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AKADEMIE DER WISSENSCHAFTEN DER DDR

Zentralinstitut für Physik der Erde (ZIPE)

Seismological Bulletin 1975 Station Moxa (MOX)

By

Johannes Stelzner, Dorothea Güth, and Joachim Weyrauch

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PREFACE

The annual Seismological Bulletin 1975 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 1975 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, our data for depth of focus are based on travel-time curves for deep focus earthquakes after GUTENBERG and RICHTER [5]

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

For abbreviations of seismological stations and other agencies in the international three letter code see the introductions to the Regional Catalogue of Earthquakes, Edinburgh and the Bulletins of the International Seismological Centre, Edinburgh.

Round brackets indicate uncertainties in interpretation of phase, 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 1975

T_s — seismometer free period

T_g — galvanometer free period

D_s — seismograph damping

D_g — galvanometer damping

V_0 — magnification factor

N — north-south component

E — east-west component

Z — vertical component

σ^2 — coupling coefficient

SKM — Seismograph Kirnos modified

SSJ — Seismic Station Apparatus Type Jena

VSJ — Vertical Seismograph Type Jena

Type of Seismograph		Comp.	T_s[s]	T_g[s]	D_s	D_g	V_0	σ^2
	VSJ-II	Z	0.23	0.065	0.33	1.2	300000	0.048
	VSJ-II	Z	1.0	1.0	0.5	0.5	47000	0.560
A	SKM-III	N	1.64	0.39	0.52	1.97	24000	0.047
		E	1.63	0.40	0.50	1.93	24700	0.047
		Z	1.64	0.39	0.52	1.96	23400	0.050
B	SSJ-I	N	20	1.15	0.51	8.70	1100	0.080
	(Parameters for	N	20	1.125	0.51	8.89	110	0.080
	N-, E- and Z-	E	20	1.15	0.50	8.73	1060	0.082
	comp. from	E	20	1.12	0.50	8.79	90	0.082
	Jan., 09)							
	(until	Z	20	1.21	0.50	8.26	900	0.072
	July, 16)	Z	20	1.11	0.50	9.01	110	0.072
	(from July, 17.)	Z	20	1.146	0.50	8.73	1020	0.091
		Z	20	1.175	0.50	8.51	130	0.091
C	SSJ-I/L	N	30	87.5	1.46	0.5	1050	0.103
		E	30	75.8	1.26	0.5	1070	0.056
		Z	30	87.5	1.46	0.5	1040	0.094
	STRAIN/L	N		85.4		0.70	65*	
	(coupled)	E		86.2		0.70	67*	
		N + E		86.2		0.70	42*	

