.	eP	A	05 22 50	Mid - Indian Rise 22.12 S 69.36 E
				H = 05 09 59.5 h = 33 km MB = 5.4
				D = 88.49 Az = 327 (NEIS)
				PV A 1.9s 37.9nm M = 5.4
11.	eP	A	07 41 00	Mid - Indian Rise 22.08 S 69.26 E
	e	A	41 07	H = 07 28 09.6 h = 33 km
				D = 88.41 Az = 327 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	10 34 19.5	Kurile Islands 46.07 N 153.35 E
				H = 10 22 21.5 h = 33 km MB = 4.7
				D = 78.14 Az = 336 (NEIS)
11.	e	A	12 33 43	Northern Sumatra 3.37 N 96.41 E
				H = 12 21 09.7 h = 57.1 km MB = 5.1
				D = 84.11 Az = 320 (NEIS)
11.	ePn	A	13 24 54	Austria 46.1 N 12.9 E
	ePg	A	25 19	H = 13 23 40 h = 0 km
	eSn	A	25 44	D = 4.62 Az = 350 (ISC)
	eSg	A	26 08	
11.	ePP	A	14 31 44	Ionian Sea 37.2 N 20.30 E
				H = 14 27 59 h = 0 km (ISC)
				D = 14.8
11.	eP	A	14 43 06.5	Ionian Sea 37.16 N 20.58 E
				H = 14 39 28 h = 10 km
				D = 14.93 Az = 337 (ISC)
11.	ePP	A	14 53 33	Ionian Sea 37.1 N 20.3 E
				H = 14 49 50 h = 28 km (ISC)
				D = 14.9
11.	eiP	AB	17 07 04	Panama 7.34 N 78.47 W
	ePP	B	10 14	H = 16 54 31.8 h = 21.9 km MB=6.3 MS=6.7
	iS	B	17 32	D = 84.44 Az = 40 (NEIS)
	iPS	B	18 14	PV A 4.0s 3726.7nm M = 6.9
	iSS	B	23 12	PV B 10 9.6/um 6.9
	eP'P'	A	33 28	SH B 13.5 17.8/um 7.0
	LmH	B	38.1	LmH B 25 47.9/um 6.8
	LmV	B	40.8	LmV B 21 46.0/um 6.9
11.	eP	A	17 27 31	Panama 7.29 N 78.36 W
				H = 17 14 59.6 h = 33 km MB = 4.9
				D = 84.41 Az = 40 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	18 05 42	Ionian Sea 37.1 N 20.4 E
				H = 18 02 06 h = 15 km
				D = 14.92 Az = 338 (ISC)
11.	eP	A	18 32 53.5	Panama 7.39 N 78.20 W
				H = 18 20 23.7 h = 33 km MB = 5.7
				D = 84.23 Az = 40 (NEIS)
				PV A 1.6s 66.0nm M = 5.6
11.	+iP1	AB	20 54 21.7	Panama 7.41 N 78.13 W
	iP2	A	54 27.4	H = 20 41 47.5 h = 2.7 km MB=6.2 MS=7.0
	eiP3	A	54 34	D = 84.17 Az = 40 (NEIS)
	ePP	B	57 50	P1V A 1.5s 95.5nm M = 5.8
	iS	B	21 04 49	P2V A 1.4 325.6nm 6.4
	iPS	B	05 54	P3V A 1.5 532.7nm 6.6
	iS3	B	10 28	PV B 11 11.2/um 7.0
	ePKKP3	A	12 48	PPV B 9 5.5/um 7.1
	eP'P'	A	20 48	SH B 11.5 12.5/um 6.9
	LmV	B	34.9	LmH B 19 49.9/um 6.9
	LmH	B	35.0	LmV B 20 65.5/um 7.1
11.	eP	A	21 10 54.5	Panama 7.04 N 78.13 W
				H = 20 58 23.7 h = 33 km MB = 5.5
				D = 84.46 Az = 40 (NEIS)
				PV A 1.2s 24.4nm M = 5.3
11.	eP	A	21 30 49.5	Panama 7.07 N 77.99 W
				H = 21 18 18.7 h = 33 km MB = 4.9
				D = 84.35 Az = 40 (NEIS)
				traces
11.	eP	A	22 15 51	Panama 7.45 N 78.36 W
				H = 22 03 14.5 h = 7.5 km MB = 5.4
				D = 84.29 Az = 40 (NEIS)
11.	eP	A	22 23 17	Panama 7.11 N 78.27 W
	e	A	23 20.5	H = 22 10 45.8 h = 33 km MB = 4.9
				D = 84.49 Az = 40 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	22 45 16.5	Panama 7.00 N 78.18 W
				H = 22 32 45.5 h = 33 km MB = 5.0
				D = 84.51 Az = 40 (NEIS)
12.	eP	A	00 23 02.5	Panama 7.05 N 78.09 W
				H = 00 10 31.5 h = 33 km MB = 4.8
				D = 84.42 Az = 40 (NEIS)
12.	eP	A	00 29 15	Panama 7.44 N 78.56 W
				H = 00 16 43.1 h = 33 km MB = 5.2
				D = 84.42 Az = 40 (NEIS)
12.	eP	A	02 48 52	Panama 7.11 N 77.99 W
				H = 02 36 15.8 h = 21.1 km MB = 5.0
				D = 84.31 Az = 40 (NEIS)
12.	eP	A	03 22 19	Tibet 33.74 N 85.56 E
				H = 03 12 48.0 h = 33 km MB = 4.8
				D = 55.03 Az = 312 (NEIS)
12.	ePn	A	04 42 11	Yugoslavia 45.71 N 15.19 E
	eSn	A	43 12	H = 04 40 49.7 h = 33 km
	eSg	A	43 43	D = 5.49 Az = 335 (NEIS)
12.	eP	A	06 31 14	Taiwan Region 22.95 N 122.15 E
	epP	A	31 27	H = 06 18 43.2 h = 39.6 km MB = 4.6
				D = 84.66 Az = 323 (NEIS)
				h = 48 km
12.	eP	A	06 37 01	Panama 7.34 N 78.04 W
	e	A	37 07.5	H = 06 24 33.2 h = 20.9 km MB = 5.0
				D = 84.17 Az = 40 (NEIS)
12.	iPn	A	08 05 58.2	Austria 46.18 N 13.22 E
	iSn	A	06 48.2	H = 08 04 50.4 h = 33 km
	eiSg	A	07 11.5	D = 4.59 Az = 347 (NEIS)
				PnV A 0.7s 34.5nm
				SnV A 0.8 42.3nm
				SgV A 1.2 105.7nm

Day	Phase		h m s	Remarks
12.	eP	A	11 20 38	Panama - Colombia Border Region
				7.25 N 77.89 W
				H = 11 08 08.1 h = 33 km MB = 4.8
				D = 84.14 Az = 40 (NEIS)
12.	eP	A	11 54 53	Northern Sumatra 4.2 N 27.2 E
				H = 11 42 20 h = 10 km MB = 4.9
				D = 83.98 Az = 320 (ISC)
12.	eP	A	14 55 41	Panama 7.23 N 78.30 W
	LmH	B	15 30.1	H = 14 43 10.6 h = 33 km MB=5.3 MS=4.8
	LmV	B	32.5	D = 84.41 Az = 40 (NEIS)
				PV A 1.3s 30.6nm M = 5.3
				LmH B 20 0.25/um 4.6
				LmV B 19 0.35/um 4.8
12.	eP	A	15 17 16	Panama 7.30 N 78.25 W
				H = 15 04 44.8 h = 33 km MB = 4.9
				D = 84.33 Az = 40 (NEIS)
13.	eP	A	01 38 39	Panama 7.38 N 78.09 W
				H = 01 26 09.1 h = 33 km MB = 5.2
				D = 84.17 Az = 40 (NEIS)
				PV A 1.6s 27.5nm M = 5.2
13.	ePKP2	A	03 22 24	Kermadec Islands 30.39 S 177.74 W
				H = 03 01 54.6 h = 33 km MB = 5.1
				D = 158.59 Az = 344 (NEIS)
				PKP2V A 1.4s 32.6nm
13.	+iPn	A	12 12 04	Yugoslavia 45.85 N 15.13 E
	ePg	A	12 29	H = 12 10 45.3 h = 33 km MB = 3.4
	eSn	A	13 05	D = 5.34 Az = 335 (NEIS)
	iSg	A	13 36.5	PV A 0.8s 30.8nm M = 4.9
	LmH	B	13.8	LmH B 7 0.6/um 3.4
	LmV	B	14.1	

Day	Phase		h m s	Remarks
13.	eP	AB	15 30 31	Norwegian Sea 72.61 N 3.54 E
	eS	B	34 36	H = 15 25 35.6 h = 33 km MB=5.2 MS=5.3
	LmH	B	38.6	D = 22.33 Az = 166 (NEIS)
	LmV	B	40.4	PV A 1.5s 151.0nm M = 5.2
				SH B 13 3.3/um 5.5
				LmH B 18.5 3.9/um 4.9
				LmV B 14 3.5/um 5.1
13.	eP	A	15 40 17	Norwegian Sea 72.69 N 4.50 E
				H = 15 35 20.5 h = 33 km MB = 4.8
				D = 22.35 Az = 168 (NEIS)
				PV A 1.2s 30.5nm M = 4.6
13.	eP	AB	17 04 48	Norwegian Sea 72.68 N 3.72 E
	eS	B	08 52	H = 16 59 52.6 h = 33 km MB = 5.0
	LmH	B	12.8	D = 22.39 Az = 167 (NEIS)
	LmV	B	14.8	PV A 2.0s 111.0nm M = 5.0
				LmH B 19 1.6/um 4.5
				LmV B 14 1.5/um 4.7
13.	eP	A	18 58 39	Kashmir - Tibet Border Region
				35.73 N 79.63 E
				H = 18 49 43.1 h = 44 km MB = 4.6
				D = 50.04 Az = 310 (NEIS)
13.	eP	A	20 41 07	Ionian Sea 37.39 N 20.49 E
				H = 20 37 25.8 h = 49.2 km MB = 4.4
				D = 14.69 Az = 337 (NEIS)
				PV A 0.9s 15.6nm
14.	eP	AB	01 45 06	Panama 7.38 N 77.99 W
	eS	B	55 28	H = 01 32 34.8 h = 33 km MB=5.5 MS=5.6
	ePS	B	56 06	D = 84.10 Az = 40 (NEIS)
	eSS	B	02 01 00	PV A 1.6s 54.9nm M = 5.5
	LmV	B	18	LmH B 21 2.2/um 5.5
	LmH	B	18.2	LmV B 22 2.7/um 5.6

Day	Phase		h m s	Remarks
14.	eiPn	A	05 40 42.5	Austria 46.24 N 13.27 E
	iPg	A	40 58	H = 05 39 35.0 h = 33 km MB = 4.6
	iSn	A	41 33	D = 4.54 Az = 347 (NEIS)
	iSg	A	42 00	PnV A 0.8s 115.4nm
	LmH	B	42.4	LmH B 7s 2.6/um M = 4.0
	LmV	B	42.6	LmV B 6.5 1.4/um
14.	eP	AB	07 27 28	Bali Island Region 8.17 S 114.88 E
	e	A	31 36.5	H = 07 13 24.0 h = 39.7 km MB=6.2 MS=6.5
	ePP	B	31 39	D = 104.69 Az = 320 (NEIS)
	eSKS	B	38 04	PV B 12s 1.1/um M = 6.7
	eS	B	39 18	PPV B 10 3.1/um 6.9
	ePS	B	40 50	PKKPV A 1.5 30.2nm
	ePKKP	A	43 32	LmH B 21 9.6/um 6.3
	eSS	C	46 34	LmV B 21.5 10.3/um 6.4
	eP'P'	A	51 34	
	LmV	B	08 19.2	
	LmH	B	22.4	
14.	eP	A	10 37 49	Bali Island Region 8.13 S 114.86 E
	ePP	A	41 53	H = 10 23 45.8 h = 33 km MB=5.9 MS=5.5
	LmH	B	11 32.6	D = 104.64 Az = 320 (NEIS)
	LmV	B	36.7	LmH B 19s 0.4/um M = 5.0
				LmV B 18 0.3/um 4.9
14.	e	A	12 27 20	Ionian Sea 37.22 N 20.34 E
	LmH	B	35.8	H = 12 25 10.8 h = 64 km (CSEM)
	LmV	B	35.9	D = 14.80
				LmH B 12s 0.5/um
				LmV B 12 0.5/um
14.	eP	A	19 15 22.5	Panama 7.31 N 78.14 W
	LmH	C	50.0	H = 19 02 51 h = 15 km MB = 5.0
	LmV	C	51.4	D = 84.25 Az = 40 (ISC)
				LmH C 18s 0.45/um M = 4.8
				LmV C 20 0.3/um 4.7

Day	Phase		h m s	Remarks
14.	e(P)	A	19 19 03	Panama 7.23 N 78.5 W
				H = 19 06 25 h = 11 km MB = 4.7
				D = 84.55 Az = 40 (ISC)
14.	eP	A	19 36 59.5	South Indian Ocean 36.25 S 43.36 E
				H = 19 23 57.8 h = 33 km MB = 5.1
				D = 90.93 Az = 340 (NEIS)
14.	eP	A	21 28 27	Kashmir - Tibet Border Region
	LmH	B	48.4	35.64 N 79.48 E
	LmV	B	52.0	H = 21 19 32.3 h = 33 km MB = 4.5
				D = 50.0 Az = 310 (NEIS)
				LmH B 19s 0.45/um M = 4.5
15.	eP	A	00 15 10	Kashmir - Tibet Border Region
	e	A	15 13.5	35.79 N 79.43 E
	LmH	C	50.7	H = 00 06 18.3 h = 47.1 km MB = 4.5
	LmV	C	50.8	D = 49.88 Az = 310 (NEIS)
				LmH C 15s 0.35/um M = 4.3
				LmV C 17 0.35/um 4.4
15.	eP	A	00 48 02	Panama 7.41 N 78.10 W
				H = 00 35 32.4 h = 33 km MB = 5.3
				D = 84.15 Az = 40 (NEIS)
				PV A 1.5s 25.2nm M = 5.2
15.	eP	A	05 13 07	Panama 7.28 N 78.34 W
				H = 05 00 35.9 h = 33 km MB = 5.1
				D = 84.41 Az = 40 (NEIS)
15.	e	A	12 11 18.5	Turkey 39.28 N 28.99 E
	LmH	B	16.6	H = 12 06 58.7 h = 10 km (CSEM)
	LmV	B	19.2	D = 16.68
				LmH B 15s 0.45/um M = 3.8
				LmV B 14 0.35/um 3.9
15.	eP	A	12 19 57	Southern Sinkiang Province 39.5 N 75.5 E
				H = 12 11 50 h = 126 km
				D = 45.17 Az = 306 (ISC)

Day	Phase		h m s	Remarks
15.	iPn	A	12 59 58.8	Austria 46.26 N 13.23 E
	eiPg	A	13 00 18.5	H = 12 58 51.1 h = 10 km (CSEM)
	iSn	A	00 49	D = 4.51
	iSg	A	01 12	PnV A 0.7s 65.1nm
				PgV A 0.7 80.5nm
				SnV A 1.0 122.0nm
				SgV A 1.2 422.8nm
15.	eP	A	20 29 02	Turkey 37.56 N 36.05 E
	eS	B	33 04	H = 20 24 08.8 h = 33 km MB = 4.7
	LmH	B	40.2	D = 21.77 Az = 315 (NEIS)
	LmV	B	40.2	PV A 1.2s 14.2nm M = 4.3
				LmH B 13 0.5/um 4.1
				LmV B 16 0.6/um 4.3
16.	ePKP2	A	02 31 01.5	Kermadec Islands 30.20 s 177.75 W
				H = 02 10 30.6 h = 14 km MB = 5.0 (NEIS)
				D = 158.5
16.	eP	A	03 03 42	Northern Sumatra 3.45 N 96.50 E
				H = 02 51 10.3 h = 19.1 km MB = 5.0
				D = 84.10 Az = 320 (NEIS)
				PV A 1.5s 15.1nm M = 5.0
16.	eP	A	15 12 48	Kashmir - Tibet Border Region
	LmH	B	32.7	35.74 N 79.49 E
	LmV	B	35.4	H = 15 03 53.4 h = 33 km MB = 4.8
				D = 49.95 Az = 310 (NEIS)
				PV A traces
				LmH B 19s 0.4/um M = 4.4
16.	ePP	A	16 18 47	Near Coast of Central Chile
	LmV	B	17 02.3	31.52 S 71.31 W
	LmH	B	03.0	H = 15 59 32.3 h = 60 km MB = 5.4 (NEIS)
				D = 109.5
				PPV A 1.4s 25.6nm M = 5.7
				LmH B 20 0.4/um
				LmV B 20 0.5/um

Day	Phase		h m s	Remarks
17.	eP	AB	02 18 14.5	South of Panama 5.80 N 82.74 W
	eSKS	B	28 48	H = 02 05 22.0 h = 25 km MB=5.3 MS=5.5
	eSS	B	34 58	D = 88.32 Az = 39 (NEIS)
	LmH	B	52.1	PV A 1.6s 16.5nm M = 5.1
	LmV	B	52.2	LmH B 21 2.2/um 5.5
				LmV B 21 2.7/um 5.7
17.	eP1	A	04 24 22	Ascension Island Region 6.89 S 12.47 W
	eS	B	32 44	H = 04 17 11.7 h = 33 km MB=5.1 MS=5.3
	ePS	B	33 00	D = 60.98 Az = 17 (NEIS)
	eSS	B	36 28	P1V A 1.4s 14.0nm M = 4.9
	LmH	B	45.5	P2V A 1.5 40.2nm 5.3
	LmV	B	52.3	LmH B 23.5 2.4/um 5.3
				LmV B 18 1.9/um 5.3
17.	eP	A	05 36 10	Panama 7.10 N 77.99 W
				H = 05 23 38.8 h = 22 km MB=5.1 MS=4.6
				D = 84.32 Az = 40 (NEIS)
				PV A 1.4s 9.3nm M = 4.8
17.	ePKIKP	A	05 51 27.5	West Irian 4.61 S 139.95 E
	ePP	B	52 36	H = 05 32 43.2 h = 33 km MB=5.6 MS=5.5
	ePS	B	06 02 20	D = 117.08 Az = 326 (NEIS)
	LmH	B	45.3	LmH B 19s 1.6/um M = 5.7
	LmV	B	47.1	LmV B 19 2.0/um 5.8
17.	ePn	A	06 59 27	Austria 46.3 N 13.0 E
	ePg	A	59 43	H = 06 58 20
	eSn	A	07 00 14.5	D = 4.48 Az = 348 (ISC)
	eSg	A	00 45	SgV A 1.2s 24.4nm
17.	eP	A	08 44 08	Southern Iran 29.67 N 51.47 E
				H = 08 36 58.5 h = 29.2 km MB = 4.7
				D = 36.37 Az = 317 (NEIS)
17.	ePn	A	09 14 36	Switzerland 46.77 N 9.65 E
	iPg	A	14 52	H = 09 13 37.3 h = 63.8 km MB = 4.8
	iSn	A	15 24	D = 4.10 Az = 18 (NEIS)
	iSg	A	15 45	LmH B 5s 1.8/um

Day	Phase		h m s	Remarks
cont. 17.	LmH	B	09 16.6	LmV B 5 1.9/um
	LmV	B	16.6	
17.	eP	A	09 20 48	Luzon, Philippine Islands
				18.68 N 120.16 E
				H = 09 08 07.5 h = 60.1 km MB = 4.9
				D = 86.93 Az = 323 (NEIS)
				traces
17.	ePKP	A	15 48 10.5	Tonga Islands 15.90 S 173.96 W
				H = 15 28 45.2 h = 116.2 km MB = 4.8
				D = 145.05 Az = 354 (NEIS)
17.	+iPKIKP	AB	21 25 25	New Britain Region 4.16 S 152.76 E
	ePP	B	27 00	H = 21 06 32.1 h = 53.1 km MB=6.0 MS=6.6
	i	A	27 08	D = 123.37 Az = 331 (NEIS)
	ePPP	B	29 49	PKIKPV A 1.2s 171.0nm
	eSKS	C	32 15	PPV B 9 2.8/um M = 8.0
	eSKKS	C	33 52	PKKPV A 1.4 37.2nm
	ePKKP	A	35 16	PKKSV A 1.6 33.0nm
	ePS	B	37 00	LmH B 20 16.8/um 6.7
	ePKKS	AB	39 07.5	LmV B 20 20.1/um 6.8
	eSS	C	44 20	
	LmH	B	22 21.5	
	LmV	B	21.5	
17.	ePKIKP	A	21 54 29	New Britain Region 4.26 S 152.88 E
				H = 21 35 36.2 h = 56.4 km MB = 5.2
				D = 123.52 Az = 331 (NEIS)
18.	eP	A	02 21 02	Southern Greece 36.71 N 23.35 E
				H = 02 17 11.9 h = 66.1 km MB = 4.2
				D = 16.29 Az = 333 (NEIS)
18.	eP	A	03 49 16	Near S. Coast of Honshu, Japan
				34.08 N 137.65 E
				H = 03 37 25.7 h = 332.4 km MB = 4.3
				D = 83.15 Az = 329 (NEIS)
				traces

Day	Phase		h m s	Remarks
18.	ePKHKP	A	04 09 37.5	Fiji Islands Region 20.79 S 178.41 W
				H = 03 50 39.2 h = 449.9 km MB = 4.5
				D = 149.17 Az = 348 (NEIS)
				PKHKPV A 1.1s 8.1nm
18.	ePKIKP	A	07 02 42	Fiji Islands Region 18.50 S 177.71 W
	ePKHKP	A	02 44.5	H = 06 44 04.4 h = 567.2 km MB = 4.8
	ePKP2	A	02 47.5	D = 147.08 Az = 349 (NEIS)
				PKHKPV A 1.1s 32.2nm
				PKP2V A 1.4 23.2nm
18.	e	A	10 57 07	Czechoslovakia 49.38 N 18.46 E
	e	A	58 07	H = 10 55 49.2 h = 33 km
				D = 4.59 Az = 289 (NEIS)
18.	eP	A	13 33 58.5	Greece 38.64 N 20.42 E
	LmH	B	40.4	H = 13 30 47.4 h = 30.8 km MB = 4.5
	LmV	B	40.4	D = 13.53 Az = 335 (NEIS)
				PV A 0.8s 7.7nm M = 4.7
				LmH B 12 0.9/um 4.0
				LmV B 12 1.0/um
18.	ePn	A	13 40 26	Northern Italy 46.61 N 12.91 E
	ePg	A	40 43	H = 13 39 23.5 h = 33 km
	eSn	A	41 15.5	D = 4.13 Az = 348 (NEIS)
	eSg	A	41 40	PnV A 0.6s 11.5nm
				PgV A 0.6 13.4nm
				SnV A 0.6 17.2nm
				SgV A 1.1 22.2nm
18.	eP	A	17 23 43	Northern Sumatra 3.27 N 96.36 E
				H = 17 11 14.1 h = 33 km MB = 4.8
				D = 84.16 Az = 320 (NEIS)
19.	ePKHKP	A	21 07 43	Fiji Islands Region 21.46 S 179.28 W
	ePKP2	A	07 50	H = 20 49 00.1 h = 603.5 km MB = 5.0
				D = 149.64 Az = 346 (NEIS)

Day	Phase		h m s	Remarks
20.	eP	A	01 00 20	Kurile Islands 48.25 N 154.97 E
				H = 00 48 32.2 h = 34.5 km MB = 5.1 (NEIS)
				D = 76.5
				PV A 1.1s 40.4nm M = 5.3
20.	e	A	01 31 36	Easter Island Cordillera
	e	A	33 14	21.69 S 113.24 W
				H = 01 12 07.2 h = 33 km MB=5.3 MS=5.8
				D = 128.45 Az = 42 (NEIS)
20.	eP	A	01 35 25	Southern Sumatra 4.73 S 101.82 E
	ePP	C	39 10	H = 01 22 09.6 h = 33 km MB=5.6 MS=5.8
	eS	C	46 30	D = 93.75 Az = 320 (NEIS)
	LmH	B	02 17.5	PV A 2.2s 43.6nm M = 5.5
	LmV	B	28.1	LmH B 21 1.5/um 5.4
				LmV B 18 1.6/um 5.5
20.	eP	A	05 40 30.5	East of Severnaya Zemlya 78.04 N 126.23 E
	LmH	C	58.0	H = 05 32 11.0 h = 33 km MB=4.8 MS=4.6
	LmV	C	06 03.5	D = 45.66 Az = 306 (NEIS)
				PV A 1.4s 27.9nm M = 5.0
20.	LmH	B	16 08.9	Easter Island Cordillera 21.92 S 113.46 W
	LmV	B	09.0	H = 14 52 52.7 h = 33 km MB = 5.0 (ISC)
				D = 128.7
				LmV B 17s 0.25/um M = 5.0
20.	eP	A	18 05 13	North Atlantic Ridge 44.32 N 28.24 W
	LmV	B	15.0	H = 17 59 29.0 h = 33 km MB = 4.6
	LmH	B	15.6	D = 27.41 Az = 62 (NEIS)
				PV A 1.5s 20.1nm M = 4.6
				LmH B 17 0.5/um 4.2
				LmV B 20 0.9/um 4.5
20.	ePKIKP	A	23 10 57	Kermadec Islands Region 31.19 S 179.98 W
	+iPKP2	A	11 35.5	H = 22 51 43.1 h = 369.8 km MB = 5.2
	ePP	A	15 14	D = 158.72 Az = 339 (NEIS)
				PKP2V A 1.6s 110.0nm

Day	Phase		h m s	Remarks
21.	eP	A	04 11 14	Panama 7.45 N 78.28 W
				H = 03 58 44.6 h = 33 km MB=5.1 MS=4.1
				D = 84.24 Az = 40 (NEIS)
				PV A 1.7s 24.2nm M = 5.1
21.	eP	AB	15 21 56	Burma - China Border Region
	ePP	C	24 36	24.78 N 98.70 E
	eS	B	31 05	H = 15 10 45.6 h = 9 km MB=5.8 MS=6.3
	ePS	C	32 02	D = 69.46 Az = 317 (NEIS)
	eSS	B	35 32	PV A 1.6s 203.3nm M = 6.0
	eSSS	B	38 28	SH B 12.5 3.1/um 6.3
	LmH	B	49.6	LmH B 21 24.5/um 6.4
	LmV	B	56.8	LmV B 17 16.2/um 6.4
22.	eP	A	07 09 10.5	Kurile Islands 46.18 N 151.45 E
	epP	A	09 31	H = 06 57 22.1 h = 79 km MB = 5.3
				D = 77.49 Az = 335 (NEIS)
				h = 80 km
22.	LmV	B	13 06.7	West Irian 4.68 S 140.25 E
	LmH	B	07.4	H = 11 53 58.9 h = 33 km MB = 5.3 (ISC)
				D = 117.4
				LmH B 20s 0.4/um M = 4.9
				LmV B 18 0.5/um 5.1
22.	eP	A	16 47 51	Panama 7.32 N 78.32 W
	LmH	B	17 22.0	H = 16 35 17.8 h = 13.4 km MB=5.1 MS=4.6
	LmV	B	22.0	D = 84.35 Az = 40 (NEIS)
				LmH B 20s 0.3/um M = 4.6
				LmV B 20 0.4/um 4.8
23.	eP	A	01 55 05	Burma - China Border Region
	LmH	B	02 22.7	24.89 N 98.68 E
	LmV	B	30.0	H = 01 43 58.9 h = 33 km MB=5.0 MS=4.9
				D = 69.36 Az = 317 (NEIS)
				LmH B 23s 0.9/um M = 4.9
				LmV B 14 0.5/um 5.0

Day	Phase		h m s	Remarks
23.	eP	A	02 05 41	Tibet 31.66 N 83.93 E
				H = 01 56 06.7 h = 29.4 km MB = 4.8
				D = 55.41 Az = 313 (NEIS)
23.	+iP	A	02 40 46.5	Eastern Kazakh SSR 49.79 N 78.05 E
	ePn	A	42 19.5	H = 02 32 57.9 h = 0 km MB = 5.1
				D = 41.22 Az = 298 (NEIS)
				underground explosion (UPP)
23.	ePKIKP	A	06 43 42.5	Kermadec Islands 30.08 S 178.06 W
	ePKP2	A	44 16	H = 06 23 51.7 h = 60.9 km MB = 5.4
				D = 158.21 Az = 343 (NEIS)
				PKP2V A 1.6s 35.7nm
23.	ePKHKP	A	06 58 42	Fiji Islands Region 19.67 S 178.16 W
				H = 06 40 01.5 h = 595.2 km MB = 4.9
				D = 148.13 Az = 348 (NEIS)
				PKHKPV A 1.4s 18.6nm
23.	eP	A	07 49 35	Southeast of Shikoku, Japan
	e	A	49 45	30.29 N 132.40 E
				H = 07 37 07.0 h = 34 km MB = 4.7
				D = 83.97 Az = 327 (NEIS)
23.	LmH	B	09 31.6	Eastern Island Region 28.70 S 112.72 W
	LmV	B	32.0	H = 08 12 30.3 h = 18 km MB=5.3 MS=5.3
				D = 133.15 Az = 46 (NEIS)
				LmH B 17.5s 0.4/um M = 5.1
				LmV B 18 0.5/um 5.2
23.	eP	A	12 55 08	Northern Sumatra 3.39 N 96.30 E
				H = 12 42 39.8 h = 33 km MB = 5.2
				D = 84.02 Az = 320 (NEIS)
23.	ePP	C	17 06 05	Bismarck Sea 3.51 S 148.65 E
	ePS	C	15 42	H = 16 45 43.6 h = 37 km
	eSS	C	22 45	MB = 5.3 MS = 5.9 (NEIS)
	LmH	B	56.5	D = 120.7
	LmV	B	57.0	LmH B 19s 3.1/um M = 6.0
				LmV B 22 4.8/um 6.1

Day	Phase		h m s	Remarks
23.	eSg	A	18 28 17	Poland 50.36 N 18.88 E
				H = 18 25 43.7 M = 3.2 (WAR)
				D = 4.65
23.	LmH	B	20 59.6	Greece 37.99 N 21.53 E
	LmV	B	21 01.0	H = 20 51 02.9 h = 33 km MB = 4.4
				D = 14.49 Az = 334 (NEIS)
23.	eP	A	22 29 52	Kurile Islands 45.27 N 150.14 E
	LmH	B	23 07.0	H = 22 17 56.5 h = 33 km MB=5.1 MS=4.7
	LmV	B	07.0	D = 77.92 Az = 334 (NEIS)
				LmH B 20s 0.4/um M = 4.7
				LmV B 20 0.4/um 4.8
24.	ePKIKP	A	06 31 26.5	South Sandwich Islands Region
	LmH	C	07 10.5	58.96 S 25.48 W
	LmV	C	11.5	H = 06 12 51.2 h = 31.2 km MB=5.6 MS=5.5
				D = 113.35 Az = 25 (NEIS)
				LmH C 26s 0.6/um M = 5.0
				LmV C 26 0.6/um 5.1
24.	eP	A	10 56 15.5	South of Panama 4.85 N 82.56 W
	eSKS	B	06 54	H = 10 43 22.0 h = 33 km MB=5.4 MS=5.3
	eSS	B	13 12	D = 88.94 Az = 39 (NEIS)
	LmV	B	11 28.8	LmH B 23s 1.1/um M = 5.2
	LmH	B	29.0	LmV B 24 1.4/um 5.3
25.	eSg	A	09 32 35	Austria 46.4 N 13.2 E
				H = 09 30 12 h = 0 km (ISC)
				D = 4.4
25.	LmH	B	15 07.7	Kalimantan (Borneo) 5.03 N 118.44 E
	LmV	B	10.8	H = 14 03 18.7 h = 33 km MB = 5.2 (ISC)
				D = 96.8
				LmH B 16s 0.4/um M = 5.0
				LmV B 16 0.4/um 5.0

Day	Phase		h m s	Remarks
26.	eP	AB	03 10 08	Borneo 4.96 N 118.31 E
	ePP	B	14 02	H = 02 56 39.3 h = 33 km MB=5.8 MS=6.2
	e	A	14 09	D = 96.66 Az = 322 (NEIS)
	eSKS	B	20 44	PV B 8s 0.7/um M = 6.1
	eS	B	21 28	LmH B 16.5 6.7/um 6.2
	eSS	B	28 08	LmV B 16 6.4/um 6.2
	LmH	B	58.8	
	LmV	B	04 04.2	
26.	ePKIKP	A	05 48 49	West Irian 4.52 S 139.93 E
	LmH	B	06 39.3	H = 05 30 03.2 h = 33 km MB=5.2 MS=5.2
	LmV	B	42.1	D = 116.99 Az = 326 (NEIS)
				LmH B 17s 0.5/um M = 5.2
				LmV B 18 0.5/um 5.1
26.	LmH	B	09 55.5	Kalimantan (Borneo) 4.89 N 118.36 E
	LmV	B	55.7	H = 08 49 37.4 h = 57 km MB = 5.2 (ISC)
				D = 96.6
				LmH B 15.5s 0.4/um
				LmV B 17 0.4/um
26.	eP	A	11 01 12	Ryukyu Islands 26.98 N 127.14 E
				H = 10 48 47.7 h = 74.3 km MB = 4.8
				D = 84.08 Az = 325 (NEIS)
				traces
26.	eP	A	11 51 52	Eastern Caucasus 43.15 N 45.22 E
	LmH	B	12 02.6	H = 11 46 38.7 h = 33 km MB = 4.5
	LmV	B	03.5	D = 24.0 Az = 300 (NEIS)
				PV A 1.6s 22.0nm M = 4.4
				LmH B 12 0.3/um 4.1
				LmV B 14 0.3/um 4.1
27.	eP	AB	01 01 40	Norwegian Sea 72.18 N 0.95 E
	eS	B	05 44	H = 00 56 46.9 h = 33.1 km MB=5.1 MS=4.9
	LmV	B	10.6	D = 22.13 Az = 162 (NEIS)
				PV A 1.9s 197.0nm M = 5.2
				PH A 2.0 191.8nm 5.3
				SH B 11 2.1/um 5.3

Day	Phase		h m s	Remarks
cont. 27.	LmH	B	01 11.8	LmH B 14s 1.8/um M = 4.6
				LmV B 19.5 3.4/um 4.9
27.	eP	AB	04 05 34	Iceland 64.61 N 17.23 W
	iS	B	09 28	H = 04 00 56.6 h = 33 km MB=5.2 MS=4.9
	LmV	B	14.5	D = 20.57 Az = 119 (NEIS)
	LmH	B	14.6	PV A 1.8s 277.0nm M = 5.3
				PH A 2.0 297.8nm 5.4
				PV B 10 3.2/um 5.6
				SH B 7.5 5.8/um 5.7
				LmH B 17 4.4/um 4.9
				LmV B 18 4.2/um 5.0
27.	eSg	A	04 54 56	Austria 46.1 N 13.0 E
				H = 04 52 32 h = 0 km (ISC)
				D = 4.65
27.	ePn	A	08 20 58	Austria 46.27 N 13.13 E
	iPg	A	21 19	H = 08 19 48.3 h = 0 km
	eSn	A	21 48	D = 4.50 Az = 348 (ISC)
	iSg	A	22 11.5	PnV A 0.8s 15.4nm
				PgV A 0.7 28.7nm
				SnV A 0.9 35.0nm
				SgV A 1.2 122.0nm
27.	eP	A	09 21 53	Nicobar Islands Region 8.25 N 94.07 E
	LmV	B	10 03.0	H = 09 09 52.0 h = 33 km MB=5.3 MS=4.9
	LmH	B	03.2	D = 78.89 Az = 320 (NEIS)
				PV A 1.5s 35.2nm M = 5.1
				LmH B 17 0.4/um 4.9
				LmV B 17 0.7/um 5.1
27.	eP	A	10 34 15	Nicobar Islands Region 8.21 N 94.37 E
				H = 10 22 10.9 h = 33 km MB = 4.9
				D = 79.12 Az = 320 (NEIS)
				PV A 1.6s 13.7nm M = 4.7