*) for apparent wave velocity 5 km s^{-1}

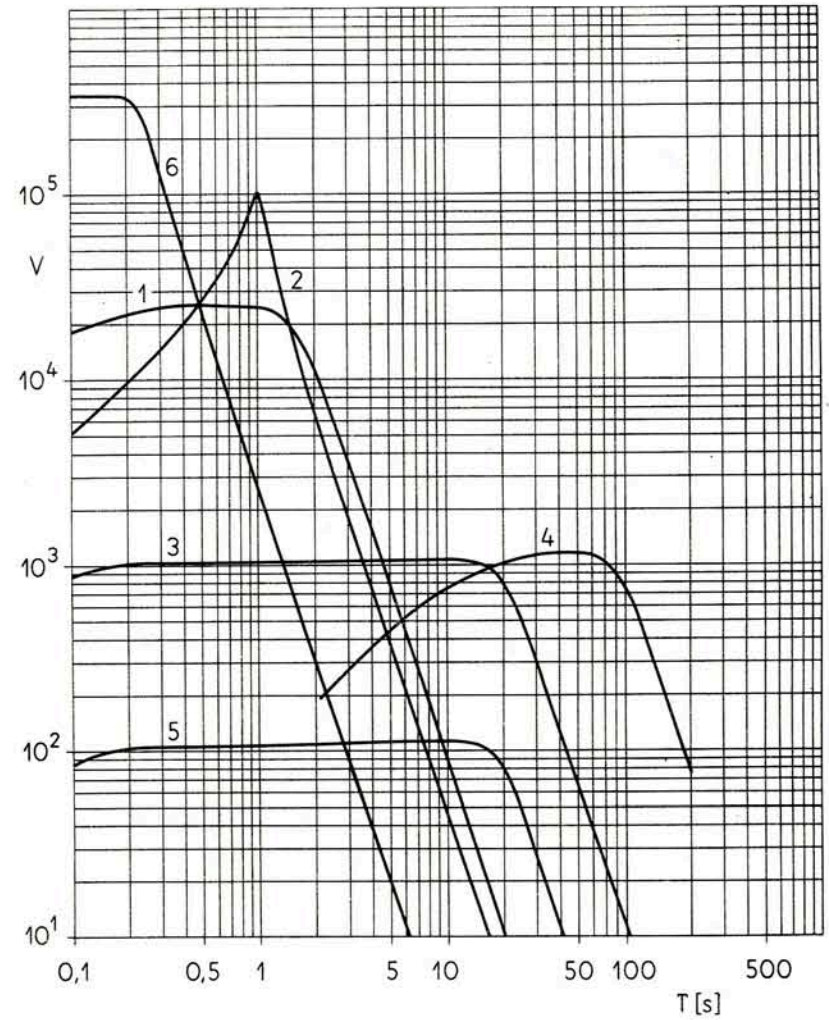

Fig. 1. Station Moxa, mean amplitude characteristics 1975

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

Seismological Recordings at Station Moxa 1975

Day	Phase		h m s	Remarks
1.	eP	A	00 34 59	<u>Jordan-Syria Region</u> 36.58 N 36.46 E
	Pm	A	35 24	H = 00 29 56.8 h = 15 km MB = 4.8 (NEIS)
	eS	C	39 04	D = 22.6
	LmH	B	43.1	PV A 1.8s 60.8nm M = 4.8
	LmV	B	45.5	PmV A 1.8 94.6nm 5.0
				LmH B 21 5.5/um 5.0
				LmV B 14 3.0/um 5.0
1.	eP	A	04 05 58	<u>Southern Alaska</u> 61.91 N 149.74 W
	ipP	A	06 15	H = 03 55 12.0 h = 66 km MB = 5.9
				D = 66.81 Az = 12.8 (NEIS)
				h = 66 km
				PV A 0.6s 46.0nm M = 5.6
				pPV A 1.5 216.1nm
1.	eP	A	04 34 20.5	
1.	eP	A	07 08 17.5	<u>Near Coast of Libya</u> 32.46 N 21.21 E
				H = 07 03 51.4 h = 39 km MB = 4.2
				D = 19.50 Az = 341.5 (NEIS)
				PV A 1.1s 16.1nm M = 4.2
1.	eX	A	20 43 34	<u>Banda Sea</u> 4.93 S 129.92 E
				H = 20 24 33.5 h = 20 km MB = 5.7
				D = 111.51 Az = 323.0 (NEIS)
				XV A 2.0s 34.2nm
2.	ePKIKP	A	06 05 42	<u>Dentrecasteaux Islands Region</u>
	e	A	05 56	9.50 S 155.09 E
				H = 05 46 33.5 h = 23 km MB = 5.4
				D = 129.13 Az = 330.8 (NEIS)
				PKIKPV A 2.0s 34.2nm
2.	ePKHKP	A	06 31 29	<u>Loyalty Islands Region</u> 22.60 S 170.5 E
				H = 06 11 50 h = 33 km
				D = 147.49 Az = 335 (ISC)

Day	Phase		h m s	Remarks
2.	eP	A	09 10 48	Kurile Islands 46.88 N 151.56 E
	e	A	10 53	H = 08 59 00.5 h = 52 km MB=5.7 (NEIS)
	ePP	AC	13 32	D = 77.0
	eS	C	20 29	PV A 2.0s 51.4nm M = 5.1
	eSS	C	25 34	LmH B 15 15.7/um
	eSSS	C	29 20	LmV B 16 12.0/um
	LmV	B	49.6	
	LmH	B	52.6	
2.	+iP	A	14 28 54.5	Mariana Islands Region 21.58 N 142.90 E
	ePP	A	32 52	H = 14 16 01.0 h = 313 km MB = 5.6
				D = 96.26 Az = 331.2 (NEIS)
				PV A 2.0s 102.6nm M = 5.7
				PPV A 2.2 207.2nm 5.8
2.	ePKP	A	17 34 26	Tonga Islands 15.28 S 173.26 W
				H = 17 14 52.9 h = normal MB = 5.1
				D = 144.51 Az = 354.7 (NEIS)
2.	+iP	A	19 43 11.7	Near East Coast of Kamchatka
	LmH	C	20 14.6	53.01 N 159.45 E
	LmV	C	14.6	H = 19 31 43.9 h = 47 km MB=5.5 MS=5.0
				D = 73.21 Az = 339.3 (NEIS)
				PV A 1.6s 225.0nm M = 5.9
				LmH C 12.5 5.9/um 6.1
				LmV C 13 3.8/um 5.9
2.	ePKHKP	A	22 49 42.5	Tonga Region 17.96 S 172.6 W
				H = 22 30 00
				D = 147.22 Az = 355 (ISC)
2.	eP	A	22 53 36	Samar, Philippine Islands
	e	A	53 49	12.85 N 125.48 E
				H = 22 40 15.5 h = normal MB=5.1 MS=4.7
				D = 94.63 Az = 324.3 (NEIS)
3.	ePKIKP	A	00 49 09	Fiji Islands Region 20.33 S 178.57 W
	ePKHKP	A	49 14	H = 00 30 28.0 h = 572 km MB = 5.2
	ePKP2	A	49 20	D = 148.69 Az = 347.5 (NEIS)

Day	Phase		h m s	Remarks
cont. 3.	epPKP	A	00 51 26	PKIKPV A 1.0s 25.6nm
				PKHKPV A 1.4 140.0nm
				PKP2V A 1.4 60.5nm
3.	e	A	01 58 50	Tonga Region 23.8 S 174.94 W
				H = 01 38 29.0 h = 33 km
				D = 152.70 Az = 351 (ISC)
3.	+eP	A	02 04 02	Dodecanese Islands 35.71 N 27.24 E
				H = 01 59 45.2 h = 49 km MB = 4.8
				D = 18.72 Az = 327.7 (NEIS)
				PV A 1.7s 127.0nm M = 4.8
4.	eP	A	00 32 20	Near East Coast of Kamchatka
				51.14 N 158.01 E
				H = 00 20 43.0 h = normal MB = 5.1
				D = 74.64 Az = 338.6 (NEIS)
				PV A 1.2s 20.3nm M = 5.0
4.	eP	A	12 38 41.5	Tsinghai Province, China
				38.53 N 97.51 E
				H = 12 28 42.3 h = normal MB = 5.4
				D = 59.07 Az = 312.2 (NEIS)
				PV A 1.7s 60.6nm M = 5.4
5.	ePKP	A	10 00 50	Tonga Islands 15.56 S 174.34 W
	LmV	C	11 02.5	H = 09 41 19.4 h = 71 km MB = 5.0
				D = 144.67 Az = 353.4 (NEIS)
				LmV C 23s 1.1/um
6.	eP	A	00 35 01	Jan Mayen Island Region
				71.52 N 5.21 W
				H = 00 30 02.9 h = normal MB = 4.5
				D = 22.30 Az = 150.9 (NEIS)
6.	+iP	A	19 22 19.5	Ryukyu Islands 29.23 N 130.34 E
	LmV	B	20 03.8	H = 19 09 52.5 h = 41 km MB=5.6 MS=5.8