Day	Phase		h m s	Remarks
27.	ePKHKP	A	11 39 31	Fiji Islands Region 20.88 S 178.84 W
				H = 11 20 52.7 h = 633.9 km MB = 4.8
				D = 149.17 Az = 347 (NEIS)
27.	ePKP	A	17 11 41	New Hebrides Islands 19.15 S 169.55 E
				H = 16 52 39.2 h = 279.6 km MB = 5.2
				D = 144.03 Az = 336 (NEIS)
				PKPV A 1.2s 28.5nm
27.	eP1	AB	19 54 02	Northeastern China 39.57 N 117.98 E
	Pm	A	54 16	H = 19 42 54.6 h = 22.8 km MB=6.3 MS=7.9
	eP2	B	54 20	D = 69.47 Az = 319 (NEIS)
	ePPP	B	58 40	PmV A 1.8s 810.0nm M = 6.5
	iS	B	20 03 20	PV B 13 20.3/um 7.2
	eSS	B	07 44	SH B 15 44.9/um 7.4
	LmH	B	22.0	LmH, LmV off scale
	LmV	B	(25.0)	
27.	eP	A	20 42 18	Southern Nevada 37.08 N 116.04 W
				H = 20 30 00.1 h = 0 km MB = 5.3
				D = 81.27 Az = 31 (NEIS)
				PV A 1.2s 32.5nm M = 5.3
				Underground explosion
				Nuclear explosion BILLET (ERDA)
27.	eP	A	21 15 39	Northeastern China 39.24 N 117.55 E
				H = 21 04 33.5 h = 33 km MB = 4.9
				D = 69.50 Az = 319 (NEIS)
27.	eP	A	21 22 15	Northeastern China 39.33 N 117.81 E
				H = 21 11 06.9 h = 33 km MB = 4.9
				D = 69.57 Az = 319 (NEIS)
27.	eP	A	23 28 38	Northeastern China 39.36 N 117.82 E
				H = 23 17 31.4 h = 31.4 km MB = 5.4
				D = 69.55 Az = 319 (NEIS)
				PV A 1.4s 28.0nm M = 5.1

Day	Phase		h m s	Remarks
28.	eP	A	01 09 53.5	Northeastern China 39.41 N 117.78 E
				H = 00 58 46.9 h = 33 km MB = 5.0
				D = 69.50 Az = 319 (NEIS)
				PV A 1.6s 19.2nm M = 4.9
28.	eP	A	01 56 48.5	Northeastern China 39.10 N 117.98 E
	LmH	B	02 24.6	H = 01 45 38.5 h = 33 km MB = 5.1
	LmV	B	30.7	D = 69.83 Az = 319 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
				LmH B 20 7.0/um 5.9
				LmV B 16 3.2/um 5.7
28.	LmH	B	07 53.7	Northeastern China 39.61 N 118.7 E
				H = 06 59 59 h = 126 km MB = 4.7 (ISC)
				D = 69.8
				LmH B 19s 0.9/um
28.	eP	A	09 53 28.5	Northeastern China 39.81 N 117.83 E
				H = 09 42 23.9 h = 33 km MB = 4.9
				D = 69.21 Az = 319 (NEIS)
				PV A 1.7s 18.2nm M = 4.9
28.	eP	A	09 59 33	Northeastern China 39.41 N 118.05 E
				H = 09 48 22.4 h = 33 km MB = 5.1 MS=4.8
				D = 69.64 Az = 319 (NEIS)
				PV A 2.0s 42.7nm M = 5.2
28.	eiP	AB	10 56 43.5	Northeastern China 39.66 N 118.40 E
	Pm	A	56 51	H = 10 45 35.2 h = 26.4 km MB=6.3 MS=7.4
	Pm	B	56 55	D = 69.62 Az = 319 (NEIS)
	ePP	B	59 20	Pm A 1.6s 645.0nm M = 6.5
	ePPP	B	11 01 08	Pm B 11 16.5/um 7.1
	eS	B	05 50	LmH B 19 1977.0/um 8.4
	eSS	B	10 34	LmV B 18 313.0/um 7.6
	eSSS	B	13 44	
	LmH	B	24.8	
	LmV	B	24.8	

Day	Phase		h m s	Remarks
28.	eP	A	15 47 06	Northeastern China 39.85 N 118.66 E
	LmH	B	16 14.8	H = 15 35 55.3 h = 13 km MB = 5.3
	LmV	B	21.2	D = 69.60 Az = 320 (NEIS)
				PV A 1.7s 24.2nm M = 5.1
				LmH B 19.5 17.6/um 6.3
				LmV B 14 5.7/um 6.0
28.	ePKP2	A	17 07 38	Kermadec Islands 30.02 S 177.46 W
				H = 16 47 11.3 h = 37 km MB = 5.1 (NEIS)
				D = 158.1
28.	-iPKP	AB	17 34 40.8	New Hebrides Islands 20.20 S 170.00 E
	LmV	B	18 43.9	H = 17 15 01.7 h = 5.3 km MB=5.6 MS=6.0
	LmH	B	44.0	D = 145.15 Az = 336 (NEIS)
				PKPV A 2.6s 745.2nm
				LmH B 20 3.5/um M = 6.1
				LmV B 21 3.5/um 6.1
28.	ePKIKP	A	17 40 38.5	New Hebrides Islands 20.27 S 170.01 E
	ei	A	40 44	H = 17 21 05.2 h = 38.7 km MB = 5.7
	ePP	A	44 03.5	D = 145.21 Az = 336 (NEIS)
	LmH	B	18 27.7	PKIKPV B 6s 3.5/um
	LmV	B	36.0	LmH B 21 1.6/um M = 5.7
				LmV B 26 4.3/um 6.1
28.	ePKIKP	A	18 28 03	New Hebrides Islands 20.16 S 169.90 E
				H = 18 08 28.8 h = 33.7 km MB = 4.9
				D = 145.07 Az = 336 (NEIS)
28.	eP	A	18 32 29	Kirgiz SSR 39.30 N 72.79 E
				H = 18 24 28.3 h = 50.2 km MB=5.1 MS=6.1
				D = 43.56 Az = 306 (NEIS)
				PV A 1.4s 18.6nm M = 4.6
28.	e(PKP)	A	18 43 26	New Hebrides Islands 20.34 S 170.13 E
				H = 18 23 44.2 h = 33 km MB = 4.2
				D = 145.32 Az = 336 (NEIS)
				PKPV A 1.6s 22.0nm

Day	Phase		h m s	Remarks
28.	eP	A	19 00 45	Northeastern China 39.61 N 117.88 E
				H = 18 49 30.9 h = 33 km MB = 4.6
				D = 69.39 Az = 319 (NEIS)
28.	ePKP	A	19 16 02	New Hebrides Islands 20.21 S 169.81 E
				H = 18 56 29.7 h = 57.7 km MB = 4.9
				D = 145.08 Az = 336 (NEIS)
				PKPV A 1.8s 54.0nm
28.	ePKP	A	20 13 04	New Hebrides Islands 20.24 S 169.90 E
				H = 19 53 29.2 h = 35.6 km MB = 5.0
				D = 145.14 Az = 336 (NEIS)
				PKIKPV A 1.4s 23.2nm
28.	eP1	AB	20 22 59	Eastern Caucasus 43.17 N 45.60 E
	eiP2	AB	23 06	H = 20 17 42.3 h = 21 km MB=5.4 MS=6.1
	iS	B	27 20	D = 24.23 Az = 300 (NEIS)
	LmH	B	33.3	P1V A traces
	LmV	B	35.7	P2V A 2.3s 803.9nm M = 5.9
				P2V B 7 5.7/um 6.3
				SH B 14 36.1/um 6.6
				LmH B 14.5 101.0/um 6.4
				LmV B 12 89.0/um 6.6
28.	eP	A	21 10 07	Eastern Caucasus 43.10 N 45.50 E
	e	A	10 27	H = 21 04 50.7 h = 30.2 km MB = 4.5
				D = 24.20 Az = 300 (NEIS)
				PV A traces
28.	eP	A	23 06 46	Eastern Caucasus 43.12 N 45.48 E
				H = 23 01 32.4 h = 46.8 km MB = 4.6
				D = 24.18 Az = 300 (NEIS)
29.	eP	A	01 12 10	Northeastern China 39.92 N 118.88 E
	LmH	B	40.0	H = 01 01 03.2 h = 35.4 km MB=5.1 MS=4.1
	LmV	B	44.0	D = 69.66 Az = 320 (NEIS)
				PV A 1.8s 40.6nm M = 5.2
				LmH B 18.5 2.8/um 5.6
				LmV B 12 0.6/um 5.1

Day	Phase		h m s	Remarks
29.	LmH	C	03 28.2	Easter Islands Region 22.8 S 114.3 W
	LmV	C	29.6	H = 02 14 55.8 h = 33 km MB=4.9 (ISC)
				D = 129.9
				LmH C 20s 0.3/um M = 4.9
				LmV C 20 0.2/um 4.8
29.	+eP	AB	05 05 14	Western Kazakh SSR 47.78 N 48.12 E
	LmH	B	16.1	H = 04 59 57.7 h = 0 km MB=5.9 MS=4.4
	LmV	B	16.3	Underground nuclear explosion
				D = 23.86 Az = 291 (NEIS)
				PV A 1.0s 259.8nm M = 5.7
				PV B 2.5 0.6/um 5.7
				LmH B 11 0.7/um 4.4
				LmV B 14 0.45/um 4.2
29.	eP	A	07 07 06	Panama 7.00 N 78.13 W
	e	A	07 12.5	H = 06 54 33.5 h = 28 km MB=5.2 MS=5.1
	LmV	C	39.6	D = 84.48 Az = 40 (NEIS)
	LmH	C	39.7	LmH C 23s 0.8/um M = 5.0
				LmV C 24 0.9/um 5.1
29.	ePKP	A	08 01 08.5	New Hebrides Islands 20.02 S 169.84 E
				H = 07 41 33.3 h = 26.7 km MB = 5.0
				D = 144.92 Az = 336 (NEIS)
29.	eP	A	11 16 56	Northeastern China 39.24 N 117.45 E
				H = 11 05 48.7 h = 33 km MB = 4.8
				D = 69.46 Az = 319 (NEIS)
				traces
29.	eP	A	11 21 05	Northeastern China 39.94 N 118.58 E
	LmH	C	48.7	H = 11 09 58.0 h = 33 km MB = 4.8
	LmV	C	50.3	D = 69.49 Az = 319 (NEIS)
				PV A 1.3s 13.1nm M = 4.8
				LmH C 20 0.9/um 5.0
				LmV C 20 0.4/um 4.7
29.	LmV	C	14 44.9	LmH C 14s 0.35/um
	LmH	C	45.3	LmV C 15 0.35/um

Day	Phase		h m s	Remarks
29.	eP	A	16 49 50	Mediterranean Sea 34.3 N 17.7 E
				H = 16 45 53 h = 33 km
				D = 16.91 Az = 347 (ISC)
29.	LmV	C	19 11.4	LmH C 19s 0.5/um
	LmH	C	13.3	LmV C 17 0.4/um
29.	eP	A	21 56 43	Mid-Indian Rise 9.35 S 67.07 E
	LmH	C	22 28.0	H = 21 44 49.6 h = 33 km MB=5.1 MS=5.0
	LmV	C	28.0	D = 76.60 Az = 327 (NEIS)
				LmH C 24s 0.35/um M = 4.6
				LmV C 22 0.35/um 4.7
30.	eP	A	03 27 26	South of Honshu, Japan 32.42 N 137.82 E
				H = 03 15 31.4 h = 366.8 km MB = 4.9
				D = 84.65 Az = 329 (NEIS)
				PV A 1.8s 27.0nm M = 4.8
30.	ePKP	A	04 42 23	New Hebrides Region 20.1 S 171.1 E
				H = 04 22 39 h = 40 km
				D = 145.46 Az = 337 (ISC)
				PKPV A 1.2s 16.3nm
30.	eP	A	07 28 25	Turkey 36.77 N 35.89 E
				H = 07 23 24.9 h = 41.2 km MB = 4.2
				D = 22.24 Az = 316 (NEIS)
				traces
30.	iPn	A	07 33 52.0	Austria 46.27 N 13.02 E
	iPg	A	34 10.5	H = 07 32 43.7 h = 10 km
	iSn	A	34 42.0	D = 4.47 Az = 348 (NEIS)
	eSg	A	35 06	PnV A 0.3s 21.8nm
				PgV A 0.6 24.9nm
				SnV A 0.5 146.2nm
				SgV A 0.7 162.8nm
30.	LmH	B	10 02.0	LmH B 18s 0.9/um
	LmV	B	02.9	LmV B 24 0.6/um

Day	Phase	h m s	Remarks
30.	ePKP A	13 15 49	New Hebrides Islands 20.21 S 170.10 E
			H = 12 56 13.6 h = 33 km MB = 4.6
			D = 145.20 Az = 336 (NEIS)
			PKPV A 1.9s 30.3nm
30.	eP A	20 17 57	Northeastern China 39.73 N 118.66 E
	LmH B	45.6	H = 20 06 45.0 h = 7.6 km MB = 5.1
	LmV B	52.1	D = 69.70 Az = 320 (NEIS)
			PV A 1.1s 12.1nm M = 5.0
			LmH B 20 1.0/um 5.1
			LmV B 12 0.5/um 5.0
30.	ePKIKP A	21 13 35	New Britain Region 4.53 S 152.88 E
			H = 20 54 43.4 h = 75.8 km MB = 5.3
			D = 123.75 Az = 331 (NEIS)
30.	eP A	21 34 21.5	Northeastern China 39.82 N 118.33 E
	LmH B	22 02.0	H = 21 23 15.0 h = 33 km MB=5.4 MS=4.4
	LmV B	08.4	D = 69.46 Az = 319 (NEIS)
			PV A 1.4s 34.9nm M = 5.2
			LmH B 19.5 1.7/um 5.3
			LmV B 14 2.0/um 5.6
31.	ePKIKP AB	01 06 54.5	Kermadec Islands 30.32 S 177.96 W
	eiPKP2 AB	07 27	H = 00 46 58.0 h = 19.5 km MB=5.8 MS=6.2
	ePP B	11 08	D = 158.47 Az = 343 (NEIS)
	eSKSP B	21 24	PKIKPV A 2.1s 392.7nm
	ePPS B	24 25	PKIKPV B 16 2.2/um
	LmH B	02 13.6	PKP2V A 1.5 351.8nm
	LmV B	19.4	PPV B 16 1.8/um M = 6.0
			LmH B 24 6.2/um 6.3
			LmV B 23 5.9/um 6.3
1.	ePKP2 A	01 52 54	Kermadec Islands 30.34 S 177.81 W
			H = 01 32 24.0 h = 24.1 km MB = 4.6 (NEIS)
			D = 158.0
31.	ePKP A	01 55 05	Fiji Islands Region 17.68 S 178.64 W
			H = 01 36 26.7 h = 556.5 km MB = 5.1
			D = 146.10 Az = 348 (NEIS)

Day	Phase	h m s	Remarks
31.	LmH B	08 09.0	Northeastern China 39.53 N 118.53 E
	LmV B	09.0	H = 07 23 39.4 h = 38.5 km MB = 4.8
			D = 69.78 Az = 320 (NEIS)
			LmH B 12s 0.3/um M = 4.7
			LmV B 14 0.3/um 4.7
31.	ePKHKP A	11 44 06	South of Fiji Islands 24.07 S 179.57 E
	ePKP2 A	44 17.5	H = 11 25 09.1 h = 549.7 km MB = 4.9
			D = 151.87 Az = 344 (NEIS)
31.	ePn A	14 48 03	Austria 46.28 N 13.29 E
	ePg A	48 23	H = 14 46 55.9 h = 33 km MB = 4.9
	eiSn A	48 54.2	D = 4.51 Az = 346 (NEIS)
	eiSg A	49 19	PnV A 0.7s 19.2nm
			PgV A 0.8 23.1nm
			SnV A 0.6 46.0nm
			SgV A 1.2 113.8nm
31.	LmH B	23 23.0	Gulf of California 26.51 N 110.19 W
	LmV B	23.0	H = 22 32 14.2 h = 46 km MB = 4.8 (ISC)
			D = 87.6
			LmH B 17.5s 0.7/um M = 5.1
			LmV B 16 0.6/um 5.2

Day	Phase		h m s	Remarks
1.	eP	A	02 15 15	Northern Sumatra 3.23 N 96.49 E
				H = 02 02 50.1 h = 80.5 km MB = 5.0
				D = 84.27 Az = 320 (NEIS)
1.	+eP	A	04 51 02.5	Near East Coast of Kamchatka
				53.91 N 160.51 E
				H = 04 39 44.1 h = 92.9 km MB = 4.9
				D = 72.60 Az = 340 (NEIS)
				PV A 1.6s 33.0nm M = 4.9
1.	ePn	A	14 45 14	Austria 46.0 N 12.9 E
	eSg	A	46 27	H = 14 44 02 h = 0 km
				D = 4.76 Az = 350 (ISC)
1.	ePKP	AB	18 26 39	Tonga Islands 18.44 S 174.11 W
	LmH	C	19 32.0	H = 18 06 57.3 h = 33 km MB=5.3 MS=5.0
	LmV	C	32.0	D = 147.54 Az = 353 (NEIS)
				PKPV A 2.5s 138.0nm
				PKPV B 7 0.6nm
1.	LmH	C	21 32.6	Northeastern China 39.59 N 117.94 E
	LmV	C	38.5	H = 20 53 54.1 h = 33 km MB = 4.7 (ISC)
				D = 69.4
				LmH C 20s 0.5/um M = 4.7
				LmV C 15 0.45/um 4.9
2.	LmH	C	01 01.2	LmH C 20s 0.25/um
	LmV	C	01.2	LmV C 18 0.3/um
2.	eP	A	05 19 42	Crete 35.55 N 25.98 E
				H = 05 15 35.0 h = 124.9 km MB = 4.7
				D = 18.33 Az = 330 (NEIS)
				PV A 1.7s 30.3nm M = 4.3

Day	Phase		h m s	Remarks
2.	+iPKP	AB	11 14 58.2	New Hebrides Islands 20.61 S 169.27 E
	eiPP	B	18 20	H = 10 55 25.7 h = 51.5 km MB=6.1 MS=6.9
	ePKKS	B	26 38	D = 145.23 Az = 335 (NEIS)
	eSKSP	B	28 30	PKPV A 1.2s 1930.9nm
	ePPS	B	31 00	PKPV B 18 22.6/um
	LmH	B	12 22.8	PPV B 18 8.0/um M = 6.6
	LmV	B	23.2	LmH B 20 19.3/um 6.8
				LmV B 20 23.4/um 6.9
2.	ePKP	A	11 57 23	New Hebrides Islands 20.69 S 169.30 E
	e	A	57 34	H = 11 37 50.4 h = 50.7 km MB = 5.0
				D = 145.32 Az = 335 (NEIS)
2.	eP	A	16 27 57	Near East Coast of Kamchatka
				53.00 N 160.77 E
				H = 16 16 25.9 h = 33 km MB = 5.0 (NEIS)
				D = 73.4
3.	eP1	AB	07 58 40.5	Kirgiz-Sinkiang Border Region
	eP2	A	58 45.5	40.80 N 77.88 E
	eS	B	08 05 26	H = 07 50 19.8 h = 33 km MB=5.2 MS=5.2
	eSS	B	08 48	D = 45.85 Az = 306 (NEIS)
	Lg2	B	15 00	P1V A 1.3s 21.8nm M = 4.9
	LmH	B	21.6	P2V A 2.0 94.0nm 5.4
	LmV	B	21.6	Lg2H B 6 2.6/um
				LmH B 15 3.0/um 5.4
				LmV B 15 3.9/um 5.6
3.	LmH	B	10 37.8	Andaman Islands Region 14.88 N 95.42 E
	LmV	B	37.8	H = 09 44 34.6 h = 42.4 km MB = 4.3
				D = 74.74 Az = 319 (NEIS)
				LmH B 15s 0.2/um M = 4.6
				LmV B 15 0.35/um 4.8
3.	LmH	C	18 43.5	Tristan da Cunha Region 39.73 S 15.83 W
	LmV	C	44.5	H = 17 53 11.4 h = 33 km MB = 4.9
				D = 93.0
				LmV C 20s 0.2/um M = 4.7

Day	Phase		h m s	Remarks
3.	eP	A	23 50 00.5	Honshu, Japan 36.20 N 139.77 E
				H = 23 37 44.8 h = 67 km MB = 4.8
				D = 82.23 Az = 330 (NEIS)
				traces
4.	iPg	A	00 23 59.8	D c. 4.1
	iSg	A	24 05.5	
4.	eP	A	14 12 54	Tristan da Cunha Region 35.65 S 14.04 W
	ePP	A	16 21	H = 14 00 01.8 h = 33 km MB=5.8 MS=5.4
				D = 88.85 Az = 16 (NEIS)
				PV A 2.2s 76.3nm M = 5.6
				PPV A 1.8 60.8nm 5.7
4.	ePKP	A	20 25 02	Loyalty Islands 20.37 S 168.70 E
				H = 20 05 24.8 h = 20.1 km MB = 4.5
				D = 144.79 Az = 335 (NEIS)
				PKPV A 1.5s 15.1nm
4.	eiP	A	23 33 42	South of Honshu, Japan 30.16 N 138.47 E
	epP	A	35 27.5	H = 23 21 44.2 h = 434.8 km MB = 5.4
	ePP	A	37 11	D = 86.86 Az = 329 (NEIS)
	eSKS	C	43 38	h = 475 km
	eSP	A	44 40.5	PV A 1.5s 45.2nm M = 5.0
	esS	C	46 35	PPV A 1.6 33.0nm 5.2
	eSS	C	49 30	LmH B 13 0.2/um
	LmV	B	24 21.0	LmV B 14 0.3/um
	LmH	B	19.0	
5.	eP	A	03 42 56	Kurile Islands 46.87 N 153.71 E
	LmH	B	04 23.0	H = 03 30 59.1 h = 8.5 km MB=5.2 MS=4.7
	LmV	B	26.1	D = 77.50 Az = 336 (NEIS)
				PV A 1.3s 21.8nm M = 5.1
5.	eP	A	07 00(23)	South of Honshu, Japan 32.46 N 141.26 E
	epP	A	00 35	H = 06 47 44.8 h = 35.1 km MB = 4.9
				D = 86.07 Az = 331 (NEIS)
				h = 43 km
				PV A traces
				pPV A 1.3s 17.5nm

Day	Phase		h m s	Remarks
5.	eP	A	09 25 45	Kurile Islands 46.65 N 153.81 E
	LmH	B	58.8	H = 09 13 50.3 h = 33 km MB=4.9 MS=4.7
	LmV	B	10 02.6	D = 77.74 Az = 336 (NEIS)
				PV A 1.4s 37.2nm M = 5.2
				LmH B 18 0.4/um 4.8
				LmV B 17 0.45/um 4.9
5.	+eP	AB	13 49 15.5	Nicobar Islands Region 6.98 N 94.31 E
	eS	B	59 05	H = 13 37 16.7 h = 106 km MB = 5.6
	LmH	B	14 26.0	D = 80.01 Az = 320 (NEIS)
				PV A 1.5s 75.4nm M = 5.3
5.	LmH	B	16 10.4	LmH B 19s 0.7/um
	LmV	B	15.4	LmV B 12 0.2/um
5.	LmV	B	18 09.0	South of Fiji 26.92 S 176.05 W
				H = 16 28 56.4 h = 33 km (ISC)
				D = 155.4
				LmV B 18s 0.25/um M = 5.1
5.	eP	A	19 00 47	Off Coast of Central America
	LmH	B	34.7	12.75 N 88.20 W
	LmV	B	34.7	H = 18 48 11.4 h = 69.6 km MB = 5.2
				D = 86.38 Az = 39 (NEIS)
				LmH B 20s 0.35/um
				LmV B 20 0.35/um
5.	ePKP	A	23 22 17	New Hebrides 19.95 S 168.39 E
				H = 23 02 43.3 h = 33 km
				D = 144.28 Az = 335 (ISC)
6.	ePKP2	A	03 43 02	Kermadec Islands Region
	LmH	C	04 54.5	29.39 S 176.74 W
	LmV	C	54.5	H = 03 22 33.6 h = 25.5 km MB = 4.8 (NEIS)
				D = 157.8
				PKP2V A 1.5s 20.1nm
				LmH C 20 0.3/um M = 5.0
				LmV C 20 0.25/um 5.1

Day	Phase		h m s	Remarks
6.	eP	A	07 29 16	Kurile Islands 46.62 N 153.76 E
				H = 07 17 20.9 h = 33 km MB = 4.9
				D = 77.75 Az = 336 (NEIS)
6.	eP	AB	07 39 11	Kurile Islands 46.77 N 153.77 E
	e	A	39 22	H = 07 27 15.2 h = 19.2 km MB = 5.2
	LmH	B	08 19.4	D = 77.62 Az = 336 (NEIS)
	LmV	B	22.4	PV A 1.7s 42.4nm M = 5.2
				LmH B 15 0.5/um 5.0
				LmV B 16 0.4/um 4.9
6.	eP	A	19 54 52.5	Near East Coast of Honshu, Japan
	epP	A	55 05	37.35 N 141.49 E
	LmH	B	20 34.4	H = 19 42 37.2 h = 53.9 km MB = 5.3
	LmV	B	34.4	D = 81.92 Az = 330 (NEIS)
				h = 47 km
				PV A 1.4s 37.2nm M = 5.2
				LmH B 16 0.4/um 4.9
				LmV B 16 0.4/um 4.9
6.	eP	A	20 40 31	Ethiopia 13.20 N 39.76 E
				H = 20 32 26.5 h = 33 km MB = 4.7
				D = 43.80 Az = 334 (NEIS)
6.	LmH	B	22 32.2	Ryukyu Islands 26.98 N 130.48 E
	LmV	B	39.2	H = 21 42 58.7 h = 33 km MB = 5.0
				D = 85.77 Az = 326 (NEIS)
				LmH B 18s 0.3/um M = 4.7
				LmV B 14 0.2/um 4.7
7.	eP	A	06 29 16.5	Kurile Islands Region 46.61 N 154.11 E
				H = 06 17 20.3 h = 40.3 km MB = 4.5
				D = 77.86 Az = 337 (NEIS)
7.	LmH	B	08 07.6	LmH B 20s 0.35/um
	LmV	B	10.6	LmV B 18 0.3/um

Day	Phase		h m s	Remarks
7.	eiPKP	AB	09 56 46	New Hebrides Islands 20.69 S 169.21 E
	LmH	B	11 10.0	H = 09 37 11.8 h = 43.8 km MB=5.1 MS=4.7
	LmV	B	10.7	D = 145.28 Az = 335 (NEIS)
				PKPV A 1.6s 93.4nm
8.	LmH	B	03 32.7	North Atlantic Ridge 33.78 N 38.32 W
	LmV	B	32.7	H = 03 10 50.1 h = 33 km MB=4.8 MS=4.5
				D = 39.82 Az = 50 (NEIS)
				LmH B 18s 0.4/um M = 4.3
				LmV B 16 0.5/um 4.6
8.	LmH	B	11 48.0	Northeastern China 39.71 N 118.51 E
	LmV	B	54.4	H = 11 09 12.4 h = 33 km MB = 4.9
				D = 69.63 Az = 319 (NEIS)
				LmH B 19.5s 1.7/um M = 5.3
				LmV B 11 0.5/um 5.1
8.	e	A	22 53 26	Northeastern China 40.18 N 118.86 E
	LmH	B	23 20.6	H = 22 41 34.3 h = 33 km MB = 5.1
	LmV	B	24.6	D = 69.46 Az = 320 (NEIS)
				LmH B 18.5s 11.1/um M = 6.1
				LmV B 13 2.1/um 5.6
9.	eP	A	00 32 57	Kurile Islands 46.86 N 153.47 E
				H = 00 21 00.8 h = 33 km MB = 4.6 (NEIS)
				D = 77.2
9.	ePKIKP	A	05 52 20	Tonga Islands 20.84 S 175.05 W
	iPKHKP	A	52 25	H = 05 32 37.1 h = 33 km MB = 5.6
				D = 149.80 Az = 352 (NEIS)
				PKHKPV A 1.3s 87.4nm
10.	eP	AB	00 23 19	South of Panama 2.14 N 79.02 W
	ePP	C	26 46	H = 00 10 26.9 h = 33 km MB=5.5 MS=5.6
	eSKS	B	33 50	D = 88.77 Az = 40 (NEIS)
	eS	B	34 06	PV A 1.5s 40.2nm M = 5.5
	ePS	B	35 20	LmH B 17 0.9/um 5.3
	eSS	C	39 53	LmV B 17 1.8/um 5.6
	LmH	B	01 11.3	
	LmV	B	12.5	

Day	Phase		h m s	Remarks
10.	e(PKP2)	A	00 42 53	Off West Coast of South Island, N. Z. 47.25 S 165.57 E H = 00 21 55.2 h = 33 km D = 162.59 Az = 291 (ISC)
10.	ePn	A	02 20 40	Yugoslavia 45.82 N 15.35 E
	eiSn	A	21 42	H = 02 19 17.5 h = 10.2 km
	eSg	A	22 13	D = 5.44 Az = 334 (NEIS)
11.	ePKP	A	01 38 56	Loyalty Islands 20.47 S 168.85 E H = 01 19 23.7 h = 56.9 km D = 144.94 Az = 335 (NEIS) traces
11.	ePn	A	18 31 36	Austria 46.16 N 13.32 E
	eSn	A	32 27	H = 18 30 27.4 h = 33 km
	eSg	A	32 50	D = 4.63 Az = 346 (NEIS)
11.	ePKP	AB	22 46 11	New Hebrides Islands 20.63 S 169.24 E
	ipPKP	AB	46 22.5	H = 22 26 39.0 h = 60.2 km MB = 5.1 D = 145.24 Az = 335 (NEIS) h = 39 km PKPV A 1.6s 82.4nm pPKPV A 1.3 114.0nm
12.	eP	A	00 44 54	Ascension Island Region 10.43 S 13.11 W
	e	A	45 00	H = 00 34 19.0 h = 33 km MB = 4.8 D = 64.52 Az = 17 (NEIS)
12.	eP	A	00 46 37.5	Ascension Island Region 10.41 S 13.27 W
	LmH	B	01 14.0	H = 00 36 02.0 h = 33 km MB = 4.3 (NEIS)
	LmV	B	16.3	D = 64.5 PV A 2.1s 48.0nm M = 5.3 LmH B 17.5 0.4/um 4.7 LmV B 17 0.6/um 4.9
12.	ePn	A	01 23 25	Austria 46.28 N 13.25 E
	eSn	A	24 12	H = 01 22 15.9 h = 20.4 km
	eSg	A	24 38	D = 4.50 Az = 347 (NEIS)

Day	Phase		h m s	Remarks
12.	ePKP	A	09 59 03	New Hebrides Islands 20.16 S 169.98 E
	e	A	59 09	H = 09 39 27.3 h = 30.2 km MB = 4.9 D = 145.10 Az = 336 (NEIS) PKPV A 1.3s 21.8nm
12.	ePP	A	10 21 26	Solomon Islands 10.95 S 162.49 E
	eSKP	A	22 27	H = 09 59 45.3 h = 42.6 km MB=5.5 MS=5.2
	LmH	B	11 20.2	D = 133.77 Az = 335 (NEIS)
	LmV	B	21.5	PPV A 1.6s 16.5nm M = 4.9 LmH B 20 0.4/um 5.1 LmV B 18 0.5/um 5.2
12.	eP	A	11 54 50	Hokkaido, Japan Region 43.78 N 145.84 E H = 11 42 56.9 h = 51.9 km MB = 5.0 D = 77.87 Az = 332 (NEIS)
12.	eP	A	11 56 32.5	Philippine Islands Region 12.53 N 125.98 E H = 11 43 11.0 h = 33 km MB = 5.2 D = 95.18 Az = 324 (NEIS)
12.	e(PKP)	A	13 06 59	Fiji Islands Region 18.78 S 178.05 W H = 12 47 41.1 h = 186.3 km MB = 4.6 D = 147.29 Az = 349 (NEIS)
12.	eP	AC	21 07 02	Celebes Sea 3.55 N 124.33 E
	epP	A	08 25	H = 20 53 49.1 h = 357.2 km MB = 5.8
	esP	C	08 58	D = 101.41 Az = 323 (NEIS)
	ePP	AC	11 18	h = 347 km
	epPP	C	12 30	PV A 1.4s 74.5nm M = 6.0
	eisPP	C	12 59	PPV A 3.0 1579.0nm 6.5
	ePPP	C	13 25	PPH A 3.0 1103.0nm 6.6
	epPPP	B	14 20	LmH B 17 3.3/um
	ePPPP	C	15 14	LmV B 17 1.8/um
	eiSKS	C	17 00	
	eSP	B	19 32	
	LmH	B	51.2	
	LmV	B	55.9	

Day	Phase		h m s	Remarks
12.	+iP	AB	23 37 39	Burma 26.68 N 97.07 E
	iPcP	AB	38 07	H = 23 26 46.2 h = 27.2 km MB=6.4 MS=6.1
	ePP	B	40 05	D = 67.07 Az = 316 (NEIS)
	ePPP	B	41 48	PV A 2.0s 940.0nm M = 6.5
	eS	B	46 35	PH A 1.8 345.4nm 6.4
	eSKS	B	47 40	PV B 5 2.6/um 6.6
	eSS	C	50 50	PcPV A 1.8 243.2nm
	eSSS	C	54 00	SH B 11 1.6/um 6.1
	LmH	B	24 05.4	P'P'V A 2.4 55.2nm
	eP'P'	A	06 05	LmH B 20 10.1/um 6.0
	LmV	B	13.7	LmV B 12 5.1/um 6.0
13.	ePKP2	A	13 10 24	Kermadec Islands Region 28.27 S 175.76 W
				H = 12 50 01.8 h = 33 km MB = 5.0
				D = 156.96 Az = 348 (NEIS)
14.	ePn	A	05 36 09	Austria 46.24 N 13.3 E
	ePg	A	36 30	H = 05 34 59.5 h = 0 km
	eSn	A	36(58)	D = 4.56 Az = 346 (ISC)
	eSg	A	37 24	
14.	ePn	A	07 32 33	Austria 47.39 N 11.45 E
	ePb	A	32 39.8	H = 07 31 43.6 h = 33 km
	ePg	A	32 48	D = 3.26 Az = 2 (NEIS)
	eSn	A	33 12.5	
	iSg	A	33 28	
14.	LmH	B	16 41.8	Marianas Region 16.71 N 147.46 E
	LmV	B	47.8	H = 15 45 55.7 h = 41 km MB = 5.0 (ISC)
				D = 102.6
				LmH B 17s 0.4/um M = 5.0
				LmV B 14 0.2/um 4.8
14.	eP	A	20 00 48	Kamchatka 56.61 N 155.23 E
	LmH	B	31.1	H = 19 49 40.6 h = 33 km MB=5.1 MS=4.9
	LmV	B	34.5	D = 68.95 Az = 336 (NEIS)
				LmH B 19s 0.8/um M = 5.0
				LmV B 18 0.6/um 4.9

Day	Phase		h m s	Remarks
15.	ePKHKP	A	04 18 42	Tonga Region 18.4 S 172.9 W
				H = 03 58 53.6 h = 0 km
				D = 147.59 Az = 355 (ISC)
				PKHKPV A 1.2s 16.3nm
15.	eP	A	06 50 22	Kurile Islands 46.56 N 152.64 E
				H = 06 38 28.4 h = 33 km MB = 5.1
				D = 77.49 Az = 336 (NEIS)
				PV A 1.0s 23.6nm M = 5.2
15.	LmV	B	11 06.2	LmH B 19s 0.9/um
	LmH	B	07.4	LmV B 12 0.3/um
15.	LmH	B	15 33.0	Near Coast of Peru 16.22 S 73.52 W
				H = 14 55 16.5 h = 74 km MB = 4.9 (ISC)
				D = 99.3
				LmH B 19s 0.35/um
15.	ePKIKP	A	19 02 36.5	South of Fiji Islands 25.13 S 179.70 E
	ePKHKP	A	02 44.5	H = 18 43 45.0 h = 509.4 km MB = 5.4
	ePKP2	A	02 58.5	D = 152.91 Az = 343 (NEIS)
				PKHKPV A 1.2s 32.5nm
				PKP2V A 1.4 55.7nm
15.	e	A	22 49 06	Talaud Islands 3.57 N 126.94 E
	LmV	B	23 41.2	H = 22 34 53.7 h = 38.8 km MB=5.3 MS=5.2
	LmH	B	41.3	D = 102.95 Az = 324 (NEIS)
				LmH B 22s 0.8/um M = 5.2
				LmV B 22 1.0/um 5.3
16.	eP	A	01 39 28.5	North of Ascension Island
				0.76 S 15.97 W
				H = 01 29 49.9 h = 41.5 km MB=4.9 MS=4.3
				D = 56.36 Az = 21 (NEIS)
				PV A 1.0s 15.7nm
16.	eP	A	02 37 19.5	North of Ascension Island
	ePPP	B	40 35	0.78 S 16.05 W
	eS	B	45 16	H = 02 27 38.6 h = 25 km MB=5.2 MS=4.8