Day	Phase		h m s	Remarks
cont.				
6.	LmH	B	20 04.5	D = 83.84 Az = 325.8 (NEIS)
				PV A 1.3s 96.1nm M = 5.7
				LmH B 15 3.0/um 5.8
				LmV B 16 4.0/um 5.9
6.	eP	A	23 23 51	Fox Islands, Aleutian Is.
				54.30 N 165.78 W
				H = 23 12 17.8 h = 102 km MB = 5.1
				D = 75.40 Az = 1.7 (NEIS)
				PV A 1.4s 34.9nm M = 5.0
7.	eP	A	01 58 07	Kurile Islands 46.16 N 150.86 E
				H = 01 46 24.6 h = 122 km MB = 4.7
				D = 77.34 Az = 334.8 (NEIS)
7.	eP	A	08 40 55	North of Ascension Island
				0.87 S 15.95 W
				H = 08 31 14.7 h = normal MB=5.0 MS=4.6
				D = 56.45 Az = 20.7 (NEIS)
				PV A 1.2s 16.3nm M = 4.9
8.	-eiP	A	02 11 56.5	Southern Sumatra 3.00 S 101.78 E
	epP	A	12 12.5	H = 01 58 55.1 h = 95 km MB = 6.0
	isP	A	12 19	D = 92.40 Az = 320.4 (NEIS)
	ePP	AC	15 37	h = 59 km
	eSKS	B	22 20	PV A 1.8s 155.4nm M = 6.0
	eS	B	22 50	PPV A 1.6 79.7nm 6.0
	eSP	C	24 00	LmV C 35 3.7/um
	eSSS	C	29 07	
	LmV	C	48.9	
8.	eP	A	19 10 30	Near East Coast of Honshu, Japan
				35.68 N 140.71 E
				H = 18 58 08.1 h = 56 km MB = 4.9
				D = 83.05 Az = 330.1 (NEIS)

Day	Phase		h m s	Remarks
8.	eP1	AB	19 36 00	Greece 38.29 N 22.69 E
	+iP2	A	36 09	H = 19 32 32.9 h = 18 km MB=5.4 MS=5.0
	LmH	B	42.3	D = 14.64 Az = 331.1 (NEIS)
	LmV	B	42.4	P1V A 0.9s 35.0nm M = 4.9
				P2V A 0.7 99.6nm 5.6
				LmH B 10 24.1/um 5.7
				LmV B 9 26.1/um 5.9
8.	eP	A	20 01 46	Greece 38.11 N 22.75 E
				H = 19 58 15.8 h = 37 km MB = 4.5
				D = 14.82 Az = 331.3 (NEIS)
8.	eP	A	20 41 09	
9.	eP	A	02 24 12.5	Southern Sumatra 4.33 S 102.95 E
				H = 02 11 04.3 h = 107 km MB = 5.4
				D = 94.17 Az = 320.3 (NEIS)
				PV A 1.4s 11.6nm M = 5.1
9.	ePKHKP	A	04 24 45	Fiji Islands Region 17.73 S 178.55 W
	ePKP2	A	24 47	H = 04 06 06.0 h = 551 km MB = 4.7
				D = 146.17 Az = 348.4 (NEIS)
9.	ePP	A	10 09 10	Banda Sea 5.09 S 129.92 E
	LmV	C	11 06.5	H = 09 49 39.6 h = 22 km MB = 5.4 (NEIS)
	LmH	C	07.2	D = 111.63
				LmH C 17s 0.3/um M = 5.0
				LmV C 18 0.4/um 5.1
9.	eP	A	18 57 56	Crete 34.76 N 24.09 E
	LmH	C	19 06.6	H = 18 53 44.0 h = 47 km MB = 4.6
	LmV	B	06.6	D = 18.29 Az = 334.0 (NEIS)
				PV A 1.0s 19.7nm M = 4.2
				LmH C 8 0.7/um 4.3
				LmV B 14 1.0/um 4.5
9.	ePKP	A	19 54 03	Samoa Region 15.80 S 172.2 W
				H = 19 34 28.2 h = 33 km MB = 4.5
				D = 145.11 Az = 356 (ISC)

Day	Phase		h m s	Remarks
9.	eP	A	23 15 12.5	Eastern Caucasus 42.89 N 46.99 E
	LmH	B	26.3	H = 23 09 46.6 h = 31 km MB = 5.2 (NEIS)
	LmV	B	28.5	D = 25.25
				PV A 2.0s 102.8nm M = 5.1
				LmH B 14 1.8/um 4.7
				LmV B 14 1.7/um 4.8
9.	eP	A	23 45 32.5	Eastern Caucasus 42.85 N 47.05 E
				H = 23 40 06.5 h = normal MB=4.9 MS=4.7
				D = 25.31 Az = 300.3 (NEIS)
9.	e	A	23 52 40	
10.	eP	A	01 14 48	Eastern Caucasus 42.86 N 47.12 E
				H = 01 09 21.7 h = normal MB = 4.9
				D = 25.35 Az = 300.3 (NEIS)
10.	eP	A	01 34 48	Eastern Caucasus 42.86 N 46.97 E
				H = 01 29 22.9 h = normal MB = 4.9
				D = 25.25 Az = 300.3 (NEIS)
				PV A 1.5s 30.2nm M = 4.7
10.	e	A	01 41 12	
10.	ePP	A	03 56 00	Crete 34.55 N 23.9 E
	e	A	56 16.5	H = 03 51 25 h = 0 km MB = 4.3
				D = 18.41 Az = 335 (ISC)
10.	LmH	B	11 28.5	Galapagos Islands Region
	LmV	B	28.6	2.5 N 95.5 W
				H = 10 24 10 h = 16 km MB = 5.0 (ISC)
				D = 98.8
				LmH B 18s 0.6/um M = 5.1
				LmV B 16 0.6/um 5.2
10.	e(PKP)	A	22 12 00.5	Samoa Region 15.89 S 172.26 W
				H = 21 52 21.2 h = 33 km MB = 4.6
				D = 145.19 Az = 356 (ISC)

Day	Phase		h m s	Remarks
11.	ePKHKP	A	06 14 11	Loyalty Islands Region 22.4 S 170.8 E
				H = 05 54 29 h = 33 km
				D = 147.46 Az = 335 (ISC)
11.	eP	A	12 15 18	Southern Iran 29.04 N 51.85 E
				H = 12 08 06.4 h = 27 km MB = 5.0
				D = 37.06 Az = 317.0 (NEIS)
				PV A 1.4s 16.3nm M = 4.7
11.	ePn	A	15 55 41	Northern Italy 46.48 N 10.60 E
	ePg	A	56 03.5	H = 15 54 37.0 h = 22 km MB = 4.0
	eSn	A	56 41	D = 4.23 Az = 8.8 (NEIS)
	eSg	A	57 06	LmH B 6s 1.1/um M = 3.6
	LmV	B	57.7	LmV B 7 0.9/um
	LmH	B	57.8	
11.	ePP	A	18 11 20	Crete 34.76 N 23.98 E
	e	A	12 04	H = 18 06 55 h = 42 km MB = 4.3
				D = 18.25 Az = 334
11.	eP	A	21 33 48.5	Yunnan Province, China 25.03 N 101.45 E
	LmH	B	22 02.7	H = 21 32 29.4 h = normal MB=4.8 MS=5.2
	LmV	B	09.7	D = 70.97 Az = 317.7 (NEIS)
				LmH B 19s 1.2/um M = 5.2
				LmV B 18 0.7/um 5.0
12.	eP1	A	04 44 52.5	Turkey 40.44 N 41.66 E
	eP2	A	44 56	H = 04 39 45.4 h = 40 km MB = 5.0
				D = 23.24 Az = 306.1 (NEIS)
				P2V A 1.6s 27.5nm M = 4.5
12.	ePKP	A	08 47 18	Tonga Islands 17.93 S 173.96 W
				H = 08 27 37.9 h = normal MB = 4.4
				D = 147.06 Az = 353.5 (NEIS)
12.	eP	A	13 57 21	Eastern Caucasus 42.82 N 47.16 E
				H = 13 51 53.66 h = normal MB = 4.6
				D = 25.39 Az = 300.3 (NEIS)
				traces