Day	Phase		h m s	Remarks
cont. 16.	LmH	B	03 01.2	D = 56.4 Az = 21 (NEIS)
	LmV	B	04.4	PV A 1.0s 23.6nm M = 5.2
				LmH B 15 0.5/um 4.7
				LmV B 14 0.5/um 4.8
16.	LmH	C	10 37.0	LmH C 19s 0.5/um
	LmV	C	43.0	LmV C 18 0.3/um
16.	eP	A	12 40 03.5	Near East Coast of Kamchatka
	LmH	B	13 17.0	51.92 N 158.43 E
	LmV	B	17.4	H = 12 28 32.4 h = 50 km MB=5.3 MS=4.8
				D = 74.01 Az = 339 (NEIS)
				PV A 1.3s 21.8nm M = 4.9
				LmH B 18 0.6/um 4.9
				LmV B 18 0.7/um 5.0
16.	+iP	AB	14 17 39	Szechwan Province, China 32.75 N 104.16 E
	ePP	B	20 10	H = 14 06 45.9 h = 16 km
	ePPP	B	21 48	MB = 6.1 MS = 6.9 (NEIS)
	iS	B	26 34	D = 66.9
	eSS	B	30 44	PV A 3.6s 4860.0nm M = 7.1
	eSSS	B	33 58	PV B 9 10.1/um 7.1
	LmH	B	44.5	SH B 16 9.0/um 6.7
	eP'P'	A	46 12	LmH B 17 139.5/um 7.2
	LmV	B	49.3	LmV B 14 68.0/um 7.1
16.	eP1	AB	16 24 48	Mindanao, Philippine Islands
	eiP2	AB	25 30	6.26 N 124.02 E
	P2mV	A	25 48	H = 16 11 07.3 h = 33 km MB=6.4 MS=7.9
	ePP1	B	28 45	D = 99.07 Az = 323 (NEIS)
	ePP2	B	29 30	P2mV A 2.5s 3686.6nm M = 7.4
	ePS2	B	38 35	P1V B 15 15.5/um 7.3
	ePKKP2	A	41 50	P2V B 10 30.4/um 7.8
	e(P'P'2)	A	50 10	LmH B 19 415.0/um 7.9
	e	A	50 34	LmV B 18 435.0/um 8.0
	LmV	B	17 14.7	
	LmH	B	15.9	

Day	Phase		h m s	Remarks
16.	eP	A	18 29 58	Mindanao, Philippine Islands
				7.04 N 123.69 E
				H = 18 16 21.0 h = 26.2 km MB = 5.6
				D = 98.26 Az = 323 (NEIS)
16.	eP	A	20 55 28	Near East Coast of Kamchatka
	e	A	55 37	54.60 N 162.56 E
				H = 20 44 03.8 h = 33 km MB = 5.0
				D = 72.34 Az = 341 (NEIS)
				PV A 1.5s 20.1nm M = 5.4
16.	eP	A	22 43 19	Mindanao, Philippine Islands
				7.56 N 123.43 E
				H = 22 29 42.0 h = 34 km MB = 5.0
				D = 97.69 Az = 323 (NEIS)
				traces
16.	eP	AB	23 03 12	Mindanao, Philippine Islands
	ePP	B	07 18	7.38 N 123.38 E
	eS	B	14 41	H = 22 49 38.2 h = 33 km MB=5.8 MS=5.4
	ePS	B	16 12	D = 97.80 Az = 323 (NEIS)
	eSS	B	21 40	PV A 1.6s 60.4nm M = 5.9
	LmV	B	52.9	LmH B 18 1.9/um 5.6
	LmH	B	53.4	LmV B 16 1.8/um 5.7
17.	eP	AB	01 24 40	Leyte, Philippine Islands
	epP	A	24 51.5	10.06 N 125.87 E
	esP	A	24 58.5	H = 01 11 10.2 h = 34 km MB=6.0 MS=5.7
	eSKS	B	35 12	D = 97.10 Az = 324 (NEIS)
	eS	B	36 04	h = 45 km
	LmV	B	02 14.1	PV A 1.3s 61.1nm M = 6.0
	LmH	B	15.0	LmH B 20 5.8/um 6.1
				LmV B 18 2.6/um 5.8
17.	eP	AB	04 33 02.5	Mindanao, Philippine Islands
	ePP	B	37 12	7.25 N 122.94 E
	eSKS	B	43 36	H = 04 19 27.3 h = 22 km MB=6.2 MS=6.8
	iS	B	44 36	D = 97.64 Az = 323 (NEIS)
	ePPS	B	46 48	PV A 1.8s 128.4nm M = 6.2

Day	Phase		h m s	Remarks
cont. 17.	eSS	B	04 51 16	PV B 15s 1.7/um M = 6.3
	LmH	B	05 12.8	LmH B 24 113.2/um 7.3
	LmV	B	22.3	LmV B 18 41.7/um 7.0
17.	eP	A	04 54 51	Hokkaido, Japan Region 41.11 N 142.07 E
				H = 04 42 54.0 h = 70.3 km MB = 4.9
				D = 78.87 Az = 330 (NEIS)
17.	e	A	05 32 36	Mindanao, Philippine Islands
	ePP	A	36 30	6.48 N 123.94 E
				H = 05 18 49.3 h = 32.3 km MB = 5.5
				D = 98.85 Az = 323 (NEIS)
17.	eP	A	08 07 12	Mindanao, Philippine Islands
				7.28 N 123.30 E
				H = 07 53 30.5 h = 14 km MB = 5.6
				D = 97.84 Az = 323 (NEIS)
				PV A 1.6s 33.0nm M = 5.7
17.	iPg	A	10 58 14	D c. 1.3
	e	A	58 29	
	iSg	A	58 31	
17.	eP	A	11 02 42	Southern Italy 41.31 N 15.32 E
				H = 11 00 19.5 h = 33 km
				D = 9.69 Az = 346 (NEIS)
17.	eP	A	17 31 27	Near S. Coast of Honshu, Japan
	ePP	A	34 38	34.80 N 138.95 E
				H = 17 19 02.1 h = 27 km MB = 5.1
				D = 83.09 Az = 329 (NEIS)
				PV A 1.8s 27.0nm M = 5.1
17.	+eP	A	17 41 53	Dodecanese Islands 36.88 N 27.05 E
	eS	B	45 08	H = 17 37 56.6 h = 167.5 km MB = 5.1
	LmH	B	18 09.2	D = 17.66 Az = 326 (NEIS)
	LmV	B	13.0	PV A 1.9s 242.4nm M = 5.2
				LmH B 14 1.0/um
				LmV B 14 0.9/um

Day	Phase		h m s	Remarks
17.	LmH	C	19 19.5	Ceram 2.98 S 129.58 E
	LmV	C	22.5	H = 18 07 39.8 h = 33 km MB = 5.4 (ISC)
				D = 109.8
				LmH C 19s 0.5/um M = 5.1
				LmV C 21 0.5/um 5.1
17.	ePKP2	A	22 51 23	Kermadec Islands 30.40 S 177.75 W
	LmH	C	23 57.3	H = 22 30 53.2 h = 32 km MB = 5.6 (NEIS)
	LmV	C	58.7	D = 158.7
				LmH C 20s 0.5/um M = 5.2
				LmV C 18 0.6/um 5.4
18.	eP	A	01 02 07	Dodecanese Islands 36.59 N 26.94 E
				H = 00 58 06.2 h = 154.3 km MB = 4.3
				D = 17.85 Az = 327 (NEIS)
				PV A 1.6s 22.0nm M = 4.2
18.	eP	C	02 05 45	Mindanao, Philippine Islands
	e	A	06 02	6.44 N 123.95 E
	ePP	B	09 45	H = 01 52 06.1 h = 31.4 km MB=5.5 MS=5.6
	eS	C	17 10	D = 98.88 Az = 323 (NEIS)
	ePS	C	18 40	PV B 12s 0.30/um M = 5.7
	LmH	B	57.0	PPV B 12 0.5/um 5.8
	LmV	B	03 00.9	LmH B 17.5 2.1/um 5.7
				LmV B 16 1.9/um 5.7
18.	eP	A	03 37 04	Szechwan Province, China
				32.76 N 104.28 E
				H = 03 26 12.1 h = 33 km MB = 4.9
				D = 67.02 Az = 316 (NEIS)
				PV A 1.7s 15.2nm M = 4.8
18.	iPn	A	05 59 59.0	Austria 46.21 N 13.18 E
	ePg	A	06 00 17.5	H = 05 58 51.2 h = 33 km MB = 4.9
	eSn	A	00 49	D = 4.56 Az = 347 (NEIS)
	e	A	01 10	
	eiSg	A	01 12.5	

Day	Phase	h m s	Remarks
18.	LmH B	10 55.1	Mindanao 6.38 N 123.87 E
	LmV B	55.8	H = 09 47 51.8 h = 0 km MB = 5.1 (ISC)
			D = 98.9
			LmH B 15s 0.4/um M = 5.0
			LmV B 16 0.5/um 5.1
18.	LmV B	11 48.6	Mindanao 6.56 N 123.74 E
	LmH B	48.8	H = 10 48 36 h = 31 km MB = 5.2 (ISC)
			D = 98.7
			LmH B 18s 0.3/um M = 4.9
			LmV B 14.5 0.4/um 5.1
18.	ePKP2 A	13 57 49	Kermadec Islands 30.36 S 177.74 W
			H = 13 37 19 h = 33 km MB = 5.5
			D = 158.55 Az = 344 (ISC)
18.	eP A	17 10 36	Dodecanese Islands 36.78 N 27.42 E
			H = 17 06 35.5 h = 163 km MB = 4.7
			D = 17.91 Az = 326 (NEIS)
			PV A 1.4s 18.6nm M = 4.2
18.	eP AB	20 41 08	Mindanao, Philippine Islands
	ePP B	45 16	6.92 N 123.69 E
	eSKS B	51 40	H = 20 27 31.6 h = 33 km MB=5.7 MS=5.6
	eS B	52 40	D = 98.35 Az = 323 (NEIS)
	ePS B	53 48	PV A 2.2s 65.5nm M = 5.8
	eSS B	59 24	LmH B 17 3.4/um 5.9
	eSSS B	21 03 32	LmV B 18 3.2/um 5.9
	LmV B	28.2	
	LmH B	28.6	
19.	eP A	00 51 42.5	Atlantic-Indian Rise 29.15 S 61.25 E
			H = 00 38 41.3 h = 33 km MB = 5.1
			D = 90.75 Az = 331 (NEIS)
19.	eP AB	01 16 52.5	Turkey 37.70 N 28.89 E
	e B	17 14	H = 01 12 36.7 h = 3.3 km MB=5.0 MS=4.9
	eS B	20 16	D = 17.86 Az = 322 (NEIS)
	e B	51 05	PV A 2.0s 162.0nm M = 4.8

Day	Phase	h m s	Remarks
cont. 19.	LmH B	01 23.1	LmH B 13.5s 6.8/um M = 5.1
	LmV B	26.6	LmV B 12 3.1/um 6.0
19.	ePKP2 A	01 35 26.5	Kermadec Islands 30.51 S 177.54 W
	e A	35 40.5	H = 01 14 58.4 h = 33 km MB = 5.3 (NEIS)
			D = 158.7
19.	ePKP2 A	01 54 25	Kermadec Islands 30.34 S 177.55 W
			H = 01 33 5? h = 39 km
			D = 158.59 Az = 344 (ISC)
19.	eP AB	13 00 38	Szechwan Province, China 32.89 N 104.19 E
	eS B	09 32	H = 12 49 47.7 h = 33 km MB=5.4 MS=5.1
	LmH B	26.9	D = 66.87 Az = 316 (NEIS)
	LmV B	32.7	PV A 1.6s 49.5nm M = 5.4
			LmH B 16 2.8/um 5.6
			LmV B 14 1.8/um 5.5
19.	eP A	17 21 06	Mindanao, Philippine Islands
	LmH B	18 09.5	7.47 N 123.66 E
	LmV B	10.9	H = 17 07 30.9 h = 33 km MB=5.3 MS=5.0
			D = 97.89 Az = 323 (NEIS)
			LmH B 16s 0.25/um M = 4.8
			LmV B 14 0.3/um 4.8
19.	eP A	19 17 17.5	Luzon, Philippine Islands
	e A	17 28	14.50 N 123.77 E
	eS C	28 28	H = 19 04 04.6 h = 15.2 km MB=5.5 MS=5.0
	eSS C	34 40	D = 92.33 Az = 324 (NEIS)
	LmH B	59.0	LmH B 21 s 1.6/um M = 5.4
	LmV B	20 00.8	LmV B 22 1.1/um 5.3
19.	eP A	22 39 47	Greece 39.23 N 22.27 E
	LmH B	45.5	H = 22 36 26.6 h = 57.8 km MB = 4.3
	LmV B	45.5	D = 13.66 Az = 330 (NEIS)
			LmH B 12s 0.5/um M = 3.8
			LmV B 12 0.55/um

Day	Phase		h m s	Remarks
19.	ePKP	AB	24 16 05	Tonga Islands Region 17.71 S 172.80 W
	LmH	C	25 33.5	H = 23 56 28.1 h = 59.4 km MB=5.0 MS=5.2
	LmV	C	33.5	D = 146.95 Az = 355 (NEIS)
				PV A 1.8s 40.8nm
20.	+eP	AB	04 07 55	Kurile Islands 45.05 N 149.78 E
	LmH	B	44.7	H = 03 56 00.6 h = 47 km MB=5.5 MS=4.9
	LmV	B	45.3	D = 78.02 Az = 334 (NEIS)
				PV A 0.9s 81.7nm M = 5.8
				LmH B 17.5 1.5/um 5.4
				LmV B 20 1.3/um 5.3
20.	eP	AB	07 07 51	Near Coast of Northern Chile
	ePP	AB	11 51	20.41 S 69.99 W
	eiSKS	C	18 26	H = 06 54 11.3 h = 81 km MB = 5.6
	ePS	B	20 45	D = 100.38 Az = 40 (NEIS)
	eSS	B	26 00	PPV A 2.0s 102.6nm M = 6.1
	LmH	B	48.6	LmH B 22.5 1.7/um
	LmV	B	49.3	LmV B 22 2.4/um
20.	eP	A	15 45 32.5	Dodecanese Islands 35.19 N 27.06 E
				H = 15 41 10.6 h = 40.8 km MB = 3.9
				D = 19.08 Az = 329 (NEIS)
21.	ePKIKP	A	07 15 11	Banda Sea 6.72 S 129.57 E
	ePKiKP	A	15 54	H = 06 56 47.2 h = 119.6 km MB = 6.0
	ePP	AB	16 03	D = 112.71 Az = 322 (NEIS)
	esPP	B	17 00	PPV B 6s 1.2/um M = 6.4
	eSKS	B	21 56	LmH B 21.5 2.2/um
	esSKS	B	22 42	LmV B 19 1.5/um
	e	B	23 58	
	eSKSP	B	25 15	
	ePKKP	A	26 09	
	eSS	C	31 40	
	eSSS	C	35 30	
	LmH	B	58.4	
	LmV	B	08 08.6	

Day	Phase		h m s	Remarks
21.	eP	A	07 47 47.5	Mindanao, Philippine Islands
				6.88 N 123.82 E
				H = 07 34 14.9 h = 70 km MB = 5.4
				D = 98.46 Az = 323 (NEIS)
21.	epP	A	12 59 03	Northern Sumatra 3.44 N 96.18 E
				H = 12 46 24.7 h = 45 km MB = 5.1
				D = 83.90 Az = 320 (NEIS)
				pPV A 1.3s 17.5nm
21.	eiP	AB	22 00 46.5	Szechwan Province, China 32.57 N 104.25 E
	ePP	AB	03 14.5	H = 21 49 54.2 h = 33 km MB=6.1 MS=6.4
	ePPP	BC	04 48	D = 67.14 Az = 316 (NEIS)
	iS	B	09 42	PV A 1.9s 561.0nm M = 6.3
	eSKS	B	10 40	PV B 10 2.9/um 6.3
	eSS	B	13 48	SH B 10 4.2/um 6.5
	eSSS	B	17 16	LmH B 16 40.9/um 6.7
	LmH	B	27.2	LmV B 13 30.0/um 6.7
	LmV	B	32.1	
22.	eiP	AB	02 12 38	Southern Alaska 60.22 N 153.30 W
	epP	AB	13 12	H = 02 01 47.4 h = 144 km MB = 5.5
	epPP	B	15 52	D = 68.82 Az = 10 (NEIS)
	iS	B	21 30	h = 140 km
	eSKS	B	22 20	PV A 1.0s 74.9nm M = 5.5
	eSS	B	25 54	SH B 11 3.6/um 6.1
	eP'P'	A	40 49	P'P'V A 3.0 184.0nm
	epP'P'	A	41 20	pP'P'V A 3.0 157.9nm
22.	ePn	A	02 50 45.5	Northern Italy 44.60 N 9.63 E
	ePg	A	51 15	H = 02 49 16.5 h = 33 km MB = 4.8
	iSn	A	51 54	D = 6.19 Az = 12 (NEIS)
	iSg	A	52 39	LmH B 10s 1.7/um M = 3.9
				LmV B 11 2.5/um
22.	eP	A	03 09 57	Turkey 38.48 N 40.45 E
				H = 03 04 45.6 h = 33 km MB = 4.0
				D = 23.71 Az = 310 (NEIS)

Day	Phase		h m s	Remarks
22.	eP1	AB	13 32 45	Turkey 39.33 N 29.08 E
	eP2	A	32 51	H = 13 28 49.0 h = 13.7 km MB=4.8 MS=4.6
	eS	C	35 55	D = 16.71 Az = 318 (NEIS)
	LmV	B	40.7	P2V A 2.5s 92.2nm M = 4.5
	LmH	B	40.8	LmH B 11 1.7/um 4.5
				LmV B 11 1.1/um 4.5
22.	eP	A	17 22 18	Ionian Sea 37.41 N 20.56 E
				H = 17 18 46.9 h = 62.5 km MB = 4.4
				D = 14.69 Az = 337 (NEIS)
				PV A 1.0s 15.7nm M = 4.2
22.	ePKIKP	AB	21 29 10	New Hebrides Islands Region
	ePP	B	32 08	14.05 S 170.94 E
	eSS	C	50 30	H = 21 09 41.9 h = 30.8 km MB=5.7 MS=5.9
	eSSS	C	55 40	D = 139.82 Az = 340 (NEIS)
	LmH	B	22 27.7	LmH B 22s 1.9/um M = 5.8
	LmV	B	27.7	LmV B 22 3.0/um 6.0
23.	eP	A	03 18 30	Greece 38.35 N 20.67 E
	e	A	18 41	H = 03 15 15.5 h = 52.5 km MB = 4.5
	LmH	B	23.6	D = 13.88 Az = 335 (NEIS)
	LmV	B	24.5	PV A 1.0s 17.7nm M = 4.7
				LmH B 15 2.0/um 4.3
23.	+iP	AE	03 40 59.5	Szechwan Province, China
	ePP	B	43 29	32.49 N 104.18 E
	ePPP	B	45 06	H = 03 30 07.6 h = 33 km MB=6.2 MS=6.7
	iS	B	49 54	D = 67.16 Az = 316 (NEIS)
	iScS	B	51 00	PV A 2.2s 1112.0nm M = 6.6
	iSS	B	54 04	PV B 8 6.6/um 6.8
	iSSS	B	57 28	SH B 10 6.1/um 6.7
	LmH	B	04 07.5	LmH B 16 62.2/um 6.9
	LmV	B	12.7	LmV B 12.5 43.5/um 6.9
23.	eP	A	03 56 20	Mindanao, Philippine Islands
				6.52 N 124.09 E
				H = 03 42 44.4 h = 57.7 km MB = 5.8
				D = 98.90 Az = 323 (NEIS)
				PV A 2.0s 68.5nm M = 5.8

Day	Phase		h m s	Remarks
23.	ePn	A	15 52 41	Austria 46.2 N 13.2 E
	eSn	A	53 29	H = 15 51 30 h = 0 km
	eSg	A	53 33	D = 4.54 Az = 347 (ISC)
24.	ePn	A	23 24 05	Czechoslovakia 48.59 N 17.34 E
	ePb	A	24 11	H = 23 23 01.2 h = 33 km
	ePg	A	24 21	D = 4.25 Az = 301 (NEIS)
	e	A	24 23.5	
	eSn	A	24 55	
	eSg	A	25 18	
25.	eP	A	04 09 32	Eastern Caucasus 43.16 N 45.31 E
	LmH	B	20.4	H = 04 04 16.9 h = 33 km MB = 4.5
	LmV	B	20.6	D = 24.05 Az = 300 (NEIS)
				LmH B 13s 0.3/um M = 3.9
				LmV B 13 0.4/um 4.1
25.	eP	AB	12 43 11	Luzon, Philippine Islands
	epP	B	43 28	13.05 N 124.45 E
	ePP	B	47 00	H = 12 29 54.2 h = 22.9 km
	eSKS	B	53 40	MB = 5.6 MS = 5.6 (NEIS)
	eS	B	54 08	D = 94.0 h = 61 km
	ePS	B	55 25	PV A 1.5s 25.1nm M = 5.4
	ePPS	B	56 00	pPV A 1.3 30.6nm
	eSS	C	13 00 40	LmH B 22 3.0/um 5.7
	eSSS	C	04 35	LmV B 18 3.2/um 5.9
	LmH	B	28.3	
	LmV	B	30.1	
26.	LmV	B	12 56.6	Hokkaido Region 41.60 N 142.72 E
	LmH	B	56.7	H = 12 06 30.8 h = 51 km MB = 4.6 (ISC)
				D = 78.6
				LmH B 18s 0.2/um
				LmV B 18 0.25/um
26.	eP	A	14 42 18	Southern Nevada 37.13 N 116.08 W
				H = 14 30 00.2 h = 0 km
				MB = 5.3 MS = 4.2 (NEIS)
				D = 81.2

Day	Phase		h m s	Remarks
cont. 26.				Nuclear explosion BANON (ERDA) PV A 1.2s 24.4nm M = 5.1
27.	eP	A	02 44 08	Kurile Islands 44.28 N 149.71 E H = 02 32 08.3 h = 33 km MB = 5.0 (NEIS) D = 78.7 traces
27.	LmH	C	09 42.0	LmV C 19s 0.25/um
	LmV	C	43.5	
27.	ePn	A	23 09 56	Austria 47.02 N 11.09 E
	iPg	A	10 11.5	H = 23 09 03.0 h = 33 km (NEIS)
	iSn	A	10 35.5	D = 3.63
	iSg	A	10 57.0	
28.	eP	A	02 41 47	Andreanof Islands, Aleutian Is.
	epP	A	42 27.5	52.60 N 175.34 W H = 02 30 09.2 h = 145 km MB = 5.1 (NEIS) D = 76.8 h = 166 km PV A 1.0s 27.6nm M = 4.9 pPV A 1.5 35.2nm
28.	+iP	AB	03 04 50	Eastern Kazakh SSR 49.97 N 79.00 E
	ePn	A	06 21	H = 02 56 57.5 h = 0 km MB = 5.8 (NEIS) Underground explosion (UPP) D = 41.7 PV A 1.2s 187.0nm M = 5.7
28.	LmH	B	07 13.2	Northeastern China 39.92 N 118.84 E
	LmV	B	17.0	H = 06 34 04.3 h = 33 km MB = 4.7 (NEIS) D = 69.6 LmH B 18s 1.1/um M = 5.2 LmV B 12 0.4/um 4.9
28.	e	A	10 33 49	Poland (VIE)
	eSg	A	34 27	

Day	Phase		h m s	Remarks
28.	LmH	B	16 10.2	LmH B 17s 0.3/um
	LmV	B	10.5	LmV B 17 0.4/um
28.	ePKP	A	16 33 08	Tonga Islands 16.04 S 173.25 W H = 16 13 31.7 h = 33 km MB = 5.2 MS = 4.6 (NEIS) D = 145.3 PKPV A 1.4s 65.1nm
28.	LmH	B	17 00.4	LmH B 16s 0.5/um
29.	LmH	B	03 14.1	Ceram Sea 2.51 S 126.97 E
	LmV	B	16.0	H = 02 06 57 h = 7 km MB = 5.5 (ISC) D = 107.8 LmH B 16s 0.5/um M = 5.2 LmV B 16 0.3/um 4.9
29.	LmH	B	06 14.0	Eastern Island Region 29.76 S 111.75 W
	LmV	B	14.0	H = 04 57 34.9 h = 33 km MB = 5.5 MS = 5.6 (NEIS) D = 133.2 LmH B 18s 0.5/um M = 5.2 LmV B 18 0.6/um 5.3
29.	eP	A	10 55 14	North of Severnaja Zemlya 85.52 N 89.01 E H = 10 47 52.0 h = 33 km MB = 4.8 MS = 3.9 (NEIS) D = 38.6 PV A 1.2s 12.2nm M = 4.8
29.	eP	A	15 25 29	Northern Sumatra 3.40 N 96.28 E H = 15 13 01.8 h = 50.3 km MB = 5.1 (NEIS) D = 84.1 PV A 1.5s 20.1nm M = 4.9
30.	eP	AB	02 13 51	Mindanao, Philippine Islands
	ePP	B	17 56	6.64 N 123.92 E
	eS	B	25 16	H = 02 00 10.3 h = 33 km

Day	Phase		h m s	Remarks
cont.				
30.	ePS	B	02 26 48	MB = 5.3 MS = 5.3 (NEIS)
	eSS	C	32 00	D = 98.8
	LmH	B	55.4	PV A traces
	LmV	B	03 01.1	LmH B 20s 1.8/um M = 5.6
				LmV B 19 1.5/um 5.5
30.	ePKHKP	A	03 03 34	Southern of Fiji Islands
				23.17 S 179.15 E
				H = 02 44 44.3 h = 571 km MB = 5.1 (NEIS)
				D = 151.5
30.	ePKP2	A	05 47 28	Fiji Islands Region 21.22 S 179.15 W
	epPKP	A	49 44	H = 05 28 39.3 h = 612.6 km MB = 4.9
				D = 149.44 Az = 346 (NEIS)
30.	ePKIKP	A	08 56 36	Caroline Islands Region 1.10 N 147.53 E
	epPKIKP	A	56 51	H = 08 37 54.8 h = 53 km MB=5.8 MS=5.9
	ePP	B	57 42	D = 116.27 Az = 330 (NEIS)
	ePPP	B	59 46	h = 55 km
	eS diff	B	09 05 24	LmH B 19.5s 2.7/um M = 5.9
	ePS	B	07 20	LmV B 18 2.3/um 5.8
	eSS	B	13 35	
	eSSS	B	18 05	
	LmH	B	40.2	
	LmV	B	49.7	
30.	LmH	B	18 02.3	Mindanao 6.29 N 123.86 E
	LmV	B	05.1	H = 17 03 48.5 h = 33 km MB = 4.9 (ISC)
				D = 99.0
				LmH B 19.5s 1.0/um M = 5.3
				LmV B 19 0.8/um 5.2
31.	eP	A	03 36 38	Northeastern China 39.80 N 118.86 E
	eS	C	45 40	H = 03 25 27.8 h = 31.8 km MB=5.3 MS=5.3
	LmH	B	04 04.5	D = 69.74 Az = 320 (NEIS)
	LmV	B	10.6	PV A 1.7s 66.6nm M = 5.4
				LmH B 18.5 15.7/um 6.3
				LmV B 14 7.0/um 6.1

Day	Phase		h m s	Remarks
31.	eSg	A	08 26 45	Northern Italy 44.38 N 10.08 E
				H = 08 23 08.0 h = 1.5 km
				D = 6.35 Az = 9 (NEIS)
31.	ePKP2	A	09 27 16	Kermadec Islands 30.10 S 178.11 W
				H = 09 06 50.4 h = 55 km MB = 5.4 (NEIS)
				D = 158.1
31.	ePKIKP	A	13 42 02	Kermadec Islands Region 28.29 S 176.63 W
	ePKP2	A	42 31	H = 13 22 10.9 h = 51.2 km MB=5.5 MS=5.9
	ePP	B	46 06	D = 156.81 Az = 347 (NEIS)
	eSS	B	14 06 00	PPV B 9s 0.9/um M = 5.8
	LmH	B	15 00.5	LmH B 18 1.4/um 5.7
	LmV	B	06.9	LmV B 18 1.5/um 5.8

Day	Phase		h m s	Remarks
1.	eP	A	01 17 46.5	Szechwan Province, China
	LmH	B	48.9	32.46 N 104.15 E
	LmV	B	48.9	H = 01 06 51.8 h = 18 km MB = 5.1 (NEIS)
				D = 67.0
1.	+iPKP	AB	13 45 00.1	New Hebrides Islands 20.41 S 169.36 E
	LmH	C	14 41.6	H = 13 25 29.8 h = 75 km MB = 5.7 (NEIS)
	LmV	C	43.5	D = 145.0
				LmH C 30s 0.4/um
				LmV C 30 0.6/um
1.	eP	A	21 14 46	Turkey 36.22 N 29.49 E
				H = 21 10 17.4 h = 5 km
				D = 19.33 Az = 324 (NEIS)
2.	e(Sg)	A	02 53 17.5	Northern Italy 45.5 N 11.8 E
				H = 02 50 41 h = 0 km (ISC)
				D = 5.15
2.	eP	A	10 33 04	Near Coast of Guatemala 13.26 N 89.99 W
	LmH	C	11 11.5	H = 10 20 25.9 h = 81 km MB = 5.0 (NEIS)
	LmV	C	15.8	D = 87.0
				LmH C 18s 0.6/um
				LmV C 19 1.4/um
2.	ePg	A	12 57 16	Northern Italy 44.50 N 9.54 E
	eSn	A	57 55.5	H = 12 55 11.5 h = 5 km (ISC)
	eSg	A	58 43	D = 6.25
2.	eiPKHKP	A	17 49 21	Fiji Islands Region 20.07 S 176.68 W
	ePKP2	A	49 25.8	H = 17 30 08.6 h = 309.2 km MB = 4.9
				D = 148.79 Az = 350 (NEIS)
				PKHKPV A 0.9s 31.1nm

Day	Phase		h m s	Remarks
3.	eP	A	10 08 27	Szechwan Province, China 28.04 N 100.35 E
	e	A	08 34	H = 09 57 28.5 h = 33 km MB = 5.2 (NEIS)
	LmH	C	35.5	D = 68.2
	LmV	C	42.7	PV A 1.2s 18.3nm M = 5.0
				LmH C 24 0.5/um 4.7
				LmV C 18 0.5/um 4.8
3.	e	A	17 28 00	Kermadec Islands Region 30.27 S 177.6 W
				H = 17 07 37 h = 73 km (ISC)
				D = 158.5
3.	eP1	A	22 00 40	Afghanistan - USSR Border Region
	eP2	A	00 44.5	38.92 N 70.72 E
	e	A	00 48	H = 21 52 46.8 h = 42.6 km MB=5.1 MS=4.7
	LmV	B	21.6	D = 42.48 Az = 306 (NEIS)
	LmH	B	21.8	P2V A 1.2s 28.5nm M = 5.9
				LmH B 16 0.7/um 4.6
				LmV B 16 1.6/um 5.1
4.	e(PKP2)	A	04 31 16	Kermadec Islands Region 28.16 S 176.35 W
				H = 04 10 42.1 h = 33 km MB = 5.0
				D = 155.6
4.	LmV	C	06 23.4	Santa Cruz Islands 11.11 S 165.13 E
	LmH	C	33.7	H = 05 04 59 h = 25 km MB = 5.3
				D = 135.0
				LmH C 20s 0.4/um M = 5.1
				LmV C 20 0.4/um 5.1
4.	ePP	A	12 03 26.5	Solomon Islands 10.25 S 161.09 E
	eSKP	A	04 32.5	H = 11 41 59.7 h = 83 km MB = 5.6 (NEIS)
	LmH	C	54.5	D = 132.5
	LmV	C	13 00.0	PPV A 1.6s 27.5nm M = 5.5
				LmH C 25 0.3/um
				LmV C 22 0.4/um
4.	ePg	A	19 43 08	Northern Italy 44.48 N 9.68 E
	eSn	A	43 46	H = 19 41 06.9 h = 33 km
	eSg	A	44 36.5	D = 6.31 Az = 11 (NEIS)

Day	Phase		h m s	Remarks
5.	LmH	C	01 58.0	Santa Cruz Islands 11.74 S 166.10 E
	LmV	C	02 03.0	H = 00 37 10.5 h = 33 km MB = 4.7 (ISC)
				D = 135.9
				LmH C 22s 0.2/um M = 4.8
				LmV C 19 0.35/um 5.1
5.	ePg	A	12 09 09.5	Northern Italy 44.57 N 9.60 E
	eSn	A	09 47	H = 12 07 06.3 h = 10 km
	eSg	A	10 32	D = 6.23 Az = 12 (NEIS)
5.	ePg	A	13 55 54	Northern Italy 44.49 N 9.7 E
				H = 13 53 49.8 h = 0 km (ISC)
				D = 6.35
5.	LmH	C	16 05.0	Afghanistan - USSR Border Region
	LmV	C	05.0	38.44 N 70.14 E
				H = 15 36 32 h = 13 km MB = 5.0 (ISC)
				D = 42.4
5.	ePg	A	15 29 39	Northern Italy 44.37 N 10.20 E
	eSn	A	30 17.5	H = 16 27 32.4 h = 33 km (NEIS)
	eSg	A	31 02	D = 6.40
5.	eP	A	16 49 58	Iran 31.43 N 49.97 E
	e	A	51 31	H = 16 43 15.8 h = 44 km MB = 5.1 (NEIS)
	LmH	C	17 07.0	D = 34.2
5.	eP	A	20 24 26	Guerrero, Mexico 18.74 N 101.12 W
				H = 20 11 37.9 h = 85.9 km MB = 5.3
				D = 89.25 Az = 36 (NEIS)
				PV A 1.5s 35.2nm M = 5.3
5.	eP	AB	22 12 50	Turkey 38.30 N 40.85 E
	eiS	B	17 08	H = 22 07 34.9 h = 22 km
	LmH	B	23.4	MB = 5.1 MS = 4.8 (NEIS)
	LmV	B	24.6	D = 24.02
				PV A 1.9s 121.2nm M = 5.5
				PV B 4.5 0.7/um 5.5
				SH B 12.5 3.9/um 5.7

Day	Phase		h m s	Remarks
cont. 5.				LmH B 17s 3.0/um M = 4.9
				LmV B 14 2.4/um 5.0
5.	eSn	A	23 54 42	Northern Italy 46.35 N 9.97 E
	eSg	A	55 11.5	H = 23 52 49.0 h = 10 km
				D = 4.43 Az = 14 (NEIS)
6.	eSn	A	00 28 40	Northern Italy 44.54 N 9.41 E
				H = 00 25 59.3 h = 33 km (NEIS)
				D = 6.30
6.	e	A	01 56 03.5	Mindanao, Philippine Islands
	LmH	B	02 38.5	7.77 N 123.68 E
	LmV	B	43	H = 01 42 17.0 h = 25 km MB=5.4 MS=4.6
				D = 97.67 Az = 323 (NEIS)
				LmH B 18.5s 0.7/um M = 5.2
				LmV B 18 0.6/um 5.2
6.	eP1	A	10 01 58	North Atlantic Ocean 58.17 N 32.17 W
	eP2	A	02 03	H = 09 56 25.6 h = 33 km (NEIS)
	LmH	B	12.5	D = 26.3
	LmV	B	12.7	P1V A 1.2s 24.4nm M = 4.7
				P2V A 1.7 60.6nm 4.9
				LmV B 16 1.3/um 4.7
6.	eP	A	16 11 35	Iran 31.13 N 50.37 E
				H = 16 04 45.1 h = 39 km MB = 5.0 (NEIS)
				D = 34.8
				traces
6.	iPn	A	19 29 23	Austria 46.24 N 13.03 E
	ePg	A	29 42.5	H = 19 28 13.7 h = 5 km MB = 5.2
	iSn	A	30 13	D = 4.5 Az = 348 (NEIS)
	eSg	A	30 37	PnV A 0.6s 38.3nm
7.	eP	A	04 52 43	Northern Sumatra 4.84 N 96.97 E
	LmV	C	05 34.5	H = 04 40 18.7 h = 33 km
				MB = 5.5 MS = 4.9 (NEIS)
				D = 83.4
				PV A 2.0s 51.3nm M = 5.3

Day	Phase		h m s	Remarks
7.	LmH	C	06 50.0	Off East Coast of Honshu 37.59 N 142.84 E
	LmV	C	55.3	H = 06 03 15.5 h = 47 km (ISC)
				D = 82.2
				LmH C 19s 0.6/um M = 5.0
				LmV C 17 0.4/um 4.9
7.	iPn	A	11 09 25.5	Austria 46.22 N 13.02 E
	ePg	A	09 45	H = 11 08 16.3 h = 10 km
	iSn	A	10 16.0	D = 4.52 Az = 349 (NEIS)
	eiSg	AB	10 40	PnV A 0.4s 36.8nm
	LmV	B	11.3	LmV B 8 0.6/um
7.	eP	A	22 19 41	Northern Sumatra 2.73 N 99.22 E
				H = 22 07 16.5 h = 175.4 km MB = 5.1
				D = 86.39 Az = 320 (NEIS)
				PV A 1.2s 14.2nm M = 4.6
7.	eP	A	23 24 17	Gulf of Campeche 18.06 N 93.62 W
				H = 23 12 07.2 h = 257.8 km MB = 4.4
				D = 85.51 Az = 38 (NEIS)
				PV A 1.2s 12.2nm M = 4.6
8.	eP	AB	02 26 49	Molucca Sea 0.06 S 124.84 E
	ePKiKP	A	30 01	H = 02 12 48.9 h = 64 km MB = 5.9
	ePP	AB	31 11	PV A 2.2s 98.1nm M = 6.2
	eS	C	38 35	PPV A 2.0 85.5nm 6.0
	ePPS	B	41 20	LmV B 20 1.5/um
	eSS	C	46 15	
	LmH	B	03 18.1	
	LmV	B	18.1	
8.	ePn	A	04 13 47	Austria 46.14 N 13.06 E
	eSn	A	14 40	H = 04 12 36.6 h = 10 km
	eSg	A	15 04	D = 4.61 Az = 348 (NEIS)
8.	eP	A	08 32 38	Washington 47.38 N 123.08 W
				H = 08 21 01.6 h = 48 km
				MB = 4.6 MS = 3.9 (NEIS)
				D = 74.9

Day	Phase		h m s	Remarks
8.	LmH	B	10 17.0	Mindanao 6.75 N 124.00 E
	LmV	B	21.0	H = 09 15 01.7 h = 58 km MB = 5.5 (ISC)
				D = 98.7
				LmV B 16s 0.5/um
8.	eS	A	19 59 20	France 45.72 N 0.96 E
				H = 19 54 41.6 h = 33 km (NEIS)
				D = 11.67
8.	eP	A	20 22 12	Kashmir - Tibet Border Region
	epP	A	22 16	32.05 N 78.68 E
	LmH	B	46.6	H = 20 13 02.3 h = 18 km
	LmV	B	46.6	MB = 5.4 MS = 5.0 (NEIS)
				D = 51.5 h = 17 km
				PV A 2.0s 59.8nm M = 5.2
				pPV A 1.4 55.8nm
				LmV B 11.5 0.9/um
9.	eP1	A	09 33 32	Svalbard Region 77.83 N 7.77 E
	eP2	A	33 35	H = 09 27 45.2 h = 5 km
	eS	C	38 12	MB = 5.2 MS = 5.2 (NEIS)
	LmH	B	43.9	D = 27.3
	LmV	B	44.4	P1V A 1.5s 30.2nm M = 4.8
				P2V A 2.0 102.6nm 5.2
				LmV B 16 2.4/um 5.0
9.	eP	A	09 51 58	Taiwan 24.37 N 121.81 E
	e	A	52 06	H = 09 39 38.0 h = 23 km MB = 5.3 (NEIS)
				D = 83.3
				PV A traces
9.	LmH	B	14 02.5	West Chile Rise 41.30 S 88.16 W
	LmV	B	02.5	H = 12 56 11.2 h = 33 km MB = 4.9 (ISC)
				D = 126.1
				LmV B 25s 1.1/um M = 5.4

Day	Phase		h m s	Remarks
9.	eP	A	15 37 29	Philippine Islands Region
				12.53 N 125.95 E
				H = 15 24 04.6 h = 14 km
				MB = 5.2 MS = 4.6 (NEIS)
				D = 95.2
9.	ePn	A	17 27 43	Austria 46.27 N 13.14 E
	ePg	A	28 02.5	H = 17 26 35.7 h = 11 km
	eSn	A	28 34	D = 4.49 Az = 348 (ISC)
	eSg	A	28 55.5	
10.	eP	A	05 13 45	Mindanao, Philippine Islands
	LmV	C	06 03.0	5.64 N 126.60 E
				H = 05 00 02.4 h = 65 km MB = 5.0 (NEIS)
				D = 100.8
				PV A traces
				LmV C 24s 0.5/um
10.	eP	A	15 08 28	Fox Islands, Aleutian Is.
	LmV	B	50.5	52.61 N 170.65 W
	LmH	B	54.0	H = 14 56 35.4 h = 33 km MB = 4.6 (NEIS)
				D = 77.0
				LmH B 20s 0.7/um M = 5.0
				LmV B 18 0.6/um 5.0
10.	LmV	B	15 31.7	Mindanao 7.63 N 123.77 E
				H = 14 50 09.8 h = 42 km MB = 5.6 (ISC)
				D = 97.8
				LmV B 14s 1.0/um M = 5.4
11.	ePKP	A	07 43 07.5	Samoa Islands Region 16.15 S 172.71 W
	epPKP	A	43 25	H = 07 23 30.7 h = 29 km
	esPKP	A	43 34	MB = 5.1 MS = 4.9 (NEIS)
				D = 145.3 h = 66 km
				PKPV A 2.0s 85.5nm
11.	iPn	A	08 52 07	Poland (VIE)
	eSg	A	52 49	D c. 2.6

Day	Phase		h m s	Remarks
11.	+iPn	A	16 32 20.5	Austria 46.28 N 13.16 E
	iPg	A	32 37	H = 16 31 12.0 h = 16 km
	iSn	A	33 12	MB = 5.2 MS = 5.5 (NEIS)
	LmH	B	34.0	D = 4.5
	LmV	B	34.1	Pn off scale
				LmH B 9s 38.2/um M = 5.0
				LmV B 12 37.8/um
11.	iPn	A	16 36 11	Austria 46.30 N 13.20 E
	LmH	B	37.9	H = 16 35 03.3 h = 20 km
	LmV	B	37.9	MB = 5.3 MS = 5.4 (NEIS)
				D = 4.5
				LmH B 9s 94.9/um M = 5.4
				LmV B 11 92.1/um
11.	eiPn	A	16 41 54	D c. 4.5
	iSn	A	42 45	
	eSg	A	43 10	
11.	iPn	A	16 50 05	Austria 46.23 N 13.20 E
	eSn	A	50 56	H = 16 48 55.9 h = 10 km (NEIS)
	iSg	A	51 18	D = 4.54
				Pn off scale
11.	ePn	A	17 36 11	Austria 46.38 N 13.0 E
	eSn	A	37 02	H = 17 35 05.0 h = 7 km
	eiSg	A	37 24.5	D c. 4.37 Az = 348 (ISC)
11.	eSg	A	18 08 12	Austria 46.31 N 13.3 E
				H = 18 05 48.5 h = 0 km (ISC)
				D = 4.45
11.	ePn	A	18 24 26	Austria 46.2 N 13.0 E
	eSn	A	25 18	H = 18 23 18 h = 1 km
	eSg	A	25 42	D = 4.53 Az = 349 (ISC)
11.	ePn	A	18 29 02	Austria 46.28 N 13.32 E
	eiSn	A	29 52	H = 18 27 51.8 h = 3 km
	eiSg	A	30 16	D = 4.52 Az = 346 (ISC)

Day	Phase		h m s	Remarks
11.	ePn	A	19 58 22.5	Austria 46.28 N 13.26 E
	eSn	A	59 13	H = 19 57 13.1 h = 0 km
	eSg	A	59 37.5	D = 4.50 Az = 347 (ISC)
11.	eiPn	A	21 06 56	Austria 46.21 N 13.07 E
	eiSn	A	07 47	H = 21 05 47.4 h = 10 km MB = 3.7 (NEIS)
	eiSg	A	08 10	D = 4.5
11.	e(Sg)	A	22 51 35	
12.	eP	A	00 46 20	Dodecanese Islands 36.67 N 26.98 E
				H = 00 42 19.3 h = 168 km MB = 4.3 (NEIS)
				D = 17.82
12.	eiPn	A	01 21 07.5	Austria 46.26 N 13.26 E
	eiPg	A	21 28	H = 01 19 58.3 h = 5 km
	eiSn	A	21 59	D = 4.52 Az = 347 (ISC)
	eiSg	A	22 23	
12.	eSg	A	02 28 08	Northern Italy 45.9 N 12.7 E
				H = 02 25 42 h = 7 km (ISC)
				D = 4.8
12.	ePn	A	03 48 38	Austria 46.1 N 13.1 E
	eSg	A	49 53	H = 03 47 29 h = 0 km
				D = 4.64 Az = 348 (ISC)
12.	ePn	A	08 09 41	Austria 46.28 N 13.17 E
	ePg	A	10 01	H = 08 08 32.1 h = 10 km (NEIS)
	eSn	A	10 32.5	D = 4.5
	eSg	A	10 55	
12.	ePn	A	08 15 59	Austria 46.44 N 12.95 E
	ePg	A	16 23.5	H = 08 14 52.6 h = 10 km (NEIS)
	eSn	A	16 50	D = 4.3
	iSg	A	17 12	PnV A 0.8s 26.9nm

Day	Phase		h m s	Remarks
12.	ePn	A	10 43 02	Austria 46.19 N 13.19 E
	eSn	A	43 53	H = 10 41 52.4 h = 10 km (NEIS)
	eiSg	A	44 17.5	D = 4.6
				PnV A 0.5s 26.9nm
12.	iPn	A	19 54 37	Austria 46.22 N 13.15 E
	eiPg	A	54 54.5	H = 19 53 27.6 h = 3.3 km MB = 4.4 (NEIS)
	eiSn	A	55 30	D = 4.6
	eiSg	A	55 53	PnV A 0.6s 176.2nm
	LmH	B	56.1	LmH B 2.5 4.6/um M = 4.7
	LmV	B	56.1	LmV B 2.5 1.5/um
13.	ePn	A	00 49 18	Austria 46.20 N 13.23 E
	ePg	A	49 41	H = 00 48 09 h = 14 km
	eSn	A	50 09	D = 4.58 Az = 347 (ISC)
	e(Sg)	A	50 30.5	
13.	LmH	B	01 32.5	LmH B 19s 0.35/um
	LmV	B	32.5	LmV B 16 0.45/um
13.	LmH	C	02 02.0	LmH C 20s 0.3/um
13.	ePn	A	04 12 05	Austria 46.25 N 13.28 E
	eSn	A	12 56	H = 04 10 54.9 h = 0 km
	e	A	13 23	D = 4.54 Az = 346 (ISC)
	e(Sg)	A	13 27	
13.	LmV	C	04 50.0	LmV C 21s 0.25/um
13.	ePn	A	07 05 03	Northern Italy 46.07 N 12.92 E
	ePg	A	05 20	H = 07 03 53.6 h = 10 km (NEIS)
	eSn	A	05 55	D = 4.7
	eSg	A	06 20	
13.	eSg	A	07 32 19	Austria 46.2 N 13.3 E
				H = 07 29 58 h = 0 km (ISC)
				D = 4.55

Day	Phase		h m s	Remarks
13.	LmV	C	09 12.0	Either Easter Island Cordillera
				26.51 S 115.02 W
				H = 08 05 46 h = 189 km MB = 4.6 (ISC)
				D = 133.0
				or
				Southern Sumatra 4.92 S 102.02 E
				H = 08 24 20 h = 48 km MB = 4.8 (ISC)
				D = 94.2
				LmV C 24s 0.2/um
13.	eSg	A	14 19 44	Austria 46.27 N 13.3 E
				H = 14 17 18.1 h = 0 km (ISC)
				D = 4.45
13.	iPn	A	18 55 55.5	Austria 46.21 N 13.18 E
	iPg	A	56 13	H = 18 54 46.1 h = 10 km MB = 3.9 (NEIS)
	iSn	A	56 47	D = 4.6
	iSg	A	57 08	PnV A 0.9s 241.2nm
	LmV	B	57.3	LmH B 2.5 1.6/um M = 4.2
	LmH	B	57.4	LmV B 2 1.9/um
13.	iPn	A	19 43 24	Austria 46.09 N 13.04 E
	ePg	A	43 43	H = 19 42 13.7 h = 10 km MB = 3.6 (NEIS)
	eiSn	A	44 17	D = 4.7
	eiSg	A	44 41	LmH B 4.5s 0.45/um M = 3.4
	LmH	B	45.3	LmV B 4.5 0.5/um
	LmV	B	45.5	
13.	ePn	A	21 26 20	Austria 46.1 N 13.2 E
	eSg	A	27 35	H = 13 21 25 h = 10 km
				D = 4.70 Az = 348 (ISC)
13.	ePKP2	A	22 06 03	Kermadec Islands 30.13 S 178.01 W
				H = 21 45 36.1 h = 60 km MB = 5.5 (NEIS)
				D = 158.0
14.	eX	A	00 47 46	Tonga 19.01 S 173.08 W
				H = 00 27 44.0 h = 33 km
				D = 148.22 Az = 354 (ISC)
				XV A 1.6s 24.7nm

Day	Phase		h m s	Remarks
14.	eSg	A	02 32 56	Austria 46.15 N 13.16 E
				H = 02 30 33.9 h = 10 km (ISC)
				D = 4.6
14.	eP	AB	06 53 53	Tibet 29.80 N 89.56 E
	epP	A	54 05.5	H = 06 43 52.3 h = 82.2 km MB = 5.5 (NEIS)
	eS	C	07 01 50	D = 60.3 h = 50 km
	eSS	C	05 55	PV A 1.6s 44.0nm M = 5.3
14.	eP	AB	06 54 20	Tibet 30.37 N 89.39 E
	e	A	54 32	H = 06 44 14.3 h = 15.3 km (NEIS)
	ePP	B	56 44	D = 59.7
	ePPP	B	58 00	
	eS	C	07 02 40	
14.	eP	A	08 26 29	Austria 46.19 N 13.02 E
	ePg	A	26 51	H = 08 25 21.3 h = 10 km (NEIS)
	eiSn	A	27 20.5	D = 4.6
	eiSg	A	27 42.5	
14.	ePn	A	15 30 15	Austria 46.1 N 13.0 E
	e	A	30 40	H = 15 29 05 h = 0 km
	eSn	A	31 06	D = 4.65 Az = 349 (ISC)
	eSg	A	31 28.5	
14.	ePKIKP	AB	16 05 30	Easter Island Cordillera
	ePP	C	07 55	26.43 S 115.07 W
	ePKS	B	08 52	H = 15 46 08.6 h = 33 km
	eSS	C	25 50	MB = 5.5 MS = 5.7 (NEIS)
	LmH	B	54.0	D = 133.1
	LmV	B	54.0	PKIKPV A 2.8s 128.8nm
				LmH B 22 1.9/um M = 5.7
				LmV B 22 1.8/um 5.7
14.	eSg	A	20 39 58	Austria 46.34 N 13.3 E
				H = 20 37 36 h = 0 km (ISC)
				D = 4.4

Day	Phase		h m s	Remarks
14.	e	A	23 08 37	West Irian 3.72 S 138.02 E
	ePP	B	09 05	H = 22 49 32.4 h = 75 km MB = 5.8 (NEIS)
	ei	C	09 40	D = 115.2
	e	B	12 05	LmH B 22s 3.0/um
	ePS	C	19 30	LmV B 24 2.9/um
	ePPS	C	20 25	
	LmH	B	50.3	
	LmV	B	55.8	
14.	e	A	23 48 57	Southern Iran 28.00 N 53.52 E
				H = 23 41 26.4 h = 23 km
				MB = 5.0 MS = 5.2 (NEIS)
				D = 38.8
15.	ePn	A	01 31 16	Austria 46.29 N 13.22 E
	eSn	A	32 07	H = 01 30 08.8 h = 10 km (CSEM)
	eSg	A	32 30	D = 4.5
15.	e	A	02 14 31	Komandorsky Islands Region
				55.49 N 166.26 E
				H = 02 02 53.6 h = 33 km
				MB = 5.0 MS = 5.3 (NEIS)
				D = 72.0
15.	iPn	AB	03 16 29	Austria 46.30 N 13.20 E
	LmH	B	18.3	H = 03 15 19.9 h = 10 km
	LmV	B	18.3	MB = 5.7 MS = 6.0 (NEIS)
				D = 4.5
				Pn off scale
				LmH B 11s 278.9/um M = 5.8
				LmV B 14 248.0/um
15.	ePn	A	03 26 20	Austria 46.32 N 13.29 E
	eSn	A	27 11	H = 03 25 11.2 h = 0 km
	eSg	A	27 36	D = 4.47 Az = 346 (ISC)
15.	ePn	A	03 40 31	Austria 46.26 N 13.16 E
	eSn	A	41 21.5	H = 03 39 24.0 h = 10 km (CSEM)
	eSg	A	41 45	D = 4.5

Day	Phase		h m s	Remarks
15.	ePn	A	03 53 46.5	Austria 46.19 N 13.14 E
	eSn	A	54 38	H = 03 52 38.3 h = 10 km (NEIS)
	eSg	A	55 00	D = 4.6
15.	ePn	A	03 56 59.5	Austria 46.26 N 13.21 E
	eSn	A	56 50	H = 03 55 52.1 h = 10 km (CSEM)
	eSg	A	57 11	D = 4.5
15.	ePn	A	04 31 48	Austria 46.19 N 13.16 E
	eSn	A	33 02	H = 04 30 39.4 h = 10 km MB = 4.0 (NEIS)
				D = 4.6
15.	eiPn	A	04 40 02	Austria 46.31 N 13.14 E
	eiSn	A	40 52	H = 04 38 53.3 h = 10 km MB = 4.9 (NEIS)
	eiSg	A	41 16	D = 4.5
	LmH	B	41.9	LmH B 10s 5.7/um M = 4.1
	LmV	B	41.9	LmV B 10 6.9/um
15.	iPn	A	04 59 51	Austria 46.30 N 13.11 E
	eSn	A	05 00 41.5	H = 04 58 42.5 h = 8.3 km MB = 4.5 (NEIS)
	eSg	A	01 04.5	D = 4.5
15.	ePn	A	05 39 33	Northern Italy 46.71 N 12.80 E
	ePg	A	39 52	H = 05 38 29.3 h = 10 km (NEIS)
	eSg	A	40 46	D = 4.0
15.	iPn	AB	09 22 27.5	Austria 46.32 N 13.13 E
	LmH	B	24.3	H = 09 21 19.1 h = 17 km
				MB = 5.4 MS = 5.9 (NEIS)
				D = 4.4
				Pn off scale
				LmH B 12s 325.0/um M = 6.3
15.	iPn	A	09 35 12	Austria 46.41 N 13.11 E
	iSn	A	36 04.5	H = 09 34 04.7 h = 10 km
	eSg	A	36 22	D = 4.4

Day	Phase		h m s	Remarks
15.	ePn	A	09 38 38.5	Austria 46.29 N 12.98 E
	eSn	A	39 30	H = 09 37 30.3 h = 0 km
	eSg	A	39 50.5	D = 4.46 Az = 349 (ISC)
15.	iPn	A	09 47 04.0	Austria 46.23 N 13.08 E
	iSn	A	47 55	H = 09 45 55.6 h = 10 km MB = 4.1 (NEIS)
	iSg	A	48 17	D = 4.5
15.	ePn	A	09 54 41	D c. 4.5
	eSn	A	55 32	
	eSg	A	55 54	
15.	ePn	A	09 56 57	Northern Italy 46.33 N 12.47 E
	eSn	A	57 49	H = 09 55 54.5 h = 10 km (NEIS)
	eSg	A	57 09.5	D = 4.4
15.	ePn	A	10 33 55	Austria 46.33 N 13.02 E
	eSn	A	34 45	H = 10 32 47.6 h = 10 km (NEIS)
	eSg	A	35 08	D = 4.4
15.	ePn	A	10 52 13.5	Yugoslavia 45.7 N 16.1 E
	e(Sn)	A	53 27	H = 10 50 47 h = 0 km
				D = 5.74 Az = 330 (ISC)
15.	ePn	A	10 55 38.5	Austria 46.20 N 13.04 E
	eSn	A	56 30	H = 10 54 29.0 h = 0 km
	eSg	A	56 53	D = 4.55 Az = 348 (ISC)
15.	iPn	A	11 12 19.5	Austria 46.33 N 13.18 E
	iSn	A	13 10	H = 11 11 10.8 h = 10 km
				MB = 4.9 MS = 4.9 (NEIS)
				D = 4.4
15.	eiPn	A	11 18 52.5	Austria 46.26 N 13.09 E
	ePg	A	19 11.5	H = 11 17 44.3 h = 10 km (NEIS)
	eSn	A	19 45	D = 4.5
	iSg	A	20 05.5	

Day	Phase		h m s	Remarks
15.	ePn	A	11 28 31.5	Austria 46.4 N 13.3 E
	eSg	A	29 45.5	H = 11 27 23 h = 0 km
				D = 4.4 Az = 346 (ISC)
15.	ePn	A	11 40 11	Northern Italy 46.11 N 12.7 E
	eSn	A	40 59.5	H = 11 38 58 h = 0 km
	eSg	A	41 24	D = 4.60 Az = 352 (ISC)
15.	ePn	A	11 52 17	Austria 46.28 N 13.3 E
	eSg	A	53 29	H = 11 51 04 h = 0 km
				D = 4.51 Az = 346 (ISC)
				traces
15.	ePn	A	12 51 53.5	Austria 46.16 N 13.05 E
	eSn	A	52 45	H = 12 50 45.1 h = 10 km (NEIS)
	eSg	A	53 06.5	D = 4.6
15.	ePKP2	A	13 03 24.5	Kermadec Islands Region 31.03 S 179.67 E
				H = 12 43 41.4 h = 456 km
				D = 158.47 Az = 339 (ISC)
				PV A 1.4s 23.2nm
15.	ePn	A	13 13 59	D c. 4.5
	eSn	A	14 51	
	eSg	A	15 15	
15.	e(Sg)	A	13 28 19	Austria 46.46 N 13.3 E
				H = 13 25 58 h = 0 km (ISC)
				D = 4.3
15.	iPn	A	14 43 43.5	Austria 46.27 N 12.99 E
	iPg	A	44 02	H = 14 42 35.4 h = 10 km (NEIS)
	iSn	A	44 33	D = 4.5
	iSg	A	44 55	
15.	iPn	A	15 21 01	Northern Italy 46.33 N 12.90 E
	iPg	A	21 18.5	H = 15 19 53.9 h = 10 km (NEIS)
	iSn	A	21 51	D = 4.4
	eiSg	A	22 13	

Day	Phase		h m s	Remarks
15.	iPn	A	15 25 31.5	Northern Italy 45.91 N 12.62 E
	eSn	A	26 22	H = 15 24 24.9 h = 10 km (NEIS)
	eSg	A	26 44	D = 4.8
15.	iPn	A	16 12 29	Austria 46.24 N 13.16 E
	iSn	A	13 20.5	H = 16 11 21.4 h = 10 km (CSEM)
	iSg	A	13 42	D = 4.5
15.	iPn	A	16 25 34	Austria 46.26 N 13.14 E
	eSg	A	26 45	H = 16 24 24.2 h = 10 km (NEIS)
				D = 4.5
15.	ePn	A	16 50 57	Northern Italy 46.37 N 12.97 E
	eSn	A	51 47.5	H = 16 49 49.1 h = 0 km
	eSg	A	52 11	D = 4.38 Az = 349 (ISC)
15.	iPn	A	17 27 12.5	Austria 36.34 N 13.05 E
	eSn	A	28 04.5	H = 17 26 04.7 h = 0 km
	eiSg	A	28 25.5	D = 4.41 Az = 348 (ISC)
15.	ePn	A	17 37 03	Northern Italy 46.43 N 12.99 E
	eSn	A	37 54	H = 17 35 55.2 h = 0 km
	eSg	A	38 15	D = 4.32 Az = 348 (ISC)
15.	iPn	A	17 46 01.3	Northern Italy 45.77 N 12.75 E
	ePg	A	46 19	H = 17 44 51.4 h = 10 km (NEIS)
	eSn	A	46 51	D = 4.9
	iSg	A	47 13	
15.	e(Sg)	A	19 20 33	
15.	iPn	A	19 32 20.5	Austria 46.22 N 13.17 E
	ePg	A	32 39.5	H = 19 31 11.0 h = 10 km
	iSn	A	33 11.5	D = 4.6
	iSg	A	33 34.5	PnV A 0.7s 65.1nm
15.	ePn	A	19 58 31	Austria 46.2 N 13.0 E
	eSn	A	59 21	H = 19 57 23 h = 0 km
	eSg	A	59 46	D = 4.58 Az = 349 (ISC)

Day	Phase		h m s	Remarks
15.	ePn	A	20 12 57	Austria 46.38 N 13.3 E
	eSg	A	14 11	H = 20 11 49
				D = 4.41 Az = 346 (ISC)
15.	ePn	A	20 17 47	D c. 4.5
	eSg	A	19 02	
15.	iPn	A	20 25 17.5	Northern Italy 46.17 N 12.93 E
	iSn	A	26 08.5	H = 20 24 09.9 h = 10 km MB = 3.5 (NEIS)
	eiSg	A	26 29.5	D = 4.6
15.	ePn	A	20 36 03.5	Austria 46.23 N 13.14 E
	eSn	A	36 53	H = 20 34 54.0 h = 10 km (NEIS)
	eiSg	A	37 16.5	D = 4.5
15.	ePn	A	20 45 56.5	Austria 46.28 N 12.99 E
	eSn	A	46 48	H = 20 44 48.2 h = 10 km (NEIS)
	eSg	A	47 09	D = 4.5
15.	iPn	A	22 19 31.5	
	eSg	A	20 10	
15.	ePn	A	22 22 11	Austria 46.36 N 13.14 E
	ePg	A	22 34	H = 22 21 00.9 h = 0 km
	eSg	A	23 24	D = 4.41 Az = 347 (ISC)
15.	ePn	A	22 36 52.5	Austria 46.64 N 13.83 E
	ePg	A	37 12	H = 22 35 40.8 h = 33 km (NEIS)
	eSn	A	37 42	D = 4.3
	eSg	A	38 06.5	
15.	ePn	A	23 34 44	Austria 46.33 N 13.1 E
	eSn	A	35 34	H = 23 33 34.5 h = 0 km
	eSg	A	35 58.5	D = 4.43 Az = 348 (ISC)
15.	iPn	A	23 39 54.0	Svabian Jura Region, Fed. Rep. of Germany
	iPg	A	40 02.5	48.27 N 8.90 E
	iSg	A	40 40.5	H = 23 39 08.9 h = 5 km (NEIS)
				D = 3.0

Day	Phase		h m s	Remarks
16.	ePg	A	00 07 28	Svabian Jura Region, Fed. Rep. of Germany
	eSg	A	08 06	48.27 N 9.23 E
				H = 00 06 34.1 h = 10 km (NEIS)
				D = 2.9
16.	iPn	A	01 31 52.0	Austria 46.30 N 13.12 E
	iPg	A	32 11.5	H = 01 30 44.0 h = 10 km (NEIS)
	iSn	A	32 43	D = 4.5
	iSg	A	33 05	PnV A 0.6s 38.3nm
16.	ePn	A	02 10 01	Austria 46.5 N 13.3 E
	eSg	A	11 14	H = 02 08 51 h = 0 km
				D = 4.32 Az = 346 (ISC)
16.	eSg	A	02 44 48	Austria 46.3 N 13.3 E
				H = 02 42 26 h = 0 km (ISC)
				D = 4.5
16.	ePn	A	03 31 42	Austria 46.1 N 13.1 E
	eSg	A	32 57	H = 03 30 37 h = 33 km
				D c. 4.67 Az = 348 (ISC)
16.	eP	AB	03 33 35	North of Svalbard 84.33 N 0.78 E
	ePP	B	34 48	H = 03 26 52.0 h = 8 km
	eS	B	39 00	MB = 5.3 MS = 5.5 (NEIS)
	LmH	B	48.4	D = 33.9
	LmV	B	49.6	PV A 2.4s 442.0nm M = 6.0
				LmH B 18 3.4/um 5.1
				LmV B 17 3.0/um 5.2
16.	eP	A	03 59 40	North of Svalbard 84.18 N 1.07 E
				H = 03 52 55.3 h = 10 km MB = 4.5 (NEIS)
				D = 33.7
				PV A 1.0s 11.8nm
16.	eP1	A	04 09 48	North of Svalbard 84.35 N 0.85 E
	eP2	A	09 53	H = 04 03 04.1 h = 10 km
	eS	B	15 15	MB = 5.0 MS = 5.3 (NEIS)
				D = 34.0
				P2V A 1.5s 50.3nm M = 5.2

Day	Phase		h m s	Remarks
16.	eP	A	04 16 35.5	North of Svalbard 84.3 N 1.5 E
				H = 04 09 48.9
				D = 33.87 Az = 170 (ISC)
16.	eP1	A	04 19 58.5	North of Svalbard 84.18 N 2.12 E
	eP2	A	20 02	H = 04 13 15.5 h = 10 km
	eS	B	25 28	MB = 5.2 MS = 5.4 (NEIS)
	LmV	B	33.1	D = 33.8
	LmH	B	34.8	P1V A 1.6s 49.5nm M = 5.2
				P2V A 1.8 91.2nm 5.4
				SH B 14 1.8/um 5.6
				LmH B 18 2.6/um 5.0
				LmV B 16 2.5/um 5.1
16.	eP1	A	04 33 41.5	North of Svalbard 84.17 N 0.10 E
	eP2	A	33 47	H = 04 26 56.7 h = 10 km
	eS	B	39 10	MB = 5.0 MS = 5.3 (NEIS)
				D = 33.8
				P1V A 1.8s 43.9nm M = 5.1
				P2V A 1.8 57.4nm 5.2
				SH B 14 1.4/um 5.5
16.	eP1	A	04 35 05.5	North of Svalbard 84.22 N 0.98 E
	eP2	A	35 13.5	H = 04 28 23.3 h = 15 km MB = 5.2 (NEIS)
	eS	B	40 30	D = 33.8
				P1V A 1.8s 54.1nm M = 5.2
				P2V A 2.0 170.9nm 5.6
				SH B 14 1.8/um 5.5
16.	+eP1	AB	05 19 49.5	North of Svalbard 84.18 N 0.49 E
	eP2	AB	19 56.5	H = 05 13 05.9 h = 10 km
	eS	B	25 18	MB = 5.1 MS = 5.5 (NEIS)
	LmH	B	34.6	D = 33.8
	LmV	B	34.6	P1V A 1.8s 121.6nm M = 5.5
				P2V A 1.8 148.7nm 5.6
				SH B 12 1.3/um 5.5
				LmH B 17 2.3/um 5.0
				LmV B 18 1.9/um 5.0

Day	Phase	h m s	Remarks
16.	iPn A	05 41 46	Northern Italy 46.31 N 12.94 E
	e(Pg) A	42 03	H = 05 40 38.0 h = 10 km (NEIS)
	iSn A	42 37	D = 4.4
	iSg A	42 59	PnV A 0.7s 21.1nm
16.	eSg A	09 10 48	Austria 46.2 N 13.3 E
			H = 09 08 26 h = 0 km (ISC)
			D = 4.55
16.	ePKIKP1 AB	11 45 39	East Papua New Guinea Region
	ePKIKP2 AB	45 43	9.21 S 148.14 E
	ePP1 AB	47 30	H = 11 26 36.8 h = 15 km
	ePP2 A	47 34	MB = 5.7 MS = 5.9 (NEIS)
	ePPP B	50 08	D = 125.3
	ePS B	57 20	PKIKP1 V A 1.9s 75.8nm
	LmH B	12 39.5	PKIKP2 V A 1.9 136.4nm
	LmV B	41.8	PP1V A 2.2 152.7nm M = 6.1
			PP2V A 2.9 496.5nm 6.5
			PPV B 7 2.1/um 6.7
			LmH B 20 2.4/um 5.9
			LmV B 20 2.8/um 5.9
16.	ePn A	14 00 13	Czechoslovakia 50.9 N 14.7 E
	i A	00 36.8	H = 13 59 38 h = 0 km
	iSn A	00 37	D = 1.98 Az = 263 (ISC)
	iSg A	00 45	
16.	ePn A	14 28 44	Austria 46.33 N 13.21 E
	eSg A	29 58	H = 14 27 34.7 h = 0 km
			D = 4.45 Az = 347 (ISC)
16.	ePn A	16 27 49	Austria 46.35 N 13.26 E
	eSn A	28 40	H = 16 26 38.9 h = 0 km
	eSg A	29 02	D = 4.43 Az = 346 (ISC)
16.	ePn A	17 13 37	Austria 46.2 N 13.1 E
	eSg A	14 51	H = 17 12 29 h = 0 km
			D = 4.59 Az = 348 (ISC)

Day	Phase	h m s	Remarks
16.	ePn A	20 02 43	Austria 46.34 N 13.00 E
	eSn A	03 34	H = 20 01 36.1 h = 10 km (NEIS)
	eSg A	03 57	D = 4.4
16.	eSg A	21 11 50	Austria 46.2 N 13.2 E
			H = 21 09 30 (CSEM)
			D = 4.55
16.	ePn A	22 50 28.5	Svabian Jura Region, Fed. Rep. of Germany
	ePg A	50 38	48.32 N 9.07 E
	eSg A	51 14.5	H = 22 49 43.8 h = 10.7 km (NEIS)
			D = 2.9
16.	ePKHKP A	23 32 04.5	South of Fiji Islands 25.27 S 179.76 E
	ePKP2 A	32 18.5	H = 23 12 59.7 h = 445 km MB = 5.0 (NEIS)
16.	ePn A	23 53 07.5	Northern Italy 46.33 N 12.79 E
	eSn A	53 59	H = 23 52 00.4 h = 10 km (NEIS)
	eSg A	54 21.5	D = 4.4
17.	eSg A	00 41 18.5	Austria 46.2 N 13.2 E
			H = 00 38 54 (CSEM)
			D = 4.55
17.	eP A	01 26 56	Sicily 37.99 N 14.66 E
	LmH B	31.7	H = 01 23 55.9 h = 45 km MB = 4.9
	LmV B	32.7	D = 12.85
			PV A 1.5s 35.2nm M = 5.1
			LmH B 16 0.8/um 3.9
17.	e(Sg) A	02 49 36.5	Austria 46.1 N 13.1 E
	e A	49 44	H = 02 47 15 h = 0 km (ISC)
			D = 4.65
17.	eSg A	04 10 37	Northern Italy 44.70 N 9.29 E
			H = 04 07 13.5 h = 10 km (ISC)
			D = 6.15