Day	Phase		h m s	Remarks
12.	eSg	A	15 13 44	
12.	+iPKP2	A	18 08 07.5	South of Kermadec Islands
	eSKP	A	11 48	33.51 S 178.09 W
	LmV	B	19 41.6	H = 17 47 23.5 h = 23 km MB=5.8 MS=6.0
	LmH	B	41.8	D = 161.45 Az = 340.3 (NEIS)
				PKP2V A 1.7s 103.0nm
				LmH B 17 1.9/um M = 5.9
				LmV B 18 2.9/um 6.2
12.	eP	A	21 34 54	Off Coast of California 32.80 N 117.97 W
				H = 21 22 14.9 h = 8 km MB = 5.1
				D = 85.75 Az = 29.5 (NEIS)
12.	eP	A	22 12 28	Kenai Peninsula, Alaska 59.59 N 149.16 W
				H = 22 01 25.7 h = 46 km MB = 4.7
				D = 69.02 Az = 13.0 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
13.	-iP	A	00 42 45.0	Southern Alaska 61.43 N 150.49 W
				H = 00 31 55.6 h = 66 km MB = 4.8
				D = 67.36 Az = 12.2 (NEIS)
				PV A 0.7s 38.3nm M = 5.4
13.	ePKIKP	A	01 07 41.5	Fiji Islands Region 20.14 S 178.49 W
	-iPKHKP	A	07 46	H = 00 49 06.6 h = 624 km MB = 5.1
	ePKP2	A	07 51.5	D = 148.53 Az = 347.6 (NEIS)
				PKIKPV A 1.2s 14.2nm
				PKHKPV A 1.4 121.0nm
13.	eP	A	01 31 56	Near East Coast of Honshu, Japan
				40.06 N 142.34 E
				H = 01 19 51.1 h = 60 km MB = 4.9
				D = 79.89 Az = 330.7 (NEIS)
13.	eP	A	04 47 44	North Atlantic Ridge 23.67 N 47.48 W
				H = 04 38 31.5 h = normal MB = 4.6
				D = 52.58 Az = 43.5 (NEIS)
				traces

Day	Phase		h m s	Remarks
13.	eP	A	08 04 02	Eastern Caucasus 42.98 N 46.99 E
	e	A	10 25	H = 07 58 35.7 h = normal MB = 4.7
				D = 25.21 Az = 300.1 (NEIS)
13.	e(PP)	A	08 46 52	Bulgaria 42.03 N 22.93 E
	e(SS)	A	49 13	H = 08 43 54.6 h = 37 km MB = 3.4
				D = 11.62 Az = 321.7 (NEIS)
13.	+eiP	A	09 31 03	Fox Island, Aleutian Is. 52.22 N 171.14 W
	LmV	C	10 00.7	H = 09 19 10.3 h = 42 km MB=5.7 MS=5.6
	LmH	C	10.7	D = 77.48 Az = 358.2 (NEIS)
				PV A 1.9s 212.0nm M = 5.8
				LmH C 21 3.0/um 5.6
				LmV C 28 2.4/um 5.4
13.	eP	A	19 41 12	Andreanof Islands, Aleutian Is.
	e	A	41 26	51.28 N 178.16 W
	e	A	41 38	H = 19 29 16.2 h = 46 km MB = 4.9
				D = 78.11 Az = 353.7 (NEIS)
13.	ePKP	A	22 00 57	New Hebrides Islands 19.23 S 168.66 E
	epPKP	A	01 09	H = 21 41 28.8 h = 46 km MB = 4.9
				D = 143.75 Az = 335.2 (NEIS)
				PKPV A 1.3s 17.5nm
14.	eP	A	04 25 50	Near East Coast of Honshu, Japan
				35.15 N 140.98 E
				H = 04 13 24.2 h = 42 km MB=5.0 MS=4.8
				D = 83.62 Az = 330.3 (NEIS)
				PV A 2.0s 59.9nm M = 5.3
14.	eP	A	10 58 52	South Atlantic Ridge 23.61 S 13.30 W
				H = 10 46 59.9 h = normal MB = 4.7
				D = 77.14 Az = 16.0 (NEIS)
				traces