Day	Phase		h m s	Remarks
17.	iPn	A	04 15 15.5	Austria 46.20 N 13.16 E
	ePg	A	15 34	H = 04 14 06.0 h = 10 km (NEIS)
	eiSn	A	16 05.5	D = 4.5
	iSg	A	16 29	
17.	eP1	A	07 29 46.5	North of Svalbard 84.22 N 0.40 W
	eP2	A	29 53	H = 07 23 02.9 h = 10 km
	LmH	C	40.0	MB = 5.0 MS = 4.8 (NEIS)
	LmV	C	40.0	D = 34.0
				P1V A 1.1s 16.1nm M = 4.9
				P2V A 1.1 40.3nm 5.3
				LmV C 44 0.5/um 4.0
17.	ePn	A	09 19 04	Austria 46.37 N 13.18 E
	eSn	A	19 55	H = 09 17 56.7 h = 10 km
	eSg	A	20 21	D = 4.41 Az = 347 (ISC)
17.	ePn	A	13 16 06	Austria 46.34 N 13.3 E
	eSn	A	16(58)	H = 13 14 57.4 h = 0 km
	eSg	A	17 20	D c. 4.45 Az = 346 (ISC)
17.	ePn	A	14 18 42.5	Austria 46.16 N 13.16 E
	eSn	A	19 33	H = 14 17 33.2 h = 10 km (NEIS)
	eSg	A	19 57	D = 4.5
17.	eP	A	16 48 20	Northern Sinkiang Prov., China
	epP	A	48 29	43.80 N 85.24 E
	esP	A	48 34	H = 16 39 37.4 h = 30 km MB = 4.8 (NEIS)
	LmH	C	17 05.8	D = 48.5 h = 40 km
	LmV	C	09.5	PV A 1.1s 18.2nm M = 5.0
				pPV A 0.8 19.2nm
				LmH C 16 0.2/um 4.3
				LmV C 14 0.4/um 4.6
17.	eSg	A	23 55 25	Austria 46.54 N 13.8 E
				H = 23 53 03.0 h = 0 km (ISC)
				D = 4.3

Day	Phase		h m s	Remarks
18.	iPn	A	00 40 47.5	Northern Italy 46.25 N 12.85 E
	iPg	A	41 06	H = 00 39 42.7 h = 33 km
	iSn	A	41 38	D = 4.5
	eiSg	A	41 58.5	
18.	e(Sg)	A	00 53 40.5	
18.	ePn	A	01 09 48	Austria 46.41 N 13.2 E
	eSn	A	10 38	H = 01 08 38.9 h = 0 km
	eSg	A	11 02.5	D c. 4.37 Az = 346 (ISC)
18.	ePn	A	03 29 37	D c. 4.5
	eSg	A	30 53.5	
18.	iPn	A	05 51 28.5	Austria 46.31 N 13.19 E
	i	A	51 29.2	H = 05 50 22.8 h = 33 km (NEIS)
	ePg	A	51 47	D = 4.45
	eSn	A	52 19	
	iSg	A	52 41	
18.	eP	A	10 44 30	Off East Coast of Kamchatka
	e	A	44 41	52.28 N 159.52 E
	LmH	B	11 15.4	H = 10 32 57.2 h = 36 km MB = 4.9 (NEIS)
	LmV	B	22.5	D = 73.8
				PV A 1.6s 38.5nm M = 5.4
				LmH B 24 1.1/um 5.1
				LmV B 16 0.7/um 5.1
18.	eP	A	13 25 52	Molucca Passage 2.46 N 126.80 E
	LmH	C	14 10.4	H = 13 11 49.2 h = 42 km MB = 5.5
	LmV	C	11.7	D = 103.75 Az = 324 (ISC)
				LmH C 36s 0.8/um M = 5.0
				LmV C 32 0.7/um 5.0
18.	ePn	A	16 23 40.5	Austria 46.30 N 13.25 E
	eSn	A	24 32	H = 16 22 31.3 h = 0 km
	eSg	A	24 56	D = 4.48 Az = 347 (ISC)

Day	Phase		h m s	Remarks
18.	e(Sg)	A	18 56 06	Austria 46.2 N 13.9 E
				H = 18 53 47 h = 0 km (ISC)
				D = 4.7
18.	eP	A	19 26 09.5	Northeastern China 39.87 N 118.75 E
	LmH	B	54.0	H = 19 15 01.8 h = 33 km MB = 4.9 (NEIS)
	LmV	B	20 00.1	D = 69.5
				PV A 1.5s 15.1nm M = 4.8
				LmH B 18.5 2.1/um 5.4
				LmV B 16 1.3/um 5.3
18.	ePn	A	21 50 49	Austria 46.03 N 13.20 E
	ePg	A	51 07.5	H = 21 49 41.1 h = 33 km (NEIS)
	eSn	A	51 34.5	D = 4.7
	eSg	A	52 04	
19.	iPn	A	10 28 01.3	Austria 46.29 N 13.01 E
	eSn	A	28 52	H = 10 26 53.3 h = 10 km
	eiSg	A	29 16	D = 4.46 Az = 348 (NEIS)
19.	ePn	A	11 14 19	Austria 46.32 N 13.09 E
	eSg	A	15 32	H = 11 13 11.8 h = 10 km
				D = 4.44 Az = 348 (NEIS)
19.	eP	A	12 36 17.5	South of Panama 7.29 N 82.24 W
	LmH	B	13 18.0	H = 12 23 30.7 h = 5.3 km MB=5.2 MS=4.7
	LmV	B	18.5	D = 86.86 Az = 40 (NEIS)
				PV A 1.3s 13.1nm M = 5.0
19.	eP	A	14 07 40	Burma-China Border Region
	e	A	07 52	22.44 N 100.98 E
	LmH	B	39.5	H = 13 56 13.7 h = 24.2 km MB=4.9 MS=4.5
				D = 72.59 Az = 318 (NEIS)
				PV A 1.5s 12.6nm M = 4.7
19.	iPn	A	14 53 41	Yugoslavia 45.44 N 14.24 E
	iSn	A	54 43	H = 14 52 20.3 h = 33 km
	eiSg	A	55 14	D = 5.50 Az = 342 (NEIS)

Day	Phase		h m s	Remarks
cont. 19.	LmH	B	14 55.9	LmH B 9s 0.9/um M = 3.5
	LmV	B	55.9	LmV B 9 1.3/um
19.	+iP	AB	15 10 18	Zambia 11.06 S 32.86 E
	i	AB	10 25	H = 14 59 43.7 h = 27 km
	eS	B	18 55	MB = 5.7 MS = 5.7 (NEIS)
	LmH	B	39.5	D = 64.3
	LmV	B	39.5	PV A 1.5s 100.5nm M = 5.7
				LmH B 20 1.8/um 5.3
				LmV B 18 2.4/um 5.5
19.	eP	A	16 14 04.5	Greenland Sea 74.22 N 8.78 E
				H = 16 08 55.0 h = 33 km MB = 4.9
				D = 23.69 Az = 175 (NEIS)
				PV A 1.6s 49.5nm M = 4.8
19.	eP1	A	16 22 21.5	Greenland Sea 74.24 N 8.84 E
	eP2	A	22 29	H = 16 17 12.2 h = 33 km MB = 4.7
	eS	B	26 40	D = 23.71 Az = 176 (NEIS)
				P1V A 1.6s 60.4nm M = 4.9
				P2V A 2.3 116.6nm 5.0
19.	eP	A	21 10 56.5	Guerrero, Mexico 18.22 N 100.47 W
	epP	A	11 18	H = 20 58 05.1 h = 55 km MB = 5.6
	eS	B	21 48	D = 89.31 Az = 36 (NEIS)
	LmH	B	53.0	h = 83 km
	LmV	B	53.3	PV A 1.7s 81.8nm M = 5.8
				PH A 1.8 52.6nm 5.9
				LmH B 17 0.5/um
20.	ePn	A	02 28 32	Austria 46.09 N 13.38 E
	ePg	A	28 50	H = 02 27 24.2 h = 33 km (NEIS)
	eSn	A	29 24	D = 4.7
	eSg	A	29 46	

Day	Phase		h m s	Remarks
20.	ePn	A	09 11 08.5	Austria 46.21 N 13.19 E
	ePg	A	11 27	H = 09 09 59.2 h = 18.8 km MB = 3.8
	iSn	A	11 56	D = 4.56 Az = 347 (NEIS)
	iSg	A	12 22.5	PnV A 0.8s 165.4nm
	LmH	B	13.0	LmH B 8.5 1.3/um M = 3.6
	LmV	B	13.0	LmV B 8 0.9/um
20.	e	A	15 18 52.5	Mindanao, Philippine Islands
	LmH	B	16 07.6	6.44 N 123.97 E
	LmV	B	12.5	H = 15 04 45.3 h = 47 km
				MB = 5.0 MS = 5.1 (NEIS)
				D = 99.0
				LmH B 17s 1.2/um M = 5.5
				LmV B 17 1.8/um 5.7
20.	eP	A	22 56 18.5	Szechwan Province, China
	LmH	B	23 22.2	32.77 N 104.12 E
	LmV	B	27.8	H = 22 45 28.5 h = 41.6 km MB = 5.0
				D = 66.92 Az = 316 (NEIS)
20.	iPn	A	23 35 28	Austria 46.21 N 13.11 E
	eiPg	A	35 48.5	H = 23 34 21.8 h = 33 km
	eiSn	A	36 18.5	D = 4.55 Az = 348 (NEIS)
	eiSg	A	36 42	PnV A 0.9s 27.2nm
21.	ePKHKP	A	02 37 04.5	Fiji Islands Region 20.86 S 178.68 W
	epPKP	A	39 20.5	H = 02 18 19.3 h = 580.5 km MB = 5.3
				D = 149.18 Az = 347 (NEIS)
				PKHKPV A 1.6s 63.2nm
21.	eP	A	03 12 21	Kodiak Island Region 57.84 N 152.12 W
				H = 03 01 04.6 h = 33 km MB = 4.9
				D = 71.05 Az = 11 (NEIS)
				PV A 1.0s 15.7nm M = 5.0
21.	eP	AB	15 04 34.5	Sicily 38.84 N 14.70 E
				H = 15 01 50.6 h = 302.1 km MB = 4.9
				D = 12.01 Az = 351 (NEIS)
				PV A 1.5s 80.4nm M = 4.8
				PH A 1.5 60.3nm 4.8

Day	Phase		h m s	Remarks
21.	ePn	A	16 19 04.5	Austria 46.35 N 12.97 E
	ePg	A	19 23	H = 16 17 58.9 h = 33 km
	eSn	A	19 56	D = 4.39 Az = 349 (NEIS)
	eSg	A	20 17	PnV A 0.9s 11.7nm
22.	+iP	AB	00 28 01	Kurile Islands 44.88 N 149.23 E
	eS	B	37 48	H = 00 16 08.2 h = 64 km MB = 6.1
	LmH	B	01 02.8	D = 78.00 Az = 334 (NEIS)
	LmV	B	06.4	PV A 1.5s 984.9nm M = 6.5
				PH A 1.8 616.8nm 6.5
				PV B 2 3.7/um 7.0
				LmH B 22 4.3/um
				LmV B 16 2.3/um
22.	eP	A	02 42 20	Andreanof Islands, Aleutian Is.
	e	A	42 56	51.72 N 175.95 W
	eSS	C	57 20	H = 02 30 25.7 h = 43.3 km MB=4.8 MS=5.1
	LmH	B	03 20.7	D = 77.81 Az = 355 (NEIS)
				LmH B 18s 0.7/um M = 5.0
22.	eSn	A	03 22 16	D c. 4.5
	eSg	A	22 45	
22.	eP	A	08 33 33	Volcano Islands Region 23.36 N 142.09 E
				H = 08 20 27.8 h = 129 km MB = 5.2 (NEIS)
				D = 94.3
				PV A 1.4s 11.6nm M = 5.0
22.	eP	AB	09 21 25	Mindoro, Philippine Islands
	epP	A	22 04	13.79 N 120.71 E
	ePP	A	25 04	H = 09 08 33.3 h = 124.5 km MB = 5.2 (NEIS
				D = 91.2 h = 157 km
				PV A 1.5s 45.2nm M = 5.4
22.	LmH	B	12 59.3	Mindanao 6.61 N 123.7 E
	LmV	B	13 11.2	H = 12 01 01.3 h = 33 km (ISC)
				D = 98.6
				LmH B 17s 0.9/um M = 5.3
				LmV B 15 0.9/um 5.4

Day	Phase		h m s	Remarks
22.	ePn	A	15 25 05.5	Austria 46.35 N 13.04 E
	ePg	A	25 24	H = 15 23 56.7 h = 0 km
	eSn	A	25 56	D c. 4.40 Az = 348 (ISC)
	eSg	A	26 18	
22.	LmV	B	16 08.8	LmH B 20s 2.0/um
	LmH	B	08.9	LmV B 20 2.4/um
22.	+eP	AB	20 17 29	Northern China 40.03 N 106.33 E
	epP	A	17 38.5	H = 20 07 03.2 h = 29.1 km
	eS	B	25 55	MB = 5.6 MS = 5.7 (NEIS)
	LmH	B	42.9	D = 63.0 h = 36 km
	LmV	B	47.6	PV A 1.6s 76.9nm M = 5.5
				LmH B 18 5.4/um 5.8
				LmV B 17 5.2/um 5.8
22.	eP	A	21 56 50	Uzbek SSR 40.49 N 63.41 E
	e	A	56 54.5	H = 21 49 42.6 h = 33 km MB = 4.7 (NEIS)
				D = 37.0
				PV A 1.1s 14.1nm M = 4.8
23.	LmH	B	10 24.3	Lake Baykal Region 55.86 N 110.2 E
	LmV	B	26.4	H = 09 50 07.6 h = 33 km MB = 4.6 (ISC)
				D = 54.3
23.	eP	A	15 06 30	Philippine Islands Region
	LmV	C	55.0	5.87 N 127.05 E
				H = 14 52 40.9 h = 73 km MB = 5.2 (NEIS)
				D = 101.1
				PV A 1.5s 32.7nm M = 5.8
				LmV C 22 0.3/um
23.	ePn	A	15 27 54	D c. 4.5
	eSn	A	28 44	
	eSg	A	29 08	
23.	ePn	A	22 25 43	Northern Italy 45.79 N 12.45 E
	ePg	A	26 01	H = 22 24 35.5 h = 10 km (NEIS)

Day	Phase		h m s	Remarks
cont. 23.	eSn	A	22 26 32	D = 4.9
	eSg	A	26 56.5	
24.	eP	A	00 20 34.5	Burma 24.05 N 95.01 E
				H = 00 09 52.8 h = 163.7 km MB = 4.6 (NEIS)
				D = 67.7
24.	eP	A	20 55 08	Central Mid-Atlantic Ridge
	eS	C	21 03 25	0.84 N 28.45 W
	LmH	C	17.5	H = 20 45 02.9 h = 33 km MB = 5.0 (NEIS)
	LmV	B	19.5	D = 60.3
				PV A 1.4s 20.9nm M = 5.1
25.	e(Sn)	A	01 36 51	Austria 46.21 N 13.18 E
	eSg	A	37 16	H = 01 34 47.5 h = 0 km (ISC)
				D = 4.55
25.	eP	A	03 43 40	Mindanao, Philippine Islands
	ePP	A	47 52	6.80 N 123.80 E
	eS	C	55 00	H = 03 30 03.6 h = 45 km
	LmH	B	04 29.5	MB = 5.7 MS = 5.3 (NEIS)
	LmV	B	35.7	D = 98.5
				PV A 1.5s 30.2nm M = 5.6
				PPV A 1.8 33.8nm 5.5
				LmH B 18 1.5/um 5.5
				LmV B 16 1.6/um 5.6
25.	LmH	B	12 29.5	North-Eastern China 40.03 N 118.29 E
	LmV	B	35.5	H = 11 50 27.4 h = 41 km MB = 4.9 (ISC)
				D = 69.3
				LmH B 19s 0.9/um M = 5.0
				LmV B 16 0.7/um 5.0
25.	ePKP	A	12 33 11.5	Loyalty Islands Region 22.28 S 170.34 E
				H = 12 13 28.7 h = 21.6 km MB = 5.0 (NEIS)
				D = 152.0
				ePKPV A 1.2s 26.4nm
25.	LmH	C	13 11.0	LmH C 30s 1.3/um

Day	Phase		h m s	Remarks
25.	ePn	A	13 37 58	Austria 46.41 N 13.1 E
	ePg	A	38 49	H = 13 36 49.3 h = 0 km
	eSg	A	39 12	D c. 4.34 Az = 348 (ISC)
25.	ePn	A	14 42 00	Central Italy 42.90 N 13.30 E
	eSn	A	43 20	H = 14 39 53.7 h = 10 km (NEIS)
	eSg	A	44 30	D = 7.88
25.	ePn	A	20 07 22	Northern Italy 45.9 N 13.0 E
	ePg	A	07 40.5	H = 20 06 13 h = 0 km (ISC)
	eSn	A	08 14	D = 4.8
	eSg	A	08 38	
25.	LmH	B	22 10.2	LmH B 8s 0.35/um
	LmV	B	10.2	LmV B 8 0.5/um
25.	LmH	B	22 55.6	Easter Island Cordillera
	LmV	B	55.6	26.58 S 115.00 W
				H = 21 47 23.2 h = 33 km
				MB = 5.5 MS = 5.4 (NEIS)
				D = 133.1
				LmH B 20s 1.1/um M = 5.5
				LmV B 22 1.2/um 5.6
26.	eSn	A	01 29 02	Austria 46.38 N 13.3 E
	eSg	A	29 23	H = 01 27 04 h = 0 km (ISC)
				D = 4.35
26.	ePn	A	01 52 58.5	Austria 46.22 N 13.04 E
	ePg	A	53 18	H = 01 51 49.9 h = 10 km (NEIS)
	eSn	A	53 49	D = 4.5
	eSg	A	54 09	LmH B 5.5s 0.7/um M = 3.5
	LmH	B	54.5	LmV B 5 0.6/um
	LmV	B	54.9	
26.	iPn	A	05 31 59.4	Austria 46.30 N 13.16 E
	ePg	A	32 19	H = 05 30 50.8 h = 0 km
	iSn	A	32 49	D = 4.47 Az = 347 (ISC)
	iSg	A	33 14	

Day	Phase		h m s	Remarks
26.	iPn	A	07 25 48.7	Austria 46.12 N 13.13 E
	ePg	A	26 04	H = 07 24 40.5 h = 33 km (NEIS)
	eSn	A	26 38	D = 4.6
	eSg	A	27 02	
26.	ePn	A	07 34 48.5	Northern Italy 46.54 N 12.87 E
	ePg	A	35 05	H = 07 33 46.5 h = 33 km (NEIS)
	eSn	A	35 39.5	D = 4.2
	eSg	A	36 02	
26.	eP	A	08 10 17	North Atlantic Ridge 49.4 N 29.4 W
	LmV	C	19.0	H = 08 04 42.7 h = 33 km MB = 4.4
				D = 26.16 Az = 71 (ISC)
				PV A 1.6s 22.0nm
				LmV C 18 0.4/um M = 4.1
26.	iPn	A	14 53 29.5	Austria 46.28 N 13.00 E
	ePg	A	53 49.5	H = 14 52 21.8 h = 10 km MB = 3.5 (NEIS)
	eSn	A	54 21	D = 4.5
	iSg	A	54 43.5	PnV A 1.0s 31.5nm
26.	LmH	B	19 24.0	LmV B 18s 0.45/um
	LmV	B	24.0	
27.	ePKP	C	13 03 40	South of Kermadec Islands
	e	A	04 25	33.14 S 179.25 W
	LmV	C	14 12.2	H = 12 43 45.4 h = 43.5 km
	LmH	C	12.6	MB = 5.2 MS = 5.3 (NEIS)
				D = 169.1
				LmH C 22s 1.5/um M = 5.7
				LmV C 28 2.6/um 5.9
27.	eiPn	A	14 38 39	Austria 46.23 N 13.09 E
	ePg	A	38 57.5	H = 14 37 29.5 h = 10 km (NEIS)
	eSn	A	39 30.5	D = 4.5
	eiSg	A	39 54.5	PnV A 0.8s 65.4nm

Day	Phase		h m s	Remarks
27.	iPn	A	17 53 29.5	Northern Italy 44.12 N 12.85 E
	eSn	A	54 23	H = 17 52 04.1 h = 10 km (NEIS)
	eSg	A	54 44	D = 6.6
27.	ePn	A	21 19 44	Austria 46.27 N 13.05 E
	eSn	A	20 35	H = 21 18 35.1 h = 10 km (NEIS)
	eSg	A	21 00	D = 46.3
28.	ePn	A	13 26 25	Austria 46.42 N 13.5 E
	eSg	A	27 36	H = 13 25 16.2 h = 0 km
				D = 4.41 Az = 344 (ISC)
28.	ePKHKP	A	18 24 28	West of Macquarie Island
	LmV	B	19 41.2	59.45 S 149.69 E
	LmH	B	41.3	H = 18 04 24.4 h = 33 km
				MB = 5.0 MS = 5.0 (NEIS)
				D = 154.8
28.	LmH	B	23 57.0	North-Eastern China 39.88 N 118.78 E
	LmV	B	58.0	H = 23 13 02 h = 50 km MB = 4.7 (ISC)
				D = 69.6
				LmV B 16s 0.45/um M = 4.9
29.	eP	A	03 00 58	Nepal 29.82 N 81.39 E
				H = 02 51 27.0 h = 33 km MB = 5.0 (NEIS)
				D = 55.1
29.	+iP	A	03 06 03.0	Novaya Zemlya 73.40 N 54.82 E
	LmH	B	19.6	H = 02 59 57.4 h = 0 km
	LmV	B	21.7	MB = 5.8 MS = 4.5 (NEIS)
				D = 29.2
				Underground explosion (UPP)
				PV A 1.2s 85.5nm M = 5.5
				LmH B 10 0.35/um 4.3
				LmV B 8 0.6/um 4.8
29.	LmH	B	06 08.3	LmH B 16.5s 0.4/um
	LmV	B	08.4	LmV B 16 0.3/um

Day	Phase		h m s	Remarks
29.	eP	A	07 56 25.5	Tibet - India Border Region
				31.77 N 78.35 E
				H = 07 47 17.5 h = 29.3 km MB = 5.0
				D = 51.81 Az = 312 (NEIS)
				PV A 1.0s 15.7nm M = 4.9
29.	eP	AB	10 04 25	Cuba Region 19.01 N 80.75 W
	eS	C	14 15	H = 09 52 33.8 h = 33 km MB=5.2 MS=4.9
	LmH	B	37.7	D = 77.01 Az = 41 (NEIS)
	LmV	B	39.1	PV A 1.0s 15.8nm M = 5.0
				LmH B 17 0.8/um 5.1
				LmV B 18 1.0/um 5.2
29.	ePKHKP	A	15 07 34	Tonga Islands 21.14 S 174.46 W
				H = 14 47 44.5 h = 33 km MB = 4.9
				D = 150.17 Az = 352 (NEIS)
29.	ePKIKP	A	15 58 48	South of Fiji Islands 22.98 S 176.07 W
	iPKHKP	A	58 53	H = 15 39 01.0 h = 33 km MB=5.4 MS=4.9
	LmH	C	17 04.0	D = 151.74 Az = 350 (NEIS)
	LmV	C	04.0	
29.	eP	A	17 01 08	Near West Coast of Colombia
				5.92 N 77.38 W
				H = 16 48 32.8 h = 16.8 km MB = 5.1
				D = 84.83 Az = 40 (NEIS)
29.	eP	AB	21 16 08	Mindanao, Philippine Islands
	ePP	B	20 04	6.92 N 124.07 E
	eX	A	20 24	H = 21 02 32.7 h = 41.3 km MB=6.0 MS=5.4
	eS	B	27 40	D = 98.57 Az = 323 (NEIS)
	LmH	B	22 02.1	PV A 2.4s 110.4nm M = 6.0
	LmV	B	03.4	XV A 3.0 184.2nm
				LmH B 19 2.1/um 5.7
				LmV B 18 2.2/um 5.7
30.	eP	A	00 36 27	Ionian Sea 37.54 N 20.37 E
	e	AB	36 33	H = 00 33 02.0 h = 43.3 km MB=4.9 MS=4.9
	ePm	A	36 45	D = 14.52 Az = 337 (NEIS)

Day	Phase		h m s	Remarks
cont. 30.	eS	B	00 39 24	PV A 1.6s 27.5nm M = 4.5
	LmH	B	41.8	PmV A 1.5 75.4nm 4.8
	LmV	B	43.7	LmH B 17 10.2/um 5.1
				LmV B 12 3.8/um 5.0
30.	eP	A	17 53 05.5	Kurile Islands 46.73 N 152.93 E
				H = 17 41 15.8 h = 57.7 km MB = 4.8
				D = 77.42 Az = 336 (NEIS)
30.	ePKIKP	AB	23 54 08	Kermadec Islands 30.24 S 177.88 W
	ePKP2	B	54 43	H = 23 34 14.4 h = 32 km MB=5.7 MS=6.5
	ePP	B	58 24	D = 158.41 Az = 343 (NEIS)
	eSKSP	B	24 08 48	PKIKPV A 1.8s 74.3nm
	ePPS	B	12 00	PKP2V A 1.8 209.5nm
	eSS	B	18 28	LmH B 16.5 6.2/um M = 6.4
	eSSS	B	25 04	LmV B 18 10.7/um 6.7
	LmH	B	25 20.3	
	LmV	B	21.5	

Day	Phase		h m s	Remarks
1.	ePKIKP	A	03 53 39	South of Fiji Islands 22.44 S 178.06 W
	iPKHKP	A	53 46.5	H = 03 34 36.3 h = 368.9 km MB=4.9 (NEIS)
	ePKP2	A	53 56.5	D = 150.9
				PKIKPV A traces
				PKHKPV A 1.2s 32.5nm
				PKP2V A 1.2 32.5nm
1.	ePKIKP	A	07 32 51	Fiji Islands Region 19.72 S 177.62 W
	ePKHKP	A	32 54	H = 07 13 51.2 h = 384.3 km MB = 5.3
	ePKP2	A	32 57.5	D = 148.29 Az = 349 (NEIS)
	eX	A	34 25	PKHKPV A 1.5s 95.5nm
				XV A 3.0 184.0nm
1.	eP	A	10 29 01	Ascension Islands Region 7.80 S 13.81 W
				H = 10 18 41.1 h = 33 km MB = 4.6
				D = 62.24 Az = 18 (NEIS)
1.	eP	A	11 36 01	Kashmir - Sinkiang Border Region
				36.00 N 77.33 E
				H = 11 27 25.3 h = 84 km MB = 5.2 (NEIS)
				D = 48.4
				PV A 1.2s 12.2nm M = 4.7
1.	LmH	B	12 51.8	Ceram 3.49 S 130.93 E
	LmV	B	13 02.6	H = 11 47 06.4 h = 33 km MB = 5.4 (ISC)
				D = 110.9
				LmH B 20s 1.0/um M = 5.4
				LmV B 18 0.6/um 5.2
1.	eP	AB	17 53 18	Rumania 45.68 N 26.49 E
	LmH	B	57.5	H = 17 50 43.2 h = 145.9 km MB = 5.2
	LmV	B	58.5	D = 11.10 Az = 302 (NEIS)
				PV A 1.2s 142.2nm M = 5.5
				LmH B 8 0.5/um
				LmV B 10 0.55/um
1.	iPn	A	18 15 55.3	Northern Italy 46.60 N 12.85 E
	ePg	A	16 12	H = 18 14 53.4 h = 33 km
	eSn	A	16 47	D = 4.13 Az = 349 (NEIS)
	eiSg	A	17 09	

Day	Phase	h m s	Remarks
1.	LmV B	23 10.2	South Sandwich Islands Region
	LmH B	12.0	58.36 S 25.0 W
			H = 22 08 31 h = 28 km (ISC)
			D = 112.6
			LmV B 20s 0.35/um M = 5.0
2.	eP A	10 11 02	Turkey 39.53 N 40.02 E
	LmH B	21.0	H = 10 06 01.1 h = 40.3 km MB = 4.7
	LmV B	22.3	D = 22.79 Az = 309 (NEIS)
			PV A 1.9s 22.8nm M = 4.3
			LmH B 16 0.4/um 3.9
			LmV B 10 0.5/um 4.4
2.	eP A	12 49 01.5	Southern Greece 37.12 N 21.22 E
			H = 12 45 29.4 h = 67.7 km MB = 4.4
			D = 15.17 Az = 336 (NEIS)
			PV A 0.9s 23.3nm M = 4.4
2.	ePKIKP C	14 07 30	East of North Island, N. Z.
	e A	07 40.5	35.12 S 179.43 W
	ePP C	12 15	H = 13 47 30.4 h = 33.9 km MB=5.4 MS=5.5
	eSSS C	39 15	D = 162.53 Az = 336 (NEIS)
	LmH B	15 31.9	LmH B 18s 0.8/um M = 5.5
	LmV B	38.9	LmV B 18 1.2/um 5.8
2.	ePKP A	15 58 41	New Hebrides Islands Region
			19.55 S 173.38 E
			H = 15 39 02.0 h = 49.4 km MB = 4.7
			D = 145.77 Az = 339 (NEIS)
			PKPV A 1.2s 20.3nm
2.	ePKP2 A	18 58 30	Kermadec Islands 30.00 S 177.42 W
			H = 18 38 06.0 h = 65 km M = 4.7 (NEIS)
			D = 158.0
2.	ePKP2 A	22 14 55	South of Kermadec Islands
	LmV B	23 33.0	34.90 S 179.54 W
	LmH B	38.8	H = 21 54 21.3 h = 31.8 km MB = 5.1
			D = 162.1
			LmV B 20s 0.55/um M = 5.4

Day	Phase	h m s	Remarks
3.	eP A	02 52 14.5	Hindu Kush Region 36.16 N 69.46 E
	LmV B	03 14.8	H = 02 44 14.7 h = 50.4 km MB = 5.1
	LmH B	14.9	D = 43.34 Az = 308 (NEIS)
			LmH B 16s 0.4/um M = 4.4
			LmV B 16 0.4/um 4.5
3.	eSg A	05 27 50	Austria 47.07 N 11.91 E
			H = 05 25 44.9 h = 33 km
			D = 3.59 Az = 357 (NEIS)
3.	ePKIKP A	08 12 47	Solomon Islands 6.98 S 155.64 E
	LmH C	09 11.0	H = 07 53 48.0 h = 56 km MB = 5.5
	LmV C	11.0	D = 127.20 Az = 332 (NEIS)
			PKIKPV A 1.4s 25.6nm
3.	ePn A	17 50 58	Austria 46.22 N 13.20 E
	ePg A	51 17.5	H = 17 49 51.5 h = 33 km (NEIS)
	eSn A	51 47	D = 4.6
	eSg A	52 11.5	
4.	eP A	02 36 21.5	Southern Sumatra 5.27 S 102.65 E
			H = 02 23 00.6 h = 30 km MB=5.5 MS=5.1
			D = 94.69 Az = 320 (NEIS)
			traces
4.	ePKHKP A	07 10 17	Kermadec Islands 30.54 S 177.53 W
	ePKP2 A	10 45	H = 06 50 08.8 h = 33 km MB = 5.5 (NEIS)
			D = 158.8
			PKHKPV A traces
4.	ePKP A	14 07 06	Samoa Islands Region 16.07 S 172.95 W
	epPKP A	07 21	H = 13 47 30.8 h = 25.2 km MB = 4.9
			D = 145.32 Az = 355 (NEIS)
			h = 54 km
			PKPV A 1.2s 20.3nm
5.	eiPKP A	01 20 35	Tonga Islands 17.19 S 174.66 W
			H = 01 01 04.1 h = 104.0 km MB = 4.9
			D = 146.86 Az = 353 (NEIS)
			PKPV A 1.2s 26.2nm

Day	Phase		h m s	Remarks
5.	eP	A	06 36 15	Northwest of Malagasay Republic
				10.95 S 41.30 E
				H = 06 25 27.0 h = 33 km MB = 5.1
				D = 66.56 Az = 340 (NEIS)
5.	ePKHKP	A	14 03 34	South of Fiji Islands 25.22 S 179.71 E
	ePKP2	A	03 48	H = 13 44 33.7 h = 499.6 km MB = 5.0
				D = 153.0 Az = 343 (NEIS)
5.	ePKP2	A	16 18 02	Kermadec Islands 30.38 S 177.31 W
	eX	A	18 12	H = 15 57 27.4 h = 15 km MB = 5.5 (NEIS)
				D = 158.7
				PKP2V A traces
				XV A 1.5s 55.3nm
5.	ePKIKP	AB	18 21 16.5	New Britain Region 6.43 S 153.00 E
	ePP	AB	23 08	H = 18 02 15.4 h = 22.2 km MB=6.3 MS=6.0
	ePS	C	33 04	D = 125.46 Az = 331 (NEIS)
	ePPS	C	34 32	PKIKPV A 2.0s 136.8nm
	eSS	C	40 08	PPV A 2.0 273.5nm M = 6.4
	e	C	40 55	PPV B 8 2.5/um 6.7
	LmV	B	19 16.8	LmH B 19 3.3/um 6.0
	LmH	B	17.0	LmV B 20 2.7/um 5.9
6.	eP	A	01 12 59	Yellow Sea 35.30 N 124.30 E
	LmH	B	44.0	H = 01 01 11.1 h = 33 km MB=5.2 MS=5.2
	LmV	B	50.0	D = 75.95 Az = 323 (NEIS)
				PV A 1.8s 40.5nm M = 5.1
				LmH B 18 2.7/um 5.6
				LmV B 17.5 1.5/um 5.5
6.	eP	A	09 25 43.5	Ecuador 0.75 S 78.78 W
	LmH	C	52.5	H = 09 12 38.9 h = 33 km MB = 5.7
	LmV	C	57.4	D = 90.82 Az = 40 (NEIS)
				PV A 2.4s 110.5nm M = 5.8
6.	eP	A	13 50 55	Near East Coast of Honshu, Japan
	eipP	A	51 15	37.09 N 141.27 E
	eS	C	14 01 00	H = 13 38 42.1 h = 81 km MB = 5.6

Day	Phase		h m s	Remarks
cont. 6.	LmH	B	14 25.0	D = 82.06 Az = 330 (NEIS)
	LmV	B	33.0	h = 76 km
				PV A 1.7s 78.8nm M = 5.3
				LmH B 20 1.1/um
7.	ePKP2	A	07 30 35	Kermadec Islands Region 31.85 S 179.52 E
				H = 07 10 48.5 h = 433 km MB = 5.2 (NEIS)
				D = 159.4
				PKP2V A 1.6s 27.5nm
7.	eP	A	07 39 25	Ascension Island Region 7.38 S 13.15 W
				H = 07 29 08.8 h = 33 km MB = 5.1
				D = 61.64 Az = 18 (NEIS)
				PV A 1.3s 21.8nm M = 5.1
7.	eP	A	07 42 31	Ascension Island Region 7.28 S 13.00 W
				H = 07 32 15.2 h = 33 km MB = 4.4
				D = 61.50 Az = 18 (NEIS)
				PV A 1.2s 20.3nm M = 5.1
7.	eP	A	07 43 34	Ascension Island Region 7.54 S 13.31 W
				H = 07 33 16.3 h = 33 km MB = 4.9
				D = 61.84 Az = 18 (NEIS)
				PV A 1.2s 20.3nm M = 5.1
7.	eP	A	10 04 34	Ascension Island Region 7.62 S 13.36 W
				H = 09 54 14. h = 18 km MB = 5.1
				D = 61.93 Az = 18 (ISC)
				PV A 1.0s 23.6nm M = 5.3
7.	eP	A	10 13 49	Ascension Island Region 8.0 S 13.0 W
				H = 10 03 27 h = 20 km MB = 5.0
				D = 62.21 Az = 17 (ISC)
				PV A 1.0s 15.7nm
7.	LmH	B	12 12.6	Northeastern China 39.78 N 118.46 E
	LmV	B	18.9	H = 11 33 52.1 h = 33 km MB = 5.0 (NEIS)
				D = 69.5
				LmH B 20s 1.5/um M = 5.2
				LmV B 15 0.8/um 5.2

Day	Phase		h m s	Remarks
7.	eP	A	23 48 30	France 46.07 N 2.54 W
				H = 23 45 55.1 h = 10 km (CSEM)
				D = 10.50
8.	ePg	A	08 02 22	Northern Italy 45.64 N 9.78 E
	eSn	A	03 01.5	H = 08 00 43.1 h = 33 km MB = 4.9
	eSg	A	03 30.5	D = 5.16 Az = 13 (NEIS)
8.	eP	A	09 34 13	Komandorsy Islands Region
				55.07 N 164.31 E
				H = 09 22 48.9 h = 36 km MB = 4.9
				D = 72.22 Az = 342 (NEIS)
				traces
8.	eP	A	17 17 07	Turkey 38.48 N 40.58 E
	eS	C	21 23	H = 17 11 54.1 h = 23.3 km MB = 4.8
	LmV	B	29.1	D = 23.79 Az = 310 (NEIS)
	LmH	B	29.2	PV A 2.0s 51.3nm M = 4.7
				LmH B 16 0.5/um 3.6
				LmV B 16 0.6/um 3.8
8.	eP	AB	21 18 14	Luzon, Philippine Islands
	e	A	21 13	18.95 N 121.30 E
	ePP	A	21 39	H = 21 05 31.0 h = 57 km MB = 5.7
	eSKS	B	28 38	D = 87.37 Az = 323 (NEIS)
	ePS	B	29 40	PV A 1.7s 54.5nm M = 5.5
	eSS	B	34 36	PPV A 2.0 59.8nm 5.7
	LmH	B	22 03.8	LmH B 15 4.0/um 6.0
	LmV	B	03.9	LmV B 15 4.2/um 6.0
9.	ePg	A	00 37 26	France 44.63 N 6.82 E
	eSn	A	38 14.5	H = 00 35 10.4 h = 33 km
	eSg	A	39 05	D = 6.83 Az = 27 (NEIS)
9.	eP	A	03 04 32	Kurile Islands Region 45.20 N 153.45 E
				H = 02 52 26.4 h = 34.4 km MB = 5.1
				D = 78.97 Az = 336 (NEIS)

Day	Phase		h m s	Remarks
9.	eSn	A	03 43 09.5	Northern Italy 45.16 N 12.80 E
	eSg	A	43 34	H = 03 41 05.2 h = 33 km
				D = 5.54 Az = 352 (NEIS)
9.	eP	A	12 43 50	Costa Rica 10.84 N 85.76 W
	e	A	44 15	H = 12 31 15.8 h = 85.1 km MB = 5.3
	e	B	45 00	D = 86.34 Az = 39 (NEIS)
	eS	B	54 28	PV B 14s 0.4/um M = 5.2
	ePS	B	55 40	LmH B 16 2.0/um 5.6
	eSS	C	13 00 20	LmV B 17 2.1/um 5.6
	LmV	B	26.8	
	LmH	B	27.0	
9.	e	A	22 22 42	Celebes Sea 4.35 N 124.83 E
	ePP	A	26 32	H = 22 08 44.4 h = 35 km MB=5.5 MS=5.0
	LmH	B	23 08.5	D = 101.08 Az = 323 (NEIS)
	LmV	B	15.2	LmH B 19s 0.6/um M = 5.1
10.	eP	A	03 10 54	Kurile Islands 45.31 N 151.04 E
	LmH	B	48.8	H = 02 58 58.2 h = 37.7 km MB=5.2 MS=4.7
	LmV	B	49.0	D = 78.16 Az = 335 (NEIS)
				PV A 1.2s 20.3nm M = 5.0
10.	eP	A	14 18 32	Kurile Islands 43.09 N 147.81 E
				H = 14 06 28.4 h = 33 km MB = 4.9
				D = 79.15 Az = 333 (NEIS)
				PV A traces
10.	eP	A	14 44 03	Kurile Islands 43.30 N 147.71 E
	LmH	B	15 16.6	H = 14 31 59.9 h = 20.6 km MB=5.1 MS=5.1
	LmV	B	23.7	D = 78.92 Az = 333 (NEIS)
				PV A 1.5s 30.2nm M = 5.1
				LmH B 20.5 1.5/um 5.3
				LmV B 17 1.0/um 5.3
11.	eP	A	06 42 30.5	Northern Sumatra 3.37 N 96.31 E
	eX	A	42 36.5	H = 06 30 03.7 h = 52.2 km MB=5.4 MS=5.2
	ePP	A	45 46	D = 84.04 Az = 320 (NEIS)
	LmV	B	07 26.0	PV A 1.8s 74.4nm M = 5.4

Day	Phase		h m s	Remarks
cont. 11.	LmH	B	07 26.2	LmH B 19s 0.9/um M = 5.1
	LmV	B	18	0.6/um 5.0
11.	ePn	A	16 58 25.5	Northern Italy 46.79 N 12.50 E
	i	A	58 28	H = 16 57 26.7 h = 33 km
	ePg	A	58 42	D = 3.90 Az = 352 (NEIS)
	iSn	A	59 17	
	iSg	A	59 38	
11.	eiPKP	A	21 21 46.5	Fiji Islands Region 17.92 S 177.35 W
				H = 21 02 49.1 h = 395.1 km MB = 5.3
				D = 146.57 Az = 350 (NEIS)
				PKPV A 1.2s 81.4nm
12.	e(PKIKP)	A	01 00(08)	Solomon Islands 10.45 S 161.30 E
	epPKIKP	A	00 30	H = 00 40 52.9 h = 105.6 km MB = 6.0
	eSKKS	C	19 55	D = 132.81 Az = 334 (NEIS)
	e	C	20 35	LmH C 32s 1.0/um
	LmH	C	01 46.0	LmV C 30 1.1/um
	LmV	C	52.9	
12.	eP	A	04 29 13	Sicily 37.81 N 13.01 E
				H = 04 26 08.7 h = 57 km
				D = 12.87 Az = 356 (ISC)
12.	eP	A	04 37 43	South of Honshu, Japan 31.35 N 141.71 E
				H = 04 24 54.7 h = 29 km MB = 5.1
				D = 87.23 Az = 331 (NEIS)
12.	ePn	A	10 24 18.5	D c. 4.8
	ePg	A	24 41	
	eSn	A	25 11.5	
	e(Sg)	A	25 30	
12.	eP	A	15 30 43.5	Burma - China Border Region
	eS	C	39 50	24.48 N 98.81 E
	eSS	C	47 40	H = 15 19 33.5 h = 33 km MB = 5.0
	LmH	B	16 01.3	D = 69.74 Az = 317 (NEIS)

Day	Phase		h m s	Remarks
cont. 12.	LmV	B	16 04.6	LmH B 19s 1.9/um M = 5.4
				LmV B 12 0.8/um 5.2
12.	eSg	A	16 28 08	Northern Italy 45.79 N 9.4 E
				H = 16 25 31 h = 0 km
				D = 5.08 Az = 16 (ISC)
13.	iPn	A	02 49 46.8	Austria 46.32 N 13.07 E
	iPg	A	50 01	H = 02 48 40.6 h = 33 km
	eiSn	A	50 35	D = 4.44 Az = 348 (NEIS)
	eiSg	A	50 59.5	PnV A 0.6s 172.4nm
				LmH B 10 2.0/um M = 3.7
				LmV B 8 3.0/um
13.	ePn	A	07 40 54.5	Northern Italy 46.72 N 12.92 E
	ePg	A	41 14	H = 07 39 53.0 h = 33 km
	eSn	A	41 46.5	D = 4.02 Az = 348 (NEIS)
	iSg	A	42 08	PnV A 0.8s 23.1nm
13.	LmH	B	13 09.5	LmH B 17.5s 0.8/um
	LmV	B	15.7	LmV B 14 0.5/um
13.	ePKP2	A	22 28 42	Tonga Islands 21.62 S 174.30 W
				H = 22 08 46.2 h = 60.5 km
				D = 150.66 Az = 352 (NEIS)
14.	eP	A	03 29 10	Mongolia 45.24 N 93.94 E
				H = 03 19 53.4 h = 33 km MB = 4.4
				D = 52.71 Az = 308 (NEIS)
				traces
14.	LmH	B	10 14.9	LmH B 21s 1.7/um
	LmV	B	15.8	LmV B 20 1.6/um
15.	iPn	A	02 29 42	Northern Italy 46.32 N 12.93 E
	iSn	A	30 32	H = 02 28 36.6 h = 33 km
	iSg	A	30 55.5	D = 4.42 Az = 349 (NEIS)

Day	Phase		h m s	Remarks
15.	e	A	10 59 37	Romania 47.21 N 25.75 E H = 10 54 50.1 h = 10 km (CSEM) D = 9.9
15.	eP	A	17 00 30	Northeast of Taiwan 26.84 N 125.64 E H = 16 47 57.9 h = 39 km MB = 5.1 MS = 5.3 (NEIS) D = 83.4 PV A 1.6s 27.5nm M = 5.0 LmH C 24.5 14.6/um 6.3 LmV C 16 4.7/um 6.0
	LmH	C	33.4	
	LmV	C	41.4	
15.	eP	A	23 10 32	Iran 30.04 N 51.97 E H = 23 03 26.1 h = 8.2 km MB = 5.1 D = 36.41 Az = 316 (NEIS) LmH B 18s 1.6/um M = 4.8 LmV B 17 1.3/um 4.9
	LmV	B	28.7	
	LmH	B	28.8	
16.	eP	A	01 19 33	Volcano Islands Region 23.95 N 141.43 E H = 01 06 29.0 h = 112 km MB = 4.9 D = 93.53 Az = 331 (NEIS)
16.	LmH	C	07 54.5	Burma - China Border Region 21.38 N 99.73 E H = 07 12 24.4 h = 33 km MB = 4.8 D = 72.60 Az = 318 (NEIS) LmH C 20s 0.9/um M = 5.1
	LmV	C	56.0	
16.	e(Sg)	A	13 28 55	Austria 46.22 N 13.14 E H = 13 26 42.6 h = 10 km D = 4.54 Az = 348 (NEIS)
16.	ePKP	A	13 50 53	Fiji Islands Region 20.34 S 178.37 W H = 13 32 11.8 h = 580.3 km MB = 4.9 D = 148.74 Az = 348 (NEIS)
16.	eSg	A	22 05 57	Northern Italy 45.55 N 9.85 E H = 22 03 03.9 h = 10 km (ISC) D = 5.25

Day	Phase		h m s	Remarks
16.	eP	A	23 35 02	Tibet 32.78 N 94.42 E H = 23 24 49.6 h = 33 km MB=4.7 MS=4.4 D = 61.14 Az = 314 (NEIS) PV A 1.6s 16.5nm M = 4.9 LmH B 16 0.4/um 4.6 LmV B 16 0.45/um 4.8
	LmH	B	24 02.5	
	LmV	B	06.5	
17.	eP	A	18 23 56.5	Kurile Islands 48.19 N 154.34 E H = 18 12 09.0 h = 33 km MB = 4.5 D = 76.46 Az = 337 (NEIS)
17.	iPn	A	20 20 54.8	Austria 46.28 N 13.23 E H = 20 19 45.1 h = 10 km D = 4.50 Az = 347 (NEIS)
	eSg	A	22 10	
17.	ePn	A	21 03 12	D c. 4.5
	eSg	A	04 28	
18.	eP	A	00 10 49	Central Mid - Atlantic Ridge 8.78 N 39.44 W H = 00 00 48.5 h = 33 km MB = 4.7 D = 59.17 Az = 35 (NEIS) LmH B 16.5s 0.6/um M = 5.0 LmV B 20 0.7/um 4.8
	LmV	B	30.8	
	LmH	B	35.8	
18.	eP	A	00 47 02	Central Alaska 63.29 N 150.74 W H = 00 36 31.6 h = 126.5 km MB = 4.9 D = 65.56 Az = 12 (NEIS)
18.	ePKP2	A	01 12 35	South of Kermadec Islands 33.14 S 178.69 W H = 00 51 55.0 h = 33 km MB = 5.7 (NEIS) D = 161.0 LmH C 20s 0.6/um M = 5.3 LmV C 20 0.7/um 5.5
	LmH	C	02 28.0	
	LmV	C	28.2	

Day	Phase		h m s	Remarks
18.	LmH	C	07 14.0	Gulf of California 29.7 N 113.43 W
	LmV	C	18.6	H = 06 26 32 h = 45 km MB = 4.6 (ISC)
				D = 86.4
				LmH C 22.5s 1.0/um M = 5.2
				LmV C 20 0.9/um 5.2
18.	eP	A	07 30 00	Off East Coast of Honshu, Japan
				33.96 N 141.48 E
				H = 07 17 28.1 h = 38.9 km MB = 4.9 (NEIS)
				D = 84.8
18.	eP	A	10 27 17	Iran 30.08 N 52.00 E
	LmH	B	41.7	H = 10 20 12.0 h = 20.5 km MB = 5.1
	LmV	B	45.5	D = 36.40 Az = 316 (NEIS)
				LmH B 20s 1.2/um M = 4.7
				LmV B 18 1.0/um 4.7
18.	iPg	A	20 44 39.6	D c. 1.1
	iSg	A	44 54.6	
18.	ePKHKP	A	20 46 45	Fiji Islands Region 21.32 S 178.70 W
	ePKP2	A	46 52	H = 20 27 52.1 h = 498.4 km MB = 4.8
				D = 149.63 Az = 347 (NEIS)
19.	ePn	A	08 32 38.5	Northern Italy 46.57 N 12.85 E
	ePg	A	33 00.5	H = 08 31 36.2 h = 33 km
	eSn	A	33 29.5	D = 4.16 Az = 349 (NEIS)
	eSg	A	33 52.5	
19.	ePKP	A	13 14 05.5	Fiji Islands Region 18.17 S 177.76 W
	epPKP	A	16 37.5	H = 12 55 29.9 h = 603.6 km MB = 5.5
				D = 146.75 Az = 349 (NEIS)
				h = 700 km
				PKPV A 1.5s 50.3nm
				pPKPV A 1.6 33.0nm
19.	epP	A	17 54 28.5	South of Honshu, Japan 31.33 N 141.18 E
	ePP	A	57 31	H = 17 41 26.0 h = 69.4 km MB = 5.4

Day	Phase		h m s	Remarks
cont. 19.	LmH	C	18 29.0	D = 87.1
	LmV	C	33.0	LmH C 24s 0.5/um
				LmV C 25 0.45/um
19.	iPn	A	22 43 53.9	D c. 4.5
	eSn	A	54 43	
	eSg	A	55 09	
20.	eP	A	08 06 03	Novaya Zemlya 73.42 N 54.57 E
				H = 07 59 57.7 h = 0 km MB = 5.1
				D = 29.25 Az = 243 (NEIS)
				Underground explosion (UPP)
20.	epP	A	10 45 39.5	Tadzhik-Sinkiang Border Region
				38.69 N 73.49 E
				H = 10 37 12.3 h = 110 km MB = 5.0 (NEIS)
				D = 44.4
20.	eP	A	11 53 01	Kodiak Island Region 56.22 N 153.18 W
				H = 11 41 32.1 h = 22.2 km MB = 5.0
				D = 72.75 Az = 10 (NEIS)
20.	LmH	B	13 27.8	Gulf of California 29.6 N 113.50 W
	LmV	B	33.3	H = 12 38 53 h = 33 km (ISC)
				D = 86.5
				LmH B 18s 0.6/um M = 5.0
				LmV B 14 0.9/um 5.4
20.	ePKP	A	18 50 41.5	Loyalty Islands 20.03 S 168.79 E
				H = 18 31 07.9 h = 23.9 km MB = 5.0
				D = 144.52 Az = 335 (NEIS)
				PKPV A 1.1s 20.2nm
21.	eP	A	12 52 21.5	Dodecanese Islands 35.91 N 26.98 E
	e	A	52 35.5	H = 12 48 11.8 h = 98.8 km MB = 4.8
				D = 18.44 Az = 328 (NEIS)
				PV A 1.4s 74.5nm M = 4.8

Day	Phase		h m s	Remarks
21.	eiP	A	15 06 29	Fox Islands, Aleutian Is. 52.23 N 169.39 W
	e	A	06 39	H = 14 54 35.6 h = 36 km MB = 5.4
				D = 77.50 Az = 359 (NEIS)
				PV A 1.4s 51.2nm M = 5.4
21.	eP	A	15 25 12	Fox Islands, Aleutian Is.
				52.33 N 169.37 W
				H = 15 13 18.7 h = 33 km MB = 4.8
				D = 77.39 Az = 359 (NEIS)
22.	e(pP)	A	04 17 20	Near Coast of Nicaragua
				12.55 N 87.85 W
				H = 04 04 24.1 h = 59 km MB = 4.9 (NEIS)
				D = 86.3
22.	eP	A	11 26 18	Southern Italy 39.70 N 18.81 E
	e	A	26 39	H = 11 23 25.8 h = 32.3 km MB = 4.6
	LmH	B	30.6	D = 12.06 Az = 338 (NEIS)
	LmV	B	31.8	LmH B 12s 2.5/um M = 4.4
				LmV B 10 2.0/um
22.	ePKHKP	A	16 38 50	South of Fiji 25.93 S 176.89 W
				H = 16 19 01.7 h = 112 km MB = 5.2
				D = 154.47 Az = 347 (ISC)
22.	ePKP2	A	16 51 41	Kermadec Islands Region 29.7 S 179.2 W
				H = 16 31 49.7 h = 328 km MB = 4.9 (NEIS)
				D = 157.7
22.	-iP	A	18 46 54.3	Kodiak Island Region 56.14 N 153.27 W
	ei	A	47 02	H = 18 35 25.9 h = 26 km
	LmV	C	19 25.2	MB = 5.5 MS = 4.8 (NEIS)
	LmH	C	27.8	D = 72.9
				PV A 1.5s 55.3nm M = 5.3
				LmH C 16 1.1/um 5.2
				LmV C 17 1.2/um 5.3

Day	Phase		h m s	Remarks
23.	eP	A	05 06 22	Mediterranean Sea 34.64 N 13.86 E
	e	A	06 35	H = 05 02 30.6 h = 33 km
				D = 16.18
				PV A traces
23.	eP	A	11 32 44	Crete 34.02 N 25.03 E
				H = 11 28 13.1 h = 43.5 km
				D = 19.30 Az = 333 (NEIS)
				traces
23.	eP	A	16 12 26	New Ireland Region 4.52 S 153.44 E
	e	A	12 54	H = 15 53 38.5 h = 105.3 km MB = 5.5
				D = 124.01 Az = 332 (NEIS)
				PV A traces
23.	eP	A	20 09 08.5	Ascension Island Region 5.71 S 11.27 W
				H = 19 59 08.6 h = 46.1 km MB = 5.0
				D = 59.51 Az = 17 (NEIS)
				PV A 1.2s 28.5nm M = 5.3
24.	eP	A	08 47 26	Kodiak Island Region 58.13 N 153.28 W
				H = 08 36 12.7 h = 58.7 km MB = 5.0
				D = 70.88 Az = 10 (NEIS)
24.	e	A	10 09 35	Czechoslovakia 49.43 N 16.20 E
	eSg	A	10 17	H = 10 08 13.6 h = 33 km
				D = 3.20 Az = 294 (NEIS)
24.	eP	A	16 28 39.5	Southern Iran 27.58 N 56.71 E
				H = 16 20 59.4 h = 48.1 km MB = 5.1
				D = 41.06 Az = 317 (NEIS)
24.	eP	A	17 30 34	Central Alaska 62.65 N 149.14 W
	epP	A	30 51	H = 17 19 53.7 h = 75.1 km MB = 4.9
				D = 66.03 Az = 13 (NEIS)
				h = 68 km

Day	Phase	h m s	Remarks
24.	ePn A	20 34 43	Belgium 50.38 N 3.96 E
	ePg A	35 02.5	H = 20 33 29.1 h = 33 km MB = 5.5
	e A	35 28	D = 4.89 Az = 84 (NEIS)
	eSg A	36 05	PnV traces
25.	ePKP A	02 43 48	Tonga Islands 17.29 S 174.90 W
			H = 02 24 28.1 h = 188.2 km MB = 4.6
			D = 146.32 Az = 353 (NEIS)
25.	ePKP A	02 58 17	Fiji Islands Region 16.98 S 177.40 W
			H = 02 39 29.9 h = 570 km MB = 5.0 (NEIS)
			D = 145.7
25.	ePn A	08 42 21	European USSR 59.16 N 23.73 E
	eSn A	44 20	H = 08 39 46.4 h = 33 km MB = 4.5
	LmH C	46.1	D = 11.00 Az = 224 (NEIS)
	LmV C	47.0	PnV A 1.1s 36.3nm M = 5.5
			LmH C 16 0.9/um 3.8
25.	eP A	11 22 14	Kodiak Island Region 56.20 N 153.44 W
			H = 11 10 45.3 h = 33 km MB=4.8 MS=4.3
			D = 72.81 Az = 10 (NEIS)
			traces
25.	eP A	11 35 32	Bering Sea 57.17 N 166.22 W
			H = 11 24 07.2 h = 33 km MB = 4.5
			D = 72.53 Az = 1 (NEIS)
			PV A 1.1s 12.1nm M = 4.7
26.	e A	05 47 02	Albania 41.69 N 19.85 E
			H = 05 44 08.7 h = 33 km MB = 4.6
			D = 10.61 Az = 330 (NEIS)
26.	ePn A	06 03 57.5	Northern Italy 46.01 N 12.78 E
	eSn A	04 48	H = 06 02 47.0 h = 33 km
	eSg A	05 13	D = 4.70 Az = 351 (NEIS)

Day	Phase	h m s	Remarks
26.	eP A	06 11 36	Kurile Islands 46.06 N 150.82 E
			H = 05 59 53.0 h = 120 km MB = 5.3
			D = 77.42 Az = 335 (NEIS)
			PV A 2.1s 86.2nm M = 5.2
26.	eP AB	13 05 10	Mindanao, Philippine Islands
	ePP B	09 20	6.24 N 126.30 E
	eScS B	15 40	H = 12 51 29.7 h = 84.5 km MB = 5.8
	eSKKS B	16 12	D = 100.43 Az = 324 (NEIS)
	eS B	16 36	LmH B 18.5s 2.3/um M = 5.7
	ePPS B	19 00	LmV B 18.5 2.9/um 5.8
	ePKKP A	21 08	
	LmH B	49.0	
	LmV B	55.6	
27.	ePn A	04 26 52	D c. 4.5
	ePg A	27 15	
	eSn A	27 43	
	eSg A	28 06	
27.	LmH B	10 22.1	LmH B 13s 1.1/um
	LmV B	23.4	LmV B 12 0.8/um
28.	ePn A	06 17 00	Austria 46.35 N 13.58 E
	ePg A	17 19.5	H = 06 15 50.7 h = 10 km
	eSn A	17 51	D = 4.50 Az = 344 (NEIS)
	eSg A	18 14	
28.	eP A	20 49 03	Kurile Islands 48.56 N 153.19 E
			H = 20 37 31.6 h = 140.2 km MB = 5.2
			D = 75.81 Az = 336 (NEIS)
			PV A 1.0s 31.5nm M = 5.0
29.	eP diff ABC	03 06 08	West Irian 4.52 S 139.92 E
	ePKIKP A	09 52	H = 02 51 07.6 h = 33 km MB=6.1 MS=7.1
	ePP BC	11 00	D = 116.98 Az = 326 (NEIS)
	ePKKP A	20 23	PPV B 10s 10.2/um M = 7.5
	ePS B	20 40	LmH B 18 45.9/um 7.2

Day	Phase		h m s	Remarks
cont.				
29.	eSS	B	03 27 15	LmV B 19s 75.5/um M = 7.3
	LmH	B	04 05.0	
	LmV	B	05.2	
29.	ePKIKP	A	04 14 11	West Irian 4.73 S 139.72 E
				H = 03 55 23.8 h = 24.3 km MB = 5.4
				D = 117.05 Az = 326 (NEIS)
29.	LmH	B	07 17.6	West Irian 4.66 S 139.80 E
	LmV	B	24.6	H = 06 39 04.0 h = 36 km MB = 4.7 (ISC)
				D = 117.1
29.	LmH	B	10 54.8	Galapagos Islands Region 2.78 N 95.30 W
	LmV	B	55.8	H = 09 50 40.0 h = 33 km MB = 4.9 (ISC)
				D = 98.5
29.	LmV	B	17 16.5	LmH B 20s 0.4/um
	LmH	B	16.7	LmV B 18 0.4/um
29.	eSg	A	21 44 22.5	Austria 47.41 N 10.29 E
				H = 21 42 32.0 h = 10 km (CSEM)
				D = 3.35
30.	eP1	A	09 37 13	Northern Sumatra 3.54 N 96.28 E
	eP2	AB	37 17	H = 09 24 40.1 h = 13.8 km MB=5.5 MS=5.6
	eS	B	47 45	D = 83.89 Az = 320 (NEIS)
	LmV	B	10 20.9	P2V A 1.6s 71.4nm M = 5.6
	LmH	B	21.0	LmH B 17.5 1.3/um 5.4
				LmV B 18 1.2/um 5.3
30.	ePn	A	12 29 54	Austria 46.26 N 13.25 E
	ePg	A	30 13	H = 12 28 44.6 h = 10 km
	eSn	A	30 44	D = 4.52 Az = 347 (NEIS)
	iSg	A	31 11	
30.	eP	A	16 13 43	Andaman Islands Region 12.34 N 93.62 E
				H = 16 02 10.0 h = 118.7 km MB = 4.7
				D = 75.51 Az = 319 (NEIS)

Day	Phase		h m s	Remarks
31.	eP	A	09 03 05	Greece 38.12 N 22.48 E
	LmV	B	09.6	H = 08 59 35.6 h = 29 km MB = 4.3 (NEIS)
	LmH	B	09.7	D = 14.77
				LmH B 17s 0.4/um M = 3.6
				LmV B 16 0.45/um 3.9
31.	ePKP	A	10 34 59	New Hebrides Islands 19.11 S 169.14 E
				H = 10 15 44.5 h = 160.1 km MB = 4.9
				D = 143.83 Az = 336 (NEIS)
31.	eP	A	12 41 58	Hokkaido, Japan Region 42.19 N 142.98 E
				H = 12 30 02.9 h = 62 km MB = 5.1 (NEIS)
				D = 78.2
31.	eP	A	19 34 22	Northeast of Taiwan 25.59 N 124.42 E
				H = 19 22 07.3 h = 146 km MB = 5.2 (NEIS)
				D = 83.8
				PV A 2.0s 59.9nm M = 5.1
31.	LmH	B	19 57.8	Burma 26.20 N 96.87 E
	LmV	B	59.4	H = 18 36 23.7 h = 33 km MB = 4.7 (ISC)
				D = 63.7
				LmH B 23s 2.4/um M = 5.3
				LmV B 20 2.0/um 5.4
31.	iPg	A	23 36 11.5	D c. 0.8
	eiSg	A	36 23	

Day	Phase		h m s	Remarks
1.	ePP	A	07 12 35	New Britain Region 6.05 S 149.55 E
	ePPS	C	23 08	H = 06 53 00.3 h = 52.9 km
	e	C	30 36	MB = 5.5 MS = 5.8 (NEIS)
	LmV	C	08 02.4	D = 112.9
	LmH	C	05.5	LmH C 23.5s 4.2/um M = 6.0
				LmV C 26 5.2/um 6.0
2.	eP	AC	07 26 53	Mid - Indian Rise 29.35 S 77.66 E
	ePP	C	31 00	H = 07 13 15.7 h = 33 km MB=5.8 MS=6.5
	eSKS	C	37 25	D = 98.65 Az = 324 (NEIS)
	iPs	C	39 55	PV A 2.2s 109.1nm M = 6.0
	ePPS	C	40 35	LmH B 16 3.1/um 5.9
	eSS	C	45 00	LmV B 16 4.3/um 6.1
	eSSS	C	49 00	
	LmH	B	08 26.3	
	LmV	B	27.5	
2.	eP	A	15 05 29	Lake Baikal Region 56.17 N 111.57 E
				H = 14 56 01.8 h = 33 km MB = 5.1
				D = 54.71 Az = 310 (NEIS)
				PV A 1.3s 30.6nm M = 5.2
2.	+iP	A	19 41 34.5	Northeast of Taiwan 26.70 N 125.22 E
	ePP	A	44 49	H = 19 29 30.0 h = 217.9 km MB = 5.5
				D = 83.30 Az = 324 (NEIS)
				PV A 2.0s 376.0nm M = 5.8
3.	e	A	10 00 43.5	United Kingdom 53.62 N 2.59 W
	eSn	A	02 05.5	H = 09 58 08.2 h = 14.8 km
	eSg	A	03 15	D = 9.23 Az = 103 (NEIS)
3.	eP	A	10 07 02.5	Northern Sumatra 4.14 N 95.14 E
	LmH	C	50.5	H = 09 54 38.2 h = 19.9 km MB=5.5 MS=5.2
	LmV	C	52.4	D = 82.71 Az = 320 (NEIS)
				PV A 1.7s 78.7nm M = 5.6
4.	LmH	B	11 33.5	Southern California 33.08 N 115.60 W
				H = 10 41 37.8 h = 6 km MB=4.6 MS=5.3
				D = 84.51 Az = 31 (NEIS)

Day	Phase		h m s	Remarks
cont. 4.	LmV	B	11 33.5	LmV B 16s 1.5/um M = 5.5
				LmV B 16 1.8/um 5.6
4.	ePg	A	14 56 10	D c. 1.5
	iSg	A	56 31.5	
4.	ePKP2	A	17 03 30	Fiji Islands Region 21.92 S 179.25 W
	epPKP2	A	05 40	H = 16 44 36.3 h = 59[illegible] km MB = 5.3
				D = 150.08 Az = 346 (NEIS)
4.	ePKIKP	A	17 25 36	Fiji Islands Region 21.51 S 178.25 W
	eiPKHKP	A	25 41	H = 17 06 42.2 h = 460 km MB = 5.1
	ePKP2	A	25 52	D = 149.9 Az = 347 (NEIS)
				PKHKPV A 1.3s 39.3nm
4.	ePn	A	20 53 22.5	Poland (CLL)
	iSg	A	54 03.5	D c. 2.4
5.	+iP	A	04 09 08.5	Central Siberia 61.53 N 112.71 E
	e	A	09 25	H = 03 59 56.7 h = 0 km MB = 5.3
				D = 51.82 Az = 307 (NEIS)
				PV A 1.0s 118.0nm M = 5.8
5.	eP	A	06 41 58	Kurile Islands 44.31 N 148.54 E
				H = 06 29 59.9 h = 36.4 km MB = 5.0
				D = 78.30 Az = 334 (NEIS)
5.	LmH	C	09 19.3	LmH C 22s 0.5/um
	LmV	C	19.3	LmV C 22 0.6/um
6.	eP	A	07 32 57	North of Svalbard 85.82 N 27.02 E
				H = 07 25 58.5 h = 33 km MB = 4.5
				D = 35.50 Az = 197 (NEIS)
6.	eP	A	08 09 28	Honshu, Japan 35.26 N 138.45 E
	ePP	A	12 39	H = 07 57 24.7 h = 176 km MB = 5.0
				D = 82.48 Az = 329 (NEIS)
				PV A 1.8s 40.5nm M = 4.9

Day	Phase		h m s	Remarks
6.	ePn	A	10 37 35	Northern Italy 46.0 N 12.1 E
	ePg	A	37 56	H = 10 36 30 h = 33 km
	eSn	A	38 27	D = 4.73 Az = 351 (ISC)
	eSg	A	38 42.5	
6.	eP	A	15 12 33	Kurile Islands 50.01 N 156.95 E
				H = 15 00 51.6 h = 33 km MB = 5.1
				D = 75.45 Az = 338 (NEIS)
6.	-iP	AB	18 15 12	Szechwan Province, China 27.61 N 101.05 E
	eS	C	24 15	H = 18 04 08.9 h = 33 km MB=5.8 MS=6.5
	eSS	C	28 40	D = 68.84 Az = 317 (NEIS)
	eSSS	C	32 00	PV A 1.9s 334.0nm M = 6.1
	eP'P'	A	43 31	PV B 7 1.8/um 6.2
	LmH	B	46.0	SH B 14 4.0/um 6.4
	LmV	B	47.5	P'P'V A 2.2 120.0nm
				LmH B 18.5 46.0/um 6.8
				LmV B 18 27.8/um 6.6
6.	eP	A	19 01 16	Szechwan Province, China 27.44 N 101.10 E
				H = 18 50 11.7 h = 33 km MB=5.1 MS=5.1
				D = 68.99 Az = 317 (NEIS)
				PV A 1.6s 38.5nm M = 5.2
6.	eP	A	21 00 00	Southern Italy 39.78 N 18.88 E
				H = 20 57 08.0 h = 33 km MB = 4.7
				D = 12.0 Az = 337 (NEIS)
				traces
7.	ePKIKP	A	00 52 22.5	Fiji Islands Region 20.82 S 178.43 W
	iPKHKP	A	52 27.5	H = 00 33 43.7 h = 582 km MB = 5.3
	iPKP2	A	52 34.5	D = 149.20 Az = 347 (NEIS)
				PKHKPV A 1.7s 152.0nm
				PKP2V A 1.3 39.3nm
7.	eP	A	02 08 48	Szechwan Province, China 27.51 N 101.12 E
				H = 01 57 43.1 h = 33 km MB = 5.1
				D = 68.95 Az = 317 (NEIS)

Day	Phase		h m s	Remarks
7.	eP	AC	04 08 13	Iran 33.80 N 59.16 E
	iPP	C	09 44	H = 04 00 51.6 h = 13.3 km MB=5.6 MS=6.2
	eS	C	14 10	D = 38.29 Az = 311 (NEIS)
	eSS	C	16 50	PV A 1.4s 154.0nm M = 5.6
	LmV	B	26.7	PV B 5 1.7/um 6.1
	LmH	B	28.6	SH B 14 4.3/um 6.1
				LmH B 14.5 37.4/um 6.3
				LmV B 15 20.8/um 6.2
7.	eP	A	05 00 42	Off East Coast of Kamchatka
				52.81 N 159.28 E
				H = 04 49 10.6 h = 33 km MB = 4.8
				D = 73.37 Az = 339 (NEIS)
				traces
7.	eP	A	11 14 18	Western Iran 33.24 N 47.96 E
				H = 11 07 57.2 h = 50.8 km MB = 5.5
				D = 31.74 Az = 314 (NEIS)
				PV A 1.5s 30.2nm M = 4.9
7.	eP	AB	17 22 40.5	Mindanao, Philippine Islands
	ePP	B	26 44	8.48 N 126.38 E
	eSKS	B	33 32	H = 17 09 06.1 h = 60.1 km MB=6.0 MS=6.8
	ePPS	B	36 31	D = 98.67 Az = 324 (NEIS)
	eSS	C	41 20	PV A 2.5s 353.3nm M = 6.5
	LmH	B	18 02.7	PV B 20 4.2/um 6.6
	LmV	B	10.6	LmH B 23.5 33.2/um 6.8
				LmV B 20 31.4/um 6.8
7.	eP	A	21 02 50.5	Mindanao, Philippine Islands
	ePP	A	06 53	6.93 N 123.88 E
	LmH	B	49.3	H = 20 49 13.3 h = 29.5 km MB=5.9 MS=5.8
	LmV	B	49.4	D = 98.45 Az = 323 (NEIS)
				PV A 1.5s 40.2nm M = 5.7
				LmH B 20 1.8/um 5.6
				LmV B 18 1.5/um 5.5
8.	+iP	A	08 31 42.5	Near East Coast of Honshu, Japan
	eX	AB	31 53	38.09 N 142.24 E

Day	Phase		h m s	Remarks
cont. 8.	ePP	C	08 34 45	H = 08 19 27.1 h = 38.1 km MB=5.9 MS=6.0
	eS	C	41 50	D = 81.57 Az = 331 (NEIS)
	eSS	C	47 30	PV A 1.6s 164.8nm M = 5.8
	LmH	B	09 11.0	PV B 8 3.3/um 6.4
	LmV	B	11.0	XV A 2.3 633.4nm
				LmH B 18 16.0/um 6.4
				LmV B 16 20.3/um 6.4
8.	eP	A	09 18 55	Sea of Okhotsk 47.40 N 145.92 E
	epP	A	20 27	H = 09 07 56.7 h = 402.0 km MB = 5.0
				D = 74.71 Az = 332 (NEIS)
				h = 426 km
				PV A 2.0s 170.9nm M = 5.4
8.	eP	A	11 02 07	Mindanao, Philippine Islands
	e(pP)	A	02 57	8.86 N 125.93 E
				H = 10 48 44.5 h = 141.6 km MB = 5.3
				D = 98.11 Az = 324 (NEIS)
				PV A 1.7s 30.3nm M = 5.0
8.	ePKIKP	A	18 49 16	Kermadec Islands 29.66 S 177.33 W
	ePKP2	A	49 51.5	H = 18 29 24.0 h = 33 km MB=5.4 MS=4.7
	LmH	B	20 12.0	D = 157.98 Az = 345 (NEIS)
	LmV	B	12.0	PKP2V A 1.4s 51.2nm
				LmH B 16 0.2/um M = 4.9
				LmV B 16 0.3/um 5.2
9.	ePKP	A	10 39 56	Tonga Islands 19.61 S 173.33 W
	e	C	40 55	H = 10 20 09.7 h = 33 km MB=5.3 MS=5.7
	eSKSP	C	54 36	D = 148.78 Az = 354 (NEIS)
	eSS	C	11 02 30	PKPV A 1.5s 55.3nm
	LmH	B	50.5	LmH B 20 1.5/um M = 5.7
	LmV	B	50.5	LmV B 17.5 1.4/um 5.8
9.	eP	A	16 06 23	Crete 35.68 N 24.00 E
				H = 16 02 19.6 h = 68.6 km MB = 4.5
				D = 17.44 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
9.	ePn	A	21 11 02	Austria 46.2 N 13.1 E
	eSg	A	12 19	H = 21 09 58 h = 33 km
				D = 4.59 Az = 348 (ISC)
9.	+iP	A	22 57 07.8	Tadzhik - Sinkiang Border Region
	LmH	C	23 21.3	38.05 N 73.60 E
	LmV	C	23.0	H = 22 49 07.6 h = 156.1 km MB = 5.3
				D = 44.81 Az = 307 (NEIS)
				PV A 1.1s 52.4nm M = 5.1
				LmH C 18 0.2/um
10.	eP	A	13 01 54	Hindu Kush Region 36.43 N 70.32 E
				H = 12 54 07.5 h = 208.4 km MB = 4.7
				D = 43.72 Az = 308 (NEIS)
10.	eP	A	14 57 32	Madeira Region 35.86 N 10.47 W
				H = 14 52 40.9 h = 10 km (CSEM)
				D = 21.83
10.	ePKP	A	15 08 50	South of Fiji Islands 19.52 S 179.73 E
				H = 14 50 05.2 h = 539.2 km MB = 4.9
				D = 147.54 Az = 346 (NEIS)
				PKPV A 1.2s 20.3nm
10.	LmH	B	18 29.6	Mindanao, Philippine Islands
	LmV	B	33.5	7.99 N 126.83 E
				H = 17 28 23.0 h = 60.1 km MB = 5.5
				D = 99.33 Az = 324 (NEIS)
				LmH B 17.5s 0.9/um
				LmV B 18 1.2/um
11.	eP	A	02 28 16.5	Tadzhik - Sinkiang Border Region
	LmH	C	47.0	39.38 N 73.77 E
	LmV	C	47.5	H = 02 20 07.9 h = 42.9 km MB = 5.3
				D = 44.13 Az = 306 (NEIS)
				PV A 1.0s 31.5nm M = 5.0
				LmH C 19 0.9/um 4.7
				LmV C 13 0.8/um 4.9

Day	Phase		h m s	Remarks
11.	eP	AB	03 28 56	South of Panama 5.00 N 78.15 W
	eS	B	39 32	H = 03 16 15.3 h = 33 km MB=5.5 MS=5.5
	LmH	B	04 01.7	D = 86.03 Az = 40 (NEIS)
	LmV	B	09.7	PV A 1.6s 66.0nm M = 5.6
				PV B 10 1.0/um 5.9
				SH B 11 1.6/um 6.0
				LmH B 22 1.5/um 5.4
				LmV B 17 2.0/um 5.6
11.	LmH	C	11 57.6	Molucca Passage 0.28 N 126.15 E
	LmV	C	58.2	H = 10 53 32 h = 59 km (ISC)
				D = 105.1
				LmH C 22s 0.4/um
				LmV C 22 0.45/um
12.	LmH	B	04 21.8	LmV B 15s 0.5/um
	LmV	B	22.0	
12.	eP	A	05 17 54	Kurile Islands 44.78 N 149.27 E
				H = 05 06 02.0 h = 75.2 km MB = 5.2
				D = 78.10 Az = 334 (NEIS)
				PV A 1.2s 20.3nm M = 5.0
12.	eP	A	09 55 03	Aegean Sea 38.62 N 26.73 E
				H = 09 51 10.8 h = 24.4 km MB = 4.4
				D = 16.09 Az = 323 (NEIS)
				PV A 1.6s 33.0nm M = 4.2
12.	eP	A	09 59 27.5	Aegean Sea 38.57 N 26.71 E
	LmH	B	10 05.1	H = 09 55 33.4 h = 6.5 km MB = 4.7
	LmV	B	05.9	D = 16.12 Az = 323 (NEIS)
				PV A 2.0s 102.6nm M = 4.6
				LmH B 13 9.5/um 5.2
				LmV B 13 3.6/um 4.9
12.	eP	A	13 24 53	Northeastern China 39.94 N 118.82 E
	LmH	B	52.7	H = 13 13 41.1 h = 33 km MB = 4.7 (NEIS)
	LmV	B	58.9	D = 69.6
				LmH B 19.5s 3.7/um M = 5.6
				LmV B 14 1.7/um 5.5

Day	Phase		h m s	Remarks
12.	eP1	AB	14 55 00.5	Baffin Bay 72.36 N 70.21 W
	eP2	A	55 08	H = 14 47 24.9 h = 33 km MB=5.4 MS=5.1
	eS	C	15 01 05	D = 40.36 Az = 77 (NEIS)
	LmV	B	11.1	P1V A 1.6s 98.5nm M = 5.2
	LmV	B	12.5	P2V A 1.5 115.6nm 5.4
				LmH B 18.5 1.8/um 4.9
				LmV B 20 1.9/um 5.0
12.	eP	A	19 39 30	Southern Italy 39.77 N 18.91 E
	e	A	41 38	H = 19 36 35.1 h = 33 km MB = 4.5
				D = 12.03 Az = 337 (NEIS)
12.	eP	A	21 38 18	Szechwan Province, China
				27.57 N 101.19 E
				H = 21 27 14.3 h = 33 km MB = 4.8
				D = 68.95 Az = 317 (NEIS)
12.	ePKHKP	A	23 20 31.5	Fiji Islands Region 19.22 S 177.68 W
	ePKP2	A	20 36.5	H = 23 01 52.5 h = 602.2 km MB = 5.3
				D = 147.78 Az = 349 (NEIS)
				PKHKPV A 1.8s 67.6nm
13.	iPn	A	01 14 41	Northern Italy 46.35 N 12.88 E
	iPg	A	15 00	H = 01 13 36.8 h = 33 km
	iSn	A	15 33	D = 4.39 Az = 349 (NEIS)
	iSg	A	15 53	
13.	+iP	AC	06 13 55	Crete 34.97 N 23.33 E
	eS	C	17 15	H = 06 09 46.5 h = 28.5 km MB=5.1 MS=4.4
	LmH	B	22.7	D = 17.83 Az = 335 (NEIS)
	LmV	B	22.7	PV A 1.7s 115.2nm M = 4.9
				LmH B 17.5 2.7/um 4.6
				LmV B 18 2.4/um 4.7
13.	eP1	A	09 45 35	Greenland Sea 72.97 N 5.40 E
	eP2	A	45 40.5	H = 09 40 36.0 h = 33 km MB = 4.9
	LmH	C	55.2	D = 22.57 Az = 170 (NEIS)
	LmV	C	55.2	P1V A 1.6s 54.9nm M = 4.8
				P2V A 1.7 139.4nm 5.1

Day	Phase		h m s	Remarks
cont. 13.	LmH	C	09 55.2	LmH C 15s 0.5/um M = 4.1
	LmV	C	55.2	LmV C 14 0.6/um 4.3
13.	iPn	A	19 43 05.0	Northern Italy 46.28 N 12.99 E
	iPg	A	43 23.5	H = 19 41 59.9 h = 30 km
	eSg	A	44 19	D = 4.46 Az = 349 (ISC)
13.	eP1	A	21 35 03	Greenland Sea 73.66 N 7.22 E
	eP2	A	35 09.5	H = 21 29 59.5 h = 33 km MB = 4.6
				D = 23.18 Az = 173 (NEIS)
				P2V A 1.5s 25.1nm M = 4.5
14.	iPn	A	03 47 51	Austria 46.37 N 13.02 E
	e	A	48 08	H = 03 46 45.6 h = 10 km
	ePg	A	48 12	D = 4.38 Az = 348 (ISC)
	eiSn	A	48 42	
	eiSg	A	49 07	
14.	eP	A	04 18 55	Ryukyu Islands 29.29 N 129.13 E
	LmH	B	05 00.5	H = 04 06 32.6 h = 59.5 km MB = 4.8
	LmV	B	00.6	D = 83.20 Az = 325 (NEIS)
				PV A traces
				LmH B 14.5s 2.4/um M = 5.7
				LmV B 15 3.1/um 5.8
14.	eP	A	17 23 17	Near East Coast of Honshu, Japan
				37.09 N 141.54 E
				H = 17 10 59.4 h = 44.5 km MB = 5.1
				D = 82.16 Az = 330 (NEIS)
				PV A 1.3s 19.7nm M = 4.9
15.	eP	A	03 26 31	Kurile Islands 49.31 N 155.61 E
	e(pP)	A	26 56.5	H = 03 14 49.8 h = 49 km MB=5.3 MS=4.5
				D = 75.76 Az = 337 (NEIS)
15.	eP	A	07 18 53	Kyushu, Japan 30.65 N 130.76 E
				H = 07 06 34.2 h = 58.7 km MB = 4.8
				D = 82.88 Az = 326 (NEIS)

Day	Phase		h m s	Remarks
15.	eP	A	08 09 43.5	Western Iran 33.25 N 47.93 E
				H = 08 03 23.0 h = 49.3 km MB = 5.4
				D = 31.71 Az = 314 (NEIS)
				PV A 1.5s 22.6nm M = 4.7
15.	iP	AB	14 04 09	Northeastern China 39.44 N 117.69 E
	e	A	04 24	H = 13 53 00.6 h = 15.2 km MB=6.0 MS=6.3
	ePP	B	06 40	D = 69.42 Az = 319 (NEIS)
	eS	C	13 08	PV A 1.7s 412.0nm M = 6.3
	ePS	B	13 40	PV B 7 2.5/um 6.5
	eSS	B	17 45	LmH B 16.5 320.0/um 7.6
	eSSS	C	21 00	LmV B 13 75.5/um 7.2
	LmH	B	31.9	
	LmV	B	38.9	
15.	eP	A	14 25 58	Kurile Islands 45.22 N 148.36 E
				H = 14 14 18.4 h = 146.6 km MB = 5.1
				D = 77.42 Az = 333 (NEIS)
				PV A 1.2s 36.6nm M = 5.0
15.	ePKP	A	15 42 30	Fiji Islands Region 17.42 S 179.16 W
				H = 15 23 53.4 h = 571.4 km MB = 4.7
				D = 145.75 Az = 348 (NEIS)
				PKPV A 1.5s 32.7nm
16.	ePKP	A	15 53 39	Fiji Islands Region 17.63 S 178.99 W
				H = 15 35 00.2 h = 555 km MB = 5.2
				D = 145.98 Az = 348 (NEIS)
				PKPV A 1.6s 27.5nm
16.	LmH	B	19 36.6	Mid Indian Rise 41.76 S 80.07 E
	LmV	B	38.6	H = 18 20 49.0 h = 18 km MB = 5.3 (ISC)
				D = 109.7
				LmH B 16s 1.7/um M = 5.7
				LmV B 18 2.0/um 5.7
17.	eP	A	05 45 01	Kamchatka 50.98 N 156.22 E
				H = 05 33 34.6 h = 112 km MB = 5.5
				D = 74.37 Az = 337 (NEIS)
				PV A 1.4s 32.6nm M = 4.9

Day	Phase		h m s	Remarks
17.	eP	A	06 09 33	Southern Sinkiang Province, China
	LmH	B	32.9	40.76 N 89.63 E
	LmV	B	32.9	H = 06 00 17.6 h = 33 km MB = 4.7
				D = 52.99 Az = 309 (NEIS)
				PV A 1.6s 22.0nm M = 4.9
				LmH B 14.5 1.5/um 5.2
				LmV B 14 2.0/um 5.4
17.	eP	A	08 35 03	Atlantic - Indian Rise 33.92 S 56.28 E
				H = 08 21 50.7 h = 33 km MB = 4.9
				D = 92.97 Az = 333 (NEIS)
17.	+iP	AB	17 31 12.2	Afghanistan - USSR Border Region
				36.47 N 71.16 E
				H = 17 23 23.6 h = 233 km MB = 5.4
				D = 44.24 Az = 308 (NEIS)
				PV A 1.8s 318.0nm M = 5.4
18.	ePKHKP	A	02 15 31	Tonga Islands 19.14 S 173.62 W
				H = 01 55 46.7 h = 38 km MB = 5.1
				D = 148.3
				PKHKPV A 1.6s 27.5nm
18.	ePKIKP	AB	03 43 06.5	Solomon Islands 8.82 S 156.94 E
	ePP	AB	45 21	H = 03 24 00.2 h = 33 km MB=6.1 MS=6.5
	ePKS	B	46 33	D = 129.41 Az = 332 (NEIS)
	ePS	B	55 25	PKIKPV A 2.0s 128.0nm
	ePPS	C	57 05	LmH B 17 6.4/um M = 6.4
	eSS	C	04 02 25	LmV B 21 8.9/um 6.4
	LmH	B	37.2	
	LmV	B	40.5	
18.	ePKP	A	06 02 25.5	West Irian 4.17 S 135.14 E
	ePP	A	03 15	H = 05 43 41.3 h = 33 km MB=5.8 MS=6.3
	LmH	B	47.6	D = 113.98 Az = 324 (NEIS)
	LmV	B	56.5	PPV A 2.2s 81.8nm M = 6.1
				LmH B 18 14.7/um 6.6
				LmV B 19 7.3/um 6.0

Day	Phase		h m s	Remarks
18.	e(P)	A	16 14 51.5	Greenland Sea 76.0 N 6.7 E
				H = 16 09 14.9 h = 0 km
				D = 25.51 Az = 173 (ISC)
19.	ePn	A	13 13 07	Austria 47.64 N 12.88 E
	i	A	13 08	H = 13 12 19.6 h = 33 km
	eSn	A	13 45	D = 3.12 Az = 345 (NEIS)
	eSg	A	13 59	
19.	ePKHKP	A	23 49 02	Fiji Islands Region 20.56 S 178.50 W
	ePKP2	A	49 08	H = 23 30 16.3 h = 569.2 km MB = 4.9
				D = 148.93 Az = 347 (NEIS)
20.	ePn	A	00 02 45	Austria 46.1 N 13.3 E
	eSn	A	03 36	H = 00 01 35 h = 0 km
	eSg	A	04 02	D = 4.71 Az = 347 (ISC)
20.	ePKP	A	09 19 38	Fiji Islands Region 16.11 S 176.13 W
				H = 09 00 45.0 h = 424.9 km MB = 5.0
				D = 144.98 Az = 351 (NEIS)
20.	LmV	B	12 18.1	LmH B 16s 0.4/um
	LmH	B	18.9	LmV B 16 0.7/um
20.	ePKHKP	A	17 55 11.5	South of Fiji Islands 22.21 S 179.43 W
	ePKP2	A	55 20.5	H = 17 36 26.7 h = 594.3 km MB = 5.0
				D = 150.33 Az = 346 (NEIS)
21.	ePKP	A	15 11 47.5	Fiji Islands Region 18.23 S 178.35 W
				H = 14 53 12.1 h = 605.4 km MB = 4.7
				D = 146.70 Az = 348 (NEIS)
21.	eP	A	17 48 15.5	North of Halmahera 3.75 N 128.13 E
	LmH	B	18 32.3	H = 17 34 20.9 h = 76.6 km MB = 5.6
	LmV	B	35.7	D = 103.51 Az = 324 (NEIS)
				LmH B 21s 2.1/um
				LmV B 18 1.7/um

Day	Phase		h m s	Remarks
22.	LmH	C	06 00.6	Mid - Indian Rise 38.50 S 78.61 E
	LmV	C	00.8	H = 04 46 26.0 h = 33 km MB = 5.1 (ISC)
				D = 106.3
				LmH C 17s 1.3/um M = 5.5
				LmV C 19 1.2/um 5.5
22.	eP	A	10 32 27	Greece 38.39 N 21.31 E
				H = 10 29 08.3 h = 33 km
				D = 14.05 Az = 334 (NEIS)
22.	eP	A	11 56 34	Ionian Sea 37.23 N 20.14 E
	e	A	56 42	H = 11 53 06.1 h = 33 km MB = 4.2
				D = 14.73 Az = 338 (NEIS)
22.	ePKIKP	A	18 26 41	Fiji Islands Region 20.38 S 178.43 W
	-iPKHKP	A	26 46.9	H = 18 08 03.0 h = 579.3 km MB = 5.2
	ePKP2	A	26 52.5	D = 148.77 Az = 348 (NEIS)
				PKHKPV A 1.6s 129.1 nm
23.	+iP	AB	05 10 49.2	Eastern Kazakh SSR 49.99 N 79.01 E
	ePn	A	12 23.5	H = 05 02 57.4 h = 0 km MB = 5.9
				D = 41.67 Az = 298 (NEIS)
				Underground explosion (UPP)
				PV A 1.0s 210.6nm M = 5.8
				PH A 1.1 144.6nm 5.8
				PV B 1.5 0.3/um 5.8
23.	iPn	A	07 31 33.0	Austria 46.27 N 13.08 E
	ePg	A	31 53.5	H = 07 30 27.1 h = 33 km
	iSn	A	32 23.5	D = 4.48 Az = 348 (NEIS)
	eSg	A	32 46	
23.	+eP	AB	10 58 15	Off East Coast of Kamchatka
	LmH	B	11 36.0	51.17 N 159.29 E
	LmV	B	36.0	H = 10 46 36.0 h = 33 km MB=5.5 MS=4.9
				D = 74.90 Az = 339 (NEIS)
				PV A 1.8s 121.6nm M = 5.6
				LmH B 16 2.0/um 5.5
				LmV B 16 2.1/um 5.6

Day	Phase		h m s	Remarks
23.	eP	A	16 34 19	Eastern Mediterranean Sea
				34.66 N 28.35 E
				H = 16 29 44.3 h = 40.8 km MB = 4.6
				D = 20.09 Az = 328 (NEIS)
23.	eSg	A	22 32 09	Poland 50.27 N 18.92 E
				H = 22 29 30 M = 2.6 (WAR)
				D = 4.65
24.	LmV	B	03 41.2	LmH B 18s 0.7/um
	LmH	B	41.6	LmV B 18 1.2/um
24.	-eiP	AB	12 27 44	N.W. Iran - USSR Border Region
	eS	B	32 08	39.12 N 44.03 E
	LmH	B	39.1	H = 12 22 18.8 h = 35.9 km MB=6.1 MS=7.3
	LmV	B	42.2	D = 25.49 Az = 308 (NEIS)
				PV A 4.0s 9938.0nm M = 6.7
				PV B 10.5 7.1/um 6.2
				PH B 10.5 32.6/um 6.9
				SH B 17 401.1/um 7.6
				LmH B 16.5 867.0/um 7.4
				LmV B 14 432.0/um 7.2
24.	eP	A	15 09 34	Turkey 39.16 N 43.71 E
	e	A	10 13.5	H = 15 04 04.3 h = 41.2 km MB = 4.9 (NEIS)
				D = 25.2
24.	eP	A	15 16 35	N.W. Iran - USSR Border Region
	eX	A	16 41.5	39.02 N 44.18 E
				H = 15 11 05.4 h = 40 km MB = 5.0 (NEIS)
				XV A 1.4s 23.3nm
24.	eP1	A	16 20 56.5	Off East Coast of Kamchatka
	eP2	A	21 14	52.01 N 161.37 E
				H = 16 09 18.0 h = 33 km MB = 5.6
				D = 74.56 Az = 341 (NEIS)
				P1V A 1.6s 65.9nm M = 5.4
				P2V A 1.4 111.6nm 5.7

Day	Phase		h m s	Remarks
24.	eP	A	16 46 24	Turkey 39.9 N 43.8 E
				H = 16 41 06 h = 33 km MB = 5.4
				D = 24.89 Az = 306
24.	eP1	A	20 51 31	N.W. Iran - USSR Border Region
	eP2	A	51 37	39.08 N 44.05 E
	eS	B	56 10	H = 20 46 06.0 h = 46.1 km MB = 4.8
	LmH	B	21 02.8	D = 25.52 Az = 308 (NEIS)
	LmV	B	04.7	P2V A 1.6s 33.0nm M = 4.6
				SH B 16 1.7/um 5.2
				LmH B 16 1.6/um 5.5
				LmV B 14 1.6/um 4.8
24.	eP	A	21 00 40	Ionian Sea 37.21 N 20.33 E
	e	A	00 49.5	H = 20 57 05.5 h = 33 km MB = 4.3
				D = 14.81 Az = 338 (NEIS)
				PV A 1.6s 38.5nm M = 4.8
24.	eP	A	22 00 24.5	North Atlantic Ocean 32.98 N 61.51 W
				H = 21 50 54.6 h = 33 km MB = 5.1
				D = 55.03 Az = 48 (NEIS)
25.	ePn	A	01 47 34.5	Austria 46.21 N 13.12 E
	ePg	A	47 54	H = 01 46 24.8 h = 1 km
	eSn	A	48 26	D = 4.55 Az = 348 (ISC)
	eSg	A	48 49	
25.	ePn	A	04 13 32.5	Adriatic Sea 42.83 N 17.19 E
	eSn	A	15 12	H = 04 11 27.4 h = 33 km MB = 4.8
	eSg	A	16 08	D = 8.70 Az = 336 (NEIS)
	LmH	B	16.4	PnV A 0.6s 38.3nm M = 5.7
	LmV	B	17.0	LmH B 7 1.4/um 4.1
				LmV B 12 1.1/um
25.	e(S)	A	04 32 50	Adriatic Sea 42.92 N 17.41 E
				H = 04 28 22.2 h = 10 km (CSEM)
				D = 9.44

Day	Phase		h m s	Remarks
25.	eP	A	06 58 02.5	Costa Rica 9.70 N 84.74 W
	epP	A	58 10	H = 06 45 22.2 h = 44.9 km MB=5.2 MS=4.7
	LmH	C	07 36.0	D = 86.58 Az = 39 (NEIS)
	LmV	C	36.0	h = 27 km
				PV A 1.7s 57.6nm M = 5.5
				LmH C 18 0.5/um 5.0
				LmV C 18 0.6/um 5.1
25.	eP	A	09 54 54.5	N.W. Iran - USSR Border Region
	eS	C	59 40	39.03 N 44.29 E
	LmH	B	10 06.6	H = 09 49 26.9 h = 34.4 km MB = 5.0
	LmV	B	06.6	D = 25.71 Az = 308 (NEIS)
				PV A 1.7s 36.4nm M = 4.7
				LmH B 13.5 1.8/um 4.8
				LmV B 15 1.7/um 4.8
25.	-iPKIKP	AB	14 25 27.9	Fiji Islands Region 19.50 S 177.71 W
	eiPKHKP	AB	25 31.5	H = 14 06 35.4 h = 442 km MB = 6.0
	epPKP	B	27 14	D = 148.05 Az = 349 (NEIS)
	e	A	27 44	h = 450 km
	esPKP	C	28 00	PKIKPV A 1.5s 532.7nm
	eSKP	A	28 29	PKHKPV A 1.8 2027.0nm
	ePP	C	29 00	PKHKPV B 6 5.9/um
	e	C	39 15	
	e	C	41 40	
	eSS	C	47 32	
	esSS	C	50 32	
25.	e(P)	A	17 03 52.5	Carlsberg Ridge 1.32 S 67.71 E
				H = 16 52 35.3 h = 33 km MB = 4.8
				D = 70.28 Az = 326 (NEIS)
25.	ePKIKP	A	20 43 34	West Chile Rise 38.92 S 91.54 W
	LmH	B	21 33.0	H = 20 24 29.5 h = 33 km MB=5.4 MS=5.5
	LmV	B	33.0	D = 126.55 Az = 51 (NEIS)
				LmH B 20s 2.5/um M = 5.9
				LmV B 20 2.9/um 6.0

Day	Phase		h m s	Remarks
26.	+ePKP2	A	00 55 36.5	Kermadec Islands 29.35 S 177.46 W
				H = 00 35 11.0 h = 33 km MB = 5.3 (NEIS)
				D = 157.6
				PKP2V A 1.2s 28.5nm
26.	ePKIKP	A	10 11 38	New Britain Region 5.60 S 148.20 E
				H = 09 53 05.3 h = 190.5 km MB = 5.4
				D = 122.34 Az = 329 (NEIS)
26.	-eP1	A	11 31 41.5	Off Coast of Northern California
	eP2	A	31 52	41.29 N 125.71 W
	ePP	AC	34 43.5	H = 11 19 25.2 h = 15 km MB=6.0 MS=6.8
	ePa	B	38 10	D = 81.13 Az = 26 (NEIS)
	eiS	B	41 54	P1V A 2.0s 136.8nm M = 6.0
	eiSP	B	42 35	PV B 12 1.9/um 6.0
	eSS	C	46 40	P2V A 2.5 438.1nm 6.0
	ePKKP	A	49 49	LmH B 17 70.8/um 7.1
	LmH	B	12 09.2	LmV B 17 90.2/um 7.2
	LmV	B	09.3	
27.	+iPKP	A	04 18 47.3	Fiji Islands Region 17.85 S 178.81 W
				H = 04 00 09.7 h = 575.7 km MB = 5.5
				D = 146.24 Az = 348 (NEIS)
				PKPV A 1.5s 50.3nm
27.	+iP	AB	04 44 17.0	Central Mid - Atlantic Ridge
	eS	C	52 25	1.04 N 26.38 W
	LmH	B	05 08.3	H = 04 34 18.4 h = 33 km MB=5.4 MS=5.1
	LmV	B	11.6	D = 58.97 Az = 27 (NEIS)
				PV A 1.5s 57.8nm M = 5.5
				LmH B 15 0.35/um 4.6
				LmV B 15 0.6/um 4.9
27.	ePKHKP	A	12 32 53	South of Fiji Islands 22.50 S 179.58 W
	ePKP2	A	33 02	H = 12 14 05.5 h = 584.6 km MB = 5.2
				D = 150.57 Az = 345 (NEIS)

Day	Phase		h m s	Remarks
27.	+eP	A	15 40 14.5	Ionian Sea 37.50 N 20.08 E
				H = 15 36 41.4 h = 33 km MB = 4.5
				D = 14.47 Az = 338 (NEIS)
				PV A 0.9s 15.6nm M = 4.5
27.	eP	A	18 48 20	Ionian Sea 37.21 N 20.10 E
				H = 18 44 45.4 h = 33 km MB = 4.2
				D = 14.75 Az = 338 (NEIS)
27.	+iP	AB	21 50 03.5	Afghanistan - USSRBorder Region
	e(pP)	C	50 55	36.51 N 71.04 E
	e	B	52 16	H = 21 42 12.2 h = 190 km MB = 6.1
	e	C	52 50	D = 44.14 Az = 308 (NEIS)
	eS	C	56 20	PV A 1.3s 1454.1nm M = 6.3
	esS	B	57 30	PH A 1.3 736.9nm 6.4
	e	C	59 24	PV B 2.5 3.8/um 6.5
	LmV	B	22 00.3	LmH B 14 3.0/um
	LmH	B	01.0	LmV B 14 2.0/um
28.	LmH	C	00 12.4	LmH C 20s 0.8/um
	LmV	C	18.4	LmV C 18 0.5/um
28.	LmH	C	00 24.8	LmH C 20s 0.7/um
	LmV	C	31.0	LmV C 16 0.4/um
28.	eP	A	10 01 59	Ionian Sea 37.44 N 20.07 E
				H = 09 58 26.6 h = 33 km
				D = 14.51 Az = 338 (NEIS)
28.	eP	A	13 05 25.5	Hokkaido, Japan Region
				41.09 N 140.70 E
				H = 12 53 24.0 h = 13.2 km MB = 5.2
				D = 78.37 Az = 330 (NEIS)
				PV A 1.0s 23.6nm M = 5.2
28.	eP	A	15 20 31	Ionian Sea 37.03 N 20.13 E
				H = 15 16 53.6 h = 33 km
				D = 14.92 Az = 339 (NEIS)

Day	Phase		h m s	Remarks
28.	+eP1	A	19 28 45	Ionian Sea 37.30 N 20.35 E
	+iP2	A	28 54.5	H = 19 25 17.3 h = 24 km MB = 4.8
	LmH	C	34.0	D = 14.73 Az = 338 (NEIS)
	LmV	C	36.0	P1V A 1.3s 39.3nm M = 4.7
				P2V A 1.3 135.4nm 5.2
				LmH C 18 1.0/um 4.0
				LmV C 14 1.3/um
29.	ePn	A	04 18 28	Austria 46.37 N 13.14 E
	eSg	A	19 43	H = 04 17 19.7 h = 0 km
				D = 4.39 Az = 347 (ISC)
29.	eP	A	17 20 26.5	Crete 34.86 N 25.70 E
				H = 17 16 07.3 h = 46.3 km MB = 4.8
				D = 18.81 Az = 331 (NEIS)
29.	ePn	A	20 59 56.5	Austria 46.55 N 13.35 E
	ePg	A	21 00 15	H = 20 58 48.1 h = 10 km
	eSn	A	00 47.5	D = 4.26 Az = 345 (NEIS)
	eSg	A	01 10	
30.	eP	AB	00 54 35.5	Chile - Bolivia Border Region
	Pm	A	54 49	20.52 S 68.92 W
	eipP	B	55 02	H = 00 40 57.8 h = 81.9 km MB = 6.5
	eiPP	AB	58 37	D = 99.82 Az = 40 (NEIS)
	ei	B	59 12	h = 100 km
	iSKS	B	01 05 08	PmV A 2.2s 872.4nm M = 7.0
	eiS	B	05 58	pPV A 16 2.2/um
	e	B	07 25	PPV B 4.5 3.0/um 7.22
	e	B	08 14	SH B 14.5 10.6/um 7.1
	iPKKP	A	11 25.5	PKKPV A 3.0 1157.9nm
	eSS	B	12 58	LmH B 20 80.3/um
	e(PKKS)	A	15 23	LmV B 20 111.7/um
	eP'P'	A	19 16.5	
	e	A	19 25	
	LmH	B	36.2	
	LmV	B	36.2	

Day	Phase		h m s	Remarks
30.	ePKP2	A	09 11 08.5	South of Tonga Islands
				24.24 S 175.13 W
				H = 08 51 00.8 h = 33 km MB = 5.3 (NEIS)
				D = 153.0

Day	Phase		h m s	Remarks
1.	eP	A	05 11 33.5	Red Sea 15.87 N 41.68 E
				H = 05 03 38.7 h = 33 km MB = 4.8
				D = 42.29 Az = 332 (NEIS)
1.	eP	A	14 28 17.5	Costa Rica 9.77 N 84.77 W
	LmH	B	15 06.3	H = 14 15 39.0 h = 57.7 km MB = 5.3
	LmV	B	06.5	D = 86.55 Az = 39 (NEIS)
				PV A 1.4s 162.4nm
				LmH B 18 1.1/um M = 5.3
				LmV B 20 1.6/um 5.5
2.	eP	A	01 32 10	South of Honshu, Japan 30.98 N 139.53 E
	ePP	A	35 33	H = 01 19 29.2 h = 36.0 km MB=5.6 MS=5.4
	LmH	B	02 10.8	D = 86.62 Az = 330 (NEIS)
	LmV	B	16.3	PPV A 2.0s 44.2nm M = 5.5
				LmH B 14 5.7/um 6.1
				LmV B 14 4.5/um 6.1
2.	ePg	A	11 16 31	Czechoslovakia 50.54 N 14.06 E
	iSg	A	16 52.5	H = 11 16 00.9 h = 0 km
				D = 1.56 Az = 275 (ISC)
2.	ePKP	A	16 31 39.5	Loyalty Islands 21.51 S 168.52 E
				H = 16 11 59.5 h = 13 km MB = 4.9
				D = 145.73 Az = 334 (NEIS)
				PKPV A 1.5s 50.3nm
3.	e(PKP2)	A	17 22 04	Kermadec Islands Region 31.59 S 178.38 W
				H = 17 01 18.1 h = 33 km MB = 5.2 (NEIS)
				D = 159.7
				(PKP2)V A 1.7s 27.3nm
4.	eP	A	04 16 04	Turkey 39.28 N 43.57 E
	e	A	16 15	H = 04 10 32.9 h = 22.1 km MB = 4.8
				D = 25.11 Az = 307 (NEIS)
4.	e	A	12 46 36	Chile - Bolivia Border Region
	ePP	A	50 02	20.38 S 68.53 W
				H = 12 32 29.6 h = 72.2 km MB = 5.6
				D = 99.48 Az = 39 (NEIS)

Day	Phase		h m s	Remarks
4.	eP	A	15 45 45.5	Adriatic Sea 43.2 N 15.6 E
	e	A	47 30	H = 15 43 41 h = 0 km
	e	A	47 57	D = 7.95 Az = 341 (ISC)
4.	ePKIKP	A	21 45 08	West of Macquarie Island
	ePKHKP	A	45 17.5	56.75 S 147.49 E
	ePKP2	A	45 36.5	H = 21 25 12.3 h = 33 km MB = 5.3
	eSS	C	22 08 40	D = 153.55 Az = 276 (NEIS)
	LmH	B	23 04.9	PKIKPV A 1.6s 33.0nm
	LmV	B	09.2	LmH B 16 1.7/um M = 5.9
				LmV B 18 2.0/um 6.0
5.	-iPKP	A	17 30 52.8	Tonga Islands Region 18.00 S 172.40 W
	+iX	A	31 04.6	H = 17 11 08.6 h = 15.3 km MB = 5.3
				D = 147.27 Az = 355 (NEIS)
				PKPV A 1.3s 34.9nm
				XV A 1.7 60.6nm
5.	eP	A	22 13 32.5	Bonin Islands Region 28.56 N 139.66 E
				H = 22 01 18.8 h = 366 km MB = 5.2
				D = 88.76 Az = 330 (NEIS)
				PV A 1.4s 20.9nm M = 4.8
5.	LmH	C	24 23.4	Luzon 17.37 N 120.08 E
	LmV	C	23.4	H = 23 28 56.5 h = 43 km MB = 5.2 (ISC)
				D = 87.8
				LmH C 18s 1.2/um M = 5.4
				LmV C 19 0.9/um 5.2
6.	eP	A	04 03 33.5	N.W. Iran - USSR Border Region
				39.04 N 44.40 E
				H = 03 58 03.7 h = 47.7 km MB = 4.4
				D = 25.76 Az = 308 (NEIS)
6.	eP	A	07 11 14	North of Ascension Island
				3.41 S 12.06 W
				H = 07 01 26.1 h = 33 km MB=4.9 MS=4.6
				D = 57.55 Az = 18 (NEIS)

Day	Phase		h m s	Remarks
7.	iPn	A	03 38 09.5	Austria 46.22 N 13.22 E
	eSn	A	38 59	H = 03 37 00.7 h = 10 km
	eSg	A	39 24	D = 4.56 Az = 347 (ISC)
7.	+iP	A	05 04 49.2	Eastern Kazakh SSR 49.88 N 78.91 E
				H = 04 56 57.4 h = 0 km MB = 5.9
				D = 41.66 Az = 298 (NEIS)
				Underground explosion (UPP)
				PV A 1.1s 209.7nm M = 5.8
7.	eP	A	09 48 28	Near S. Coast of Honshu, Japan
				33.95 N 137.01 E
				H = 09 36 39.1 h = 341.9 km MB = 5.0
				D = 82.99 Az = 328 (NEIS)
				PV A 1.5s 22.6nm M = 4.8
7.	ePKIKP	A	11 35 19	Fiji Islands Region 18.93 S 176.58 W
	LmH	B	12 37.7	H = 11 15 41.5 h = 45.7 km MB=5.6 MS=5.9
	LmV	B	37.7	D = 147.69 Az = 350 (NEIS)
				PKIKPV A 1.1s 80.7nm
				LmH B 22 4.3/um M = 6.1
				LmV B 22 5.1/um 6.2
7.	ePKIKP	A	12 29 37	Solomon Islands 7.26 S 156.16 E
				H = 12 10 37. 6 h = 69.8 km MB = 5.4
				D = 127.69 Az = 332 (NEIS)
7.	eP	A	13 12 36	W. Ariz.-Mexico Border Region
	e	A	12 47	31.98 N 114.78 W
	LmH	C	47.2	H = 12 59 56.3 h = 8 km MB=5.5 MS=5.7
	LmV	C	47.8	D = 85.10 Az = 31 (NEIS)
				LmH C 22s 3.1/um M = 5.7
				LmV C 21 3.5/um 5.8
8.	eP	A	08 50 30	Republic of South Africa
				27.95 S 26.65 E
				H = 08 38 25.7 h = 33 km MB = 5.2
				D = 79.38 Az = 350 (NEIS)
				PV A 1.0s 15.7nm M = 5.0

Day	Phase		h m s	Remarks
8.	eP	A	19 31 38.5	Kurile Islands 43.23 N 147.83 E
	epP	A	31 50.5	H = 19 19 36.2 h = 33 km MB=5.4 MS=5.1
	LmH	B	20 03.8	D = 79.02 Az = 333 (NEIS)
	LmV	B	11.5	h = 44 km
				PV A 1.1s 32.3nm M = 5.2
				pPV A 1.2 56.9nm
				LmH B 20 2.3/um 5.5
				LmV B 14 2.1/um 5.7
9.	iPg	A	09 00 55.3	Czechoslovakia 50.58 N 14.04 E
	eiSg	A	01 17	H = 09 00 25.9 h = 0 km
				D = 1.54 Az = 274 (ISC)
9.	eP1	A	10 03 06	Off Coast of Oregon 44.53 N 129.96 W
	eP2	A	03 14	H = 09 50 59.5 h = 18 km MB=5.3 MS=5.5
	eP3	A	03 21.5	D = 79.51 Az = 24 (NEIS)
	ePP	C	06 12	P1V A 2.0s 42.7nm M = 5.1
	eiS	C	13 10	P2V B 8 1.1/um 5.9
	e	C	15 00	P3V A 2.0 85.5nm 5.4
	eSS	C	18 30	LmH B 17 5.8/um 6.0
	LmH	B	40.6	LmV B 17 5.0/um 6.0
	LmV	B	40.6	
9.	eP	A	10 10 25	Off Coast of Oregon 44.51 N 130.10 W
				H = 09 58 13.0 h = 15 km MB = 4.9
				D = 79.56 Az = 24 (NEIS)
9.	e(P)	A	10 40 19.5	Off Coast of Oregon 44.59 N 129.45 W
				H = 10 28 06.9 h = 15 km MB = 5.1
				D = 79.30 Az = 24 (NEIS)
9.	eP	A	13 15 59	Kurile Islands 43.32 N 147.64 E
				H = 13 03 54.7 h = 33 km MB = 4.7
				D = 78.88 Az = 333 (NEIS)
9.	eP	A	15 49 28.5	Kurile Islands 44.53 N 147.80 E
				H = 15 37 41.3 h = 106.5 km MB = 5.2
				D = 77.85 Az = 333 (NEIS)
				PV A 1.8s 67.6nm M = 5.2
9.	e	A	16 11 11	Off East Coast of Kamchatka
				51.37 N 159.39 E
				H = 15 59 20.9 h = 33 km
				MB = 4.7 MS = 4.4 (NEIS)
				D = 74.7

Day	Phase		h m s	Remarks
9.	LmV	C	17 13.6	LmH C 20s 0.2/um
	LmH	C	13.8	LmV C 19 0.4/um
9.	LmV	C	23 20.0	Yellowstone National Park, - Wyoming
				44.73 N 110.68 W
				H = 22 36 22.9 h = 5 km (ISC)
				D = 72.7
				LmV C 21s 0.2/um M = 4.5
10.	LmH	C	00 57.6	LmH C 15s 0.25/um
	LmV	C	57.6	LmV C 15 0.3/um
10.	ePKP	A	06 06 15	Tonga Islands 15.33 S 174.98 W
				H = 05 47 15.1 h = 303.7 km MB = 5.0
				D = 144.37 Az = 353 (NEIS)
				PKPV A 1.3s 28.4nm
10.	eP	A	11 01 29	Mindanao, Philippine Islands
				6.18 N 126.16 E
				H = 10 47 30.7 h = 41.3 km MB = 5.2
				D = 100.40 Az = 324 (NEIS)
10.	eP	A	11 51 23	Ionian Sea 37.26 N 20.42 E
				H = 11 47 47 h = 3 km
				D = 14.79 Az = 338 (ISC)
				PV A 1.5s 30.2nm
10.	eP	A	23 18 39	Luzon, Philippine Islands
	eSKS	C	29 08	13.96 N 124.83 E
	eS	C	29 48	H = 23 05 27.2 h = 33 km MB = 5.5 (NEIS)
	LmH	C	24 05.0	D = 93.3
	LmV	C	06.2	PV A 2.0s 34.2nm M = 5.5
				LmH C 18 2.4/um 5.7
				LmV C 17 2.3/um 5.7
11.	eP	A	00 47 41	Kurile Islands 45.08 N 150.39 E
				H = 00 35 44.3 h = 33 km MB = 4.8
				D = 78.17 Az = 335 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	01 19 01.5	Taiwan Region 20.97 N 120.33 E
				H = 01 06 24.9 h = 21.1 km MB = 4.9
				D = 85.21 Az = 323 (NEIS)
11.	ePg	A	08 22 38	Czechoslovakia 50.56 N 14.01 E
	i	A	22 38.5	H = 08 22.1
	eSg	A	22 58	D = 1.53 Az = 274 (ISC)
11.	eP	A	08 50 34	Near East Coast of Kamchatka
				53.78 N 160.48 E
				H = 08 39 08.6 h = 33 km MB = 5.0
				D = 72.70 Az = 340 (NEIS)
11.	eP	A	18 20 08	Nicobar Islands Region 7.49 N 93.81 E
	eS	C	30 00	H = 18 08 04.4 h = 33 km MB=5.6 MS=5.9
	eSS	C	36 05	D = 79.30 Az = 320 (NEIS)
	LmV	B	19 02.5	PV A 1.4s 23.3nm M = 5.0
	LmH	B	02.8	LmH B 18 4.2/um 5.8
				LmV B 17 4.40/um 5.9
11.	e(P)	A	23 21 23	Gulf of California 25.89 N 110.28 W
	e	A	21 42.5	H = 23 08 27.7 h = 33 km MB=5.2 MS=5.0
	LmH	B	24 01.5	D = 88.17 Az = 33 (NEIS)
	LmV	B	01.5	LmH B 16s 2.7/um M = 5.8
				LmV B 17 3.6/um 5.9
12.	eP	A	01 16 22	Ionian Sea 37.13 N 19.87 E
	e	A	16 32.5	H = 01 12 53.2 h = 11 km
				D = 14.75 Az = 339 (ISC)
12.	-iP	A	01 20 52.7	Bonin Islands Region 28.04 N 139.58 E
	epP	B	22 45	H = 01 08 50.1 h = 491.4 km MB = 5.9
	ePP	A	24 34	D = 89.17 Az = 330 (NEIS)
	e	B	25 32	h = 523 km
	eS	B	30 48	PV A 1.5s 211.1nm M = 5.8
	eSP	A	32 03	SPV A 2.0 316.2nm
	e	B	34 16	
	eSS	B	37 04	
	ePKKP	A	38 24	

Day	Phase		h m s	Remarks
cont.				
12.	LmH	B	02 01.3	
	LmV	B	07.6	
12.	ePn	A	05 10 10	Yugoslavia 45.80 N 15.76 E
	ePg	A	10 27	H = 05 08 46.3 h = 7.9 km
	eSn	A	11 38	D = 5.59 Az = 332 (NEIS)
12.	eP	A	05 33 55	Nicobar Islands Region 7.54 N 94.07 E
				H = 05 21 44.8 h = 33 km MB = 4.9 (NEIS)
				D = 79.5
12.	eP	A	07 59 50	N.W. Iran - USSR Border Region
	eS	B	08 04 20	38.99 N 44.24 E
	LmH	C	09.5	H = 07 54 19.9 h = 40.2 km MB = 4.8
	LmV	C	12.0	D = 25.69 Az = 308 (NEIS)
				LmH C 20s 1.2/um M = 4.4
				LmV C 20 1.3/um 4.6
12.	eP	A	13 12 37	Albania 40.29 N 19.54 E
				H = 13 09 48.3 h = 33 km
				D = 11.75 Az = 334 (NEIS)
13.	iPn	A	05 25 15.6	Northern Italy 45.86 N 10.91 E
	eiPg	A	25 32.5	H = 05 24 05.9 h = 33.5 km
	eSn	A	26 12	D = 4.81 Az = 5 (NEIS)
	eSg	AB	26 35	LmH B 8s 2.3/um M = 3.9
	LmH	B	27.3	LmV B 8 2.8/um
	LmV	B	27.3	
13.	eP	A	06 48 04	Szechwan Province, China
	eSa	C	07 04 45	27.40 N 101.06 E
	LmH	B	18.9	H = 06 36 58.3 h = 17 km MB=5.4 MS=5.9
	LmV	B	19.2	D = 68.99 Az = 317 (NEIS)
				PV A 1.3s 48.0nm M = 5.5
				LmH B 19 9.6/um 6.1
				LmV B 18 6.0/um 5.9

Day	Phase		h m s	Remarks
13.	ePKHKP	A	21 39 51	Tonga Islands 20.41 S 173.77 W
				H = 21 20 03.6 h = 33 km MB = 4.6
				D = 149.53 Az = 353 (NEIS)
13.	eP	A	23 14 19	South of Honshu, Japan 31.15 N 142.42 E
	ePP	A	17 45	H = 23 01 32.1 h = 33 km MB=5.4 MS=5.0
	LmH	B	54.3	D = 87.70 Az = 331 (NEIS)
	LmV	B	58.7	PV A 2.5s 153.7nm M = 5.8
				PPV A 2.0 51.3nm 5.6
				LmH B 16 0.8/um 5.2
14.	ePn	A	08 58 12	Northern Italy 45.69 N 10.72 E
	ePg	A	58 28	H = 08 56 59.2 h = 33 km
	eSn	A	59 06	D = 5.00 Az = 7 (NEIS)
	eSg	A	59 37	
14.	ePKP	A	09 15 49.5	Loyalty Islands 20.74 S 168.32 E
				H = 08 56 12.0 h = 33 km
				D = 144.96 Az = 334 (NEIS)
14.	-iP	AB	16 19 16	Ryukyu Islands 28.29 N 130.70 E
	iS	BC	29 40	H = 16 06 44.4 h = 41 km MB=6.3 MS=6.2
	ei	BC	29 58	D = 84.80 Az = 326 (NEIS)
	ePKKP	A	37 25	PV A 2.0s 752.1nm M = 6.5
	e	A	37 37	PV B 9 5.9/um 6.8
	LmH	B	55.9	SH B 8.5 11.3/um 7.0
	LmV	B	17 01.7	LmH B 16 66.5/um 7.1
				LmV B 16 62.7/um 7.1
14.	eP	A	19 47 36.5	Ryukyu Islands 28.27 N 130.60 E
	eS	C	58 05	H = 19 35 04.4 h = 39 km MB=5.6 MS=5.5
	LmH	B	20 24.1	D = 84.77 Az = 326 (NEIS)
	LmV	B	30.0	PV A 2.0s 85.5nm M = 5.6
				LmH B 16 5.0/um 6.0
				LmV B 16 5.7/um 6.1
14.	e(P)	A	20 33 50	Kamchatka 55.34 N 160.47 E
				H = 20 22 28.9 h = 43.7 km MB=5.3 MS=4.8
				D = 71.24 Az = 340 (NEIS)

Day	Phase		h m s	Remarks
15.	eP	A	00 35 46.5	Kazakh - Sinkiang Border Region
				48.60 N 84.99 E
				H = 00 27 26.3 h = 33 km MB=4.9 MS=3.9
				D = 45.76 Az = 302 (NEIS)
15.	eP	A	04 46 03	Burma - India Border Region
				23.13 N 94.61 E
				H = 04 35 11.4 h = 96.5 km MB = 5.0
				D = 68.12 Az = 317 (NEIS)
				PV A 1.1s 12.2nm M = 5.0
15.	ePKP	A	07 13 00	Tonga Islands 16.12 S 173.39 W
				H = 06 53 22.8 h = 33 km MB = 4.8
				D = 145.33 Az = 354 (NEIS)
15.	+eiPKP	AB	07 30 01	Tonga Islands 15.32 S 173.99 W
	e	A	30 23	H = 07 10 27.8 h = 79 km MB = 5.5
				D = 146.45 Az = 354 (NEIS)
				PKPV A 1.5s 211.1nm
15.	eP	A	12 38 33.5	Ryukyu Islands 28.16 N 130.59 E
	LmH	B	13 20.6	H = 12 25 54.9 h = 3.1 km MB = 5.3
	LmV	B	21.0	D = 84.85 Az = 326 (NEIS)
15.	e(PP)	A	13 33 36.5	Marianas 13.10 N 145.07 E
	LmH	B	14 18.0	H = 13 15 17.1 h = 78 km MB = 5.4 (ISC)
	LmV	B	18.7	D = 104.7
				LmH B 22s 0.9/um
				LmV B 22 1.8/um
15.	ePn	A	14 16 20.5	Czechoslovakia 50.64 N 15.16 E
	iPg	A	16 26.5	H = 14 15 42.6 h = 18.9 km
	iSg	A	17 02.0	D = 2.26 Az = 271 (NEIS)
15.	eP	A	16 10 28	Crete 35.48 N 23.33 E
				H = 16 06 24.7 h = 49.5 km MB = 4.5
				D = 17.38 Az = 334 (NEIS)

Day	Phase		h m s	Remarks
16.	eP	A	07 47 36	Eastern Mediterranean Sea
				34.87 N 27.57 E
				H = 07 43 08.5 h = 33 km MB = 3.8
				D = 19.57 Az = 329 (NEIS)
16.	ePKIKP	A	12 49 31	Fiji Islands Region 17.90 S 178.67 W
	ePKHKP	A	49 33	H = 12 30 53.9 h = 560.4 km MB = 5.2
				D = 146.31 Az = 348 (NEIS)
				PKIKPV A 1.3s 30.6nm
				PKHKPV A 1.6 120.9nm
16.	ePn	A	20 03 20.5	Austria 46.28 N 13.13 E
	ePg	A	03 44	H = 20 02 14.4 h = 33 km
	eSn	A	04 13	D = 4.49 Az = 348 (ISC)
	eSg	A	04 32	
17.	eP	A	02 48 30	Kirgiz - Sinkiang Border Region
				41.07 N 78.84 E
				H = 02 40 08.1 h = 58.7 km MB = 4.9
				D = 46.29 Az = 306 (NEIS)
				PV A 1.4s 18.6nm M = 4.8
17.	ePg	A	08 38 20.5	Czechoslovakia 50.58 N 14.02 E
	iSg	A	38 41.0	Explosion of 18.0 t
				H = 08 37.9 (PRU)
				D = 1.53 Az = 273 (ISC)
17.	eP	A	10 12 19	Tsinghai Province, China
				33.34 N 93.91 E
				H = 10 02 11.3 h = 33 km MB=5.1 MS=4.3
				D = 60.45 Az = 314 (NEIS)
				PV A 2.2s 54.5nm M = 5.3
17.	ePKHKP	A	12 44 12	Fiji Islands Region 20.61 S 178.49 W
				H = 12 25 25.9 h = 566.1 km MB = 4.8
				D = 148.98 Az = 347 (NEIS)

Day	Phase		h m s	Remarks
18.	ePKHKP	A	00 45 04	Tonga Islands Region 23.23 S 175.64 W
				H = 00 25 23.4 h = 157.5 km MB = 5.1
				D = 152.06 Az = 350 (NEIS)
				traces
18.	eP	A	03 18 08	Near East Coast of Honshu, Japan
				38.28 N 141.99 E
				H = 03 05 55.7 h = 49.9 km MB = 4.8
				D = 81.30 Az = 331 (NEIS)
				traces
18.	eP	A	05 16 48	Ryukyu Islands 28.27 N 130.72 E
	eS	C	27 15	H = 05 04 14.9 h = 33 km MB=5.3 MS=4.6
	LmH	B	06 01.2	D = 84.83 Az = 326 (NEIS)
	LmV	B	01.2	PV A 2.2s 65.4nm M = 5.4
				LmH B 15 0.9/um 5.3
				LmV B 14.5 0.6/um 5.2
18.	e	A	09 03 23.5	Poland 50.5 N 16.2 E
	eSg	A	04 04.5	H = 09 02 29 h = 0 km
				D = 2.92 Az = 275 (ISC)
18.	ePKP	A	16 10 48.5	Tonga Islands 16.05 S 173.49 W
				H = 15 51 17.2 h = 62.5 km MB = 4.7
				D = 145.24 Az = 354 (NEIS)
18.	LmH	C	16 40.0	Kermadec Islands Region
	LmV	C	42.0	27.46 S 176.32 W
				H = 14 55 34.0 h = 57.4 km MB = 5.1 (NEIS)
				D = 156.0
				LmH C 14s 0.3/um
				LmV C 15 0.5/um
18.	eP	A	18 20 52	Ryukyu Islands 130.64 E 28.03 N
	LmH	C	19 00.3	H = 18 08 18.2 h = 33 km MB=5.1 MS=4.2
	LmV	C	03.0	D = 84.98 Az = 326 (NEIS)
				PV A 1.7s 24.2nm M = 5.1

Day	Phase		h m s	Remarks
19.	ePKHKP	A	09 29 48	Fiji Islands Region 21.89 S 179.46 W
	ePKP2	A	29 56	H = 09 11 03.5 h = 600 km MB = 5.3 (NEIS)
				D = 150.0
				PKHKPV A 0.8s 23.1nm
19.	eP	A	10 36 11.5	Greece - Albania Border Region
				39.93 N 20.59 E
				H = 10 33 14.4 h = 33 km
				D = 12.43 Az = 333 (NEIS)
				traces
19.	eP	A	11 03 08.5	West Caroline Islands 7.68 N 133.61 E
	e	A	06 34	H = 10 49 10.1 h = 33 km MB=5.8 MS=4.9
	ePP	A	07 25	D = 103.41 Az = 326 (NEIS)
	LmV	B	54.8	PV A 1.7s 42.4nm M = 5.9
	LmH	B	55.0	LmH B 17 0.7/um 5.2
				LmV B 17 0.8/um 5.3
19.	+eP	A	14 49 37.5	Kurile Islands 46.58 N 151.57 E
				H = 14 37 52.8 h = 91 km MB = 5.3
				D = 77.17 Az = 335 (NEIS)
				PV A 1.9s 113.6nm M = 5.4
19.	eP	A	21 26 00	Mediterranean Sea 33.21 N 14.25 E
	LmH	B	32.6	H = 21 21 56.2 h = 33 km MB = 4.3
	LmV	B	34.8	D = 17.53 Az = 354 (NEIS)
				PV A 1.2s 20.3nm M = 4.1
				LmH B 19 1.0/um 4.1
				LmV B 14 0.5/um 4.1
20.	ePKP	A	05 35 08.5	Fiji Islands Region 18.05 S 178.13 W
				H = 05 16 28.9 h = 556.1 km MB = 4.7
				D = 146.56 Az = 349 (NEIS)
				PKPV A 2.0s 51.3nm
20.	LmH	C	07 49.5	West Chile Rise 40.41 S 91.7 W
	LmV	C	49.5	H = 06 35 35 h = 66 km MB = 4.9 (ISC)
				D = 127.6
				LmH C 18s 0.25/um
				LmV C 19 0.2/um

Day	Phase		h m s	Remarks
20.	eP	A	10 31 33	Costa Rica 9.27 N 83.93 W
	epP	A	31 47	H = 10 18 56.8 h = 65.9 km MB = 5.5
	LmH	B	11 05.0	D = 86.41 Az = 39 (NEIS)
	LmV	B	05.0	h = 52 km
				PV A 1.6s 98.9nm M = 5.6
				LmH B 21 1.0/um
				LmV B 22 0.9/um
20.	eP	A	17 24 25	Vancover Island Region 49.08 N 128.96 W
	e	A	24 29	H = 17 12 41.0 h = 10 km MB = 5.1
	eX	A	24 37.5	D = 75.07 Az = 25 (NEIS)
	LmV	B	18 01.6	XV A 1.2s 24.4nm
	LmH	B	01.8	LmH B 14 0.5/um M = 5.0
				LmV B 14 0.6/um 5.1
20.	eP	A	18 41 46	Near East Coast of Kamchatka
				51.20 N 158.03 E
				H = 18 30 09.9 h = 33 km MB = 5.1
				D = 74.59 Az = 339 (NEIS)
				traces
20.	ePKP	A	19 16 00	Fiji Islands Region 17.88 S 178.63 W
				H = 18 57 24.3 h = 608.7 km MB = 4.8 (NEIS)
				D = 146.3
				traces
20.	eP	A	20 44 52.5	Vancouver Island Region 48.80 N 129.29 W
	Pm	A	45 08	H = 20 33 07.8 h = 10 km MB=5.9 MS=6.7
	iS	B	54 35	D = 75.41 Az = 25 (NEIS)
	eiSS	C	59 20	PV A 2.0s 111.1nm M = 5.6
	LmH	B	21 18.3	PmV A 2.0 341.9nm 6.1
	LmV	B	20.5	SH B 13 9.6/um 6.7
				LmH B 18.5 61.3/um 6.9
				LmV B 16 49.0/um 6.9
20.	eP	A	21 18 23.5	Vancouver Island Region 48.90 N 128.72 W
				H = 21 06 39.1 h = 10 km MB = 5.1
				D = 75.17 Az = 25 (NEIS)
				PV A 1.1s 24.2nm M = 5.2

Day	Phase		h m s	Remarks
20.	eP1	A	21 24 31	Vancouver Island Region 49.16 N 129.02 W
	eP2	A	24 33.5	H = 21 12 48.8 h = 10 km MB = 5.1
				D = 75.02 Az = 25 (NEIS)
				P2V A 1.1s 16.1nm M = 5.0
20.	eP	A	21 33 17	Vancouver Island Region 48.92 N 128.57 W
				H = 21 21 32.5 h = 10 km MB = 4.9
				D = 75.11 Az = 25 (NEIS)
21.	eP	A	18 48 18	Szechwan Province, China 27.29 N 101.13 E
	e	A	48 22	H = 18 37 12.9 h = 33 km MB = 4.9
				D = 69.11 Az = 317 (NEIS)
				traces
22.	eP	A	01 14 59	Volcano Islands Region 23.30 N 143.72 E
	ePP	A	18 49	H = 01 01 41.0 h = 49 km MB=5.8 MS=5.6
	eSS	C	32 35	D = 95.12 Az = 332 (NEIS)
	LmH	B	59.3	PV A 1.1s 28.2nm M = 5.6
	LmV	B	02 07.2	PPV A 1.4 30.2nm 5.5
				LmH B 16 2.5/um 5.8
				LmV B 16 1.9/um 5.7
23.	ePg	A	01 21 33.5	D c. 1.1
	i	A	21 34.5	
	iSg	A	21 49.0	
23.	ePn	A	02 25 53	Northern Italy 46.93 N 12.68 E
	eSg	A	27 07	H = 02 24 55.4 h = 33 km
				D = 3.78 Az = 350 (NEIS)
23.	eP	AB	09 51 13	Off Coast of Northern California
	eS	C	10 01 26	41.78 N 125.95 W
	eSS	C	07 00	H = 09 38 58.4 h = 15 km MB=5.5 MS=5.5
	LmV	B	27.5	D = 80.77 Az = 26 (NEIS)
	LmH	B	27.8	PV A 1.5s 40.2nm M = 5.2
				LmH B 20 4.9/um 5.9
				LmV B 20 6.0/um 6.0

Day	Phase	h m s	Remarks
24.	LmH B	10 04.0	Off Coast of Southern Chile
	LmV B	04.9	45.59 S 75.6 W
			H = 08 56 15.0 h = 33 km MB = 5.0 (ISC)
			D = 121.8
			LmH B 20s 1.1/um M = 5.5
			LmV B 22 1.2/um 5.5
24.	ePKIKP A	10 31 03	New Britain Region 4.36 S 152.80 E
			H = 10 12 09.8 h = 56.9 km MB = 5.3
			D = 123.57 Az = 331 (NEIS)
24.	ePKP2 A	14 38 27	Kermadec Islands Region 31.11 S 178.83 W
			H = 14 18 06.6 h=108 km MB = 5.3 (NEIS)
			D = 159.0
24.	eP A	21 52 42.5	Dodecanese Islands 36.24 N 26.76 E
			H = 21 48 39.7 h = 160.1 km MB = 4.4
			D = 18.07 Az = 328 (NEIS)
25.	eP A	01 17 53	Burma - India Border Region
	epP A	18 16	25.91 N 95.06 E
			H = 01 07 10.9 h = 83.9 km MB = 4.9
			D = 66.39 Az = 316 (NEIS)
			h = 94 km
			PV A 1.2s 20.3nm M = 4.9
25.	LmH C	22 34.5	N.W. Irak - USSR Border Region
	LmV C	36.0	39.03 N 44.33 E
			H = 22 19 10.0 h = 33 km MB = 4.5
			D = 25.73 Az = 308 (NEIS)
			LmH C 24s 0.35/um M = 3.8
			LmV C 22 0.6/um 4.2
26.	ePKP2 A	02 47 30.5	Kermadec Islands 30.79 S 177.99 W
			H = 02 26 56 h = 27 km MB = 5.4
			D = 158.90 Az = 343 (ISC)

Day	Phase	h m s	Remarks
26.	e A	08 44 35	Greece 38.93 N 20.17 E
			H = 08 41 27.3 h = 33 km MB = 4.5
			D = 13.18 Az = 335 (NEIS)
26.	eP A	14 59 13	Alaska Peninsula 55.24 N 159.48 W
			H = 14 47 38.1 h = 40 km MB=5.1 MS=4.0
			D = 74.22 Az = 6 (NEIS)
26.	e(P) A	19 47 19	South Atlantic Ridge 40.57 S 16.71 W
	eS C	58 35	H = 19 33 55.9 h = 33 km MB=5.8 MS=5.8
	ePS C	59 40	D = 94.17 Az = 18 (NEIS)
	eSS C	20 04 40	
	LmV B	26.5	PV 1.8s 33.8nm M = 5.5
	LmH B	27.5	LmH B 18.5 1.1/um 5.4
			LmV B 20 1.6/um 5.5
27.	e(Sg) A	02 22 24	Poland (CLL)
	e A	22 30	
27.	eP A	04 34 30	Off East Coast of Honshu, Japan
			39.05 N 143.49 E
			H = 04 22 15.8 h = 33 km MB=5.0 MS=4.0
			D = 81.20 Az = 331 (NEIS)
27.	eP A	07 57 18	Greece - Albania Border Region
	LmH B	08 03.6	39.13 N 20.56 E
	LmV B	03.6	H = 07 54 13.3 h = 31.6 km MB=4.9 MS=4.9
			D = 13.13 Az = 334 (NEIS)
			PV A 1.1s 24.2nm M = 5.1
			LmH B 13 7.6/um 4.9
			LmV B 12 6.6/um
27.	ePn A	12 05 03.5	Yugoslavia 43.42 N 17.33 E
	eSg A	07 41	H = 12 03 03.6 h = 33.6 km
			D = 8.22 Az = 334 (NEIS)
			PnV A 1.0s 15.7nm M = 5.1

Day	Phase		h m s	Remarks
27.	eP	A	13 42 23.5	New Britain Region 4.45 S 152.79 E
				H = 13 23 29.8 h = 47.5 km MB=4.8 MS=4.2
				D = 123.64 Az = 331 (NEIS)
27.	ePg	A	15 41 41	France 44.84 N 6,84 E
	eSg	A	43 09	H = 15 39 30.0 h = 10 km
				D = 6.65 Az = 27 (NEIS)
28.	ePn	A	02 47 15	Central Italy 43.27 N 13.57 E
	iSn	A	48 35	H = 02 45 23.3 h = 33 km
				D = 7.50 Az = 350 (NEIS)
28.	eP	A	14 05 35	Chile - Bolivia Border Region
	ePP	AB	09 37	21.14 S 68.59 W
	e	C	10 15	H = 13 51 56.9 h = 88.9 km MB = 5.8
	eiSKS	C	16 00	D = 100.10 Az = 40 (NEIS)
	eiS	C	17 00	PV A 1.5s 25.1nm M = 5.6
	eSP	C	18 28	PPV A 1.8 74.3nm 6.0
	e	C	19 12	LmH B 18 1.4/um
	eSS	C	24 00	LmV B 18 2.0/um
	LmV	B	56.7	
	LmH	B	56.9	
28.	eP	A	18 12 18.5	Southern Nevada 37.10 N 116.04 W
	ePP	A	15 21	H = 18 00 00.1 h = 0 km MB = 5.5
				D = 81.24 Az = 31 (NEIS)
				Nuclear explosion RUDDER (ERDA)
				PV A 1.5s 50.3nm M = 5.3
29.	eP	A	14 48 52	Honshu, Japan 36.70 N 139.02 E
	e	A	48 58	H = 14 36 49.5 h = 147 km MB = 5.4
	epP	A	49 29	D = 81.49 Az = 329 (NEIS)
	ePP	A	51 56.5	h = 151 km
	e	A	52 08.5	PV A 1.7s 90.9nm M = 5.2
	eS	B	58 50	LmH B 16 1.0/um
	LmH	B	15 22.7	LmV B 12 1.3/um
	LmV	B	29.5	

Day	Phase		h m s	Remarks
29.	LmH	C	19 46.0	Sulawesi (Celebes) 1.93 S 120.28 E
	LmV	C	47.0	H = 18 46 22.6 h = 67 km MB = 5.0 (ISC)
				D = 103.2
				LmH C 26s 0.6/um
				LmV C 25 0.3/um
29.	eP	A	20 26 31	Adriatic Sea 41.05 N 18.91 E
	LmV	C	31.0	H = 20 23 45.6 h = 10 km
				D = 10.85 Az = 335 (NEIS)
30.	+eP	A	04 04 46	Eastern Kazakh SSR 49.80 N 78.14 E
	ePn	A	06 19.5	H = 03 56 57.5 h = 0 km MB=5.1 MS=4.2
				D = 41.26 Az = 298 (NEIS)
				PV A 0.7s 42.2nm M = 5.3
30.	LmV	C	04 42.3	LmV C 18s 0.3/um
30.	e(P)	A	05 33 42	Off East Coast of Kamchatka
				51.28 N 159.35 E
				H = 05 21 58.1 h = 23.7 km MB = 4.8
				D = 74.82 Az = 339 (NEIS)
				traces
30.	ePKIKP	A	13 28 34.5	South of Fiji Islands 25.22 S 179.65 E
	ePKHKP	A	28 41.5	H = 13 09 41.7 h = 501 km MB = 5.1
				D = 152.99 Az = 343 (NEIS)
30.	eP	A	15 16 15	Southern Greece 37.91 N 22.82 E
	LmH	C	22.4	H = 15 12 37.9 h = 33.7 km MB = 4.7
	LmV	C	23.4	D = 15.03 Az = 332 (NEIS)
				PV A 1.0s 25.6nm M = 4.5
				LmH C 13 1.0/um 4.2
				LmV C 12.5 0.9/um 4.3
30.	LmH	C	19 31.9	South of the Marianas 12.29 N 143.95 E
	LmV	C	32.6	H = 18 26 31 h = 32 km MB = 5.5 (ISC)
				D = 109.9
				LmH C 19.5s 2.4/um M = 5.8
				LmV C 18 2.4/um 5.8

Day	Phase		h m s	Remarks
30.	LmH	C	21 06.7	South of Marianas 12.32 N 143.98 E
	LmV	C	07.0	H = 20 01 13 h = 26 km MB = 5.3 (ISC)
				D = 109.9
				LmH C 18s 0.9/um M = 5.4
				LmV C 18 1.4/um 5.6
30.	eP	A	22 14 13	Kurile Islands 48.21 N 154.50 E
				H = 22 02 26.0 h = 40.8 km MB = 5.2
				D = 76.49 Az = 337 (NEIS)
30.	ePKP2	A	23 30 06	Kermadec Islands Region 28.15 S 176.40 W
				H = 23 09 45.7 h = 33 km
				D = 156.72 Az = 347 (NEIS)
				PKHKPV A 2.0s 51.3nm
31.	eP	A	09 28 54	Hokkaido, Japan Region 42.59 N 143.17 E
				H = 09 17 06.6 h = 107 km MB = 5.2
				D = 77.99 Az = 331 (NEIS)
				PV A 1.6s 38.5nm M = 4.9

ULRICH WENDLING

Messung der Bodenfeuchte mit Neutronensonden im Stationsnetz des Meteorologischen Dienstes der DDR

(Abhandlungen des Meteorologischen Dienstes der DDR)

1981. 42 Seiten — 21 Abbildungen — 19 Tabellen — 4° — 24,— M
Bestell-Nr. 7628866 (2023/126)

In dieser Arbeit sind die Untersuchungsergebnisse zur Anpassung der Neutronen-Bodenfeuchtesonden, die von der Industrie zur Feuchte- und Dichtemessung in beliebigen Schüttgütern entwickelt worden sind, an die Einsatzbedingungen im Meßnetz des Meteorologischen Dienstes dargestellt. Dabei war es erforderlich ein Kalibrierverfahren zu entwickeln, daß sich für den Einsatz der Sonden an einer größeren Zahl von Standorten mit möglichst unterschiedlichen Böden eignete. Zugleich mußten die zu erwartenden Meßfehler bei den Kalibrierbeziehungen, die inneren und äußeren Gerätefehler bei homogener Bremssubstanz und die zusätzlichen Fehler durch die Inhomogenität des Bodens erfaßt und abgeschätzt werden.
Mit diesem neuen radiometrischen Bodenfeuchtemeßverfahren, das international gebräuchlich ist, wurden Meßreihen der Bodenfeuchte untersucht und Rückschlüsse auf die Zuverlässigkeit des Verfahrens gezogen.

Bestellungen durch eine Buchhandlung erbeten

AKADEMIE-VERLAG
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L. I. MIROSCHNITSCHENKO

Kosmische Strahlung im interplanetaren Raum

(Übersetzung aus dem Russischen)
Bearbeitung der deutschen Ausgabe von ROBERT KNUTH
(Wissenschaftliche Taschenbücher, Reihe Mathematik/Physik)

1979. 206 Seiten — 64 Abbildungen — 3 Tabellen — kl. 8° — 12,50 M
Bestell-Nr. 7622253 (7244)

Die Untersuchung der zeitlichen und räumlichen Schwankungen der kosmischen Strahlung ist wichtig für das Verhältnis der elektromagnetischen Prozesse im entfernten Weltraum, in der Sonnenatmosphäre und in den erdnahen Bereichen. Der Autor beschreibt in diesem Taschenbuch die Entdeckungsgeschichte dieser Schwankungen, Methoden und Geräte zu ihrer Erforschung sowie die wichtigsten in einigen Jahrzehnten Forschungstätigkeit erhaltenen Ergebnisse.
Die modernen Vorstellungen über die Wechselwirkungen Sonne—Erde, über das interplanetare Magnetfeld, über die Beschleunigung und Ausbreitung von Teilchen verschiedener Energien sowie deren Eindringen in die Magnetosphäre und Atmosphäre der Erde werden in engem Zusammenhang mit den praktischen Erfordernissen des irdischen Funkverkehrs, der kosmischen Navigation und des Strahlenschutzes bei Raumflügen dargelegt.

Bestellungen durch eine Buchhandlung erbeten

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