Day	Phase		h m s	Remarks
14.	eP	A	14 22 40.5	Northern Sinkiang Prov., China
				43.62 N 86.87 E
				H = 14 13 49.8 h = normal MB = 5.0
				D = 49.62 Az = 306.1 (NEIS)
14.	ePKIKP	A	19 55 56	Banda Sea 4.97 S 130.01 E
	ePP	A	56 36	H = 19 37 19.4 h = 39 km MB = 5.9
	e	A	20 03 29	D = 111.59 Az = 323.0 (NEIS)
14.	ePKIKP	A	20 07 31	Banda Sea 4.96 S 129.99 E
	ePP	A	08(22)	H = 19 48 59.2 h = normal
	LmH	B	53.0	MB = 6.3 MS = 6.5 (NEIS) D = 112.2
	LmV	B	21 05.7	LmH B 18s 12.8/um M = 6.6
				LmV B 18 11.0/um 6.5
14.	eP	A	22 13 44	Iraq 35.45 N 44.78 E
				H = 22 07 52.5 h = 58 km MB = 5.1
				D = 28.31 Az = 312.8 (NEIS)
15.	e(P)	A	05 39 54	Ionian Sea 37.88 N 20.13 E
				H = 05 36 28.1 h = normal MB = 4.2
				D = 14.13 Az = 337.3 (NEIS)
15.	eP	A	11 45 39	Szechwan Province, China
	LmH	B	12 16.7	29.41 N 101.71 E
	LmV	B	18.9	H = 11 34 41.3 h = normal MB=5.7 MS=6.0
				D = 67.93 Az = 316.6 (NEIS)
				PV A 1.9s 303.0nm M = 6.1
				LmH B 16 7.0/um 6.0
				LmV B 15 7.0/um 6.1
15.	eP	A	19 11 42	Greenland Sea 74.19 N 8.52 E
				H = 19 06 33.0 h = normal MB = 5.0
				D = 23.67 Az = 175.1 (NEIS)
				PV A 2.0s 115.0nm M = 5.0
15.	eP	A	19 15 19	Greenland Sea 74.20 N 8.47 E
				H = 19 10 09.1 h = normal MB=5.1 MS=5.2
				D = 23.68 Az = 175.0 (NEIS)
				PV A 2.0s 103.0nm M = 5.0

Day	Phase		h m s	Remarks
15.	eP	A	20 43 38	Java 7.98 S 112.30 E
	e	A	47 41	H = 20 29 53.9 h = 141 km MB = 5.8
	ePP	A	47 51.5	D = 102.90 Az = 320.1 (NEIS)
16.	eP	A	00 12 49	Sicily 38.17 N 15.63 E
	Pm	A	13 15	H = 00 09 47.1 h = 21 km MB = 4.8
				D = 12.80 Az = 348.4 (NEIS)
				PmV A 1.1s 36.3nm
17.	ePKIKP	AB	09 50 06	Tonga Islands 17.91 S 174.58 W
	ePKHKP	A	50 08.5	H = 09 30 42.3 h = 153 km MB = 5.8
	ePKP2	A	50 11.5	D = 146.96 Az = 352.8 (NEIS)
	epPKP	B	50 44	h = 144 km
	epPKP	A	50 47.5	PKIKPV B 12s 7.5/um
	e	B	51 20	PKHKPV A 2.1 652.0
	ePP	C	53 40	LmH B 17 1.9/um
	e(SKSP)	C	10 03 36	LmV B 18 1.6/um
	e	C	13 16	
	LmH	B	59.8	
	LmV	B	11 00.2	
17.	ePP	A	10 47 06.5	Ceram Sea 2.94 S 126.13 E
	e	A	47 21.5	H = 10 28 09.2 h = normal MB=5.7 MS=5.5
	e	A	47 31	D = 107.64 Az = 322.6 (NEIS)
17.	eP	A	15 20 39.5	Burma-India Border Region
				22.70 N 93.90 E
				H = 15 09 41.8 h = normal MB = 4.6
				D = 67.99 Az = 317.1 (NEIS)
18.	eP	A	00 24 51	Southern Sinkiang Prov., China
				39.03 N 74.31 E
				H = 00 16 44.1 h = 86 km MB = 4.8
				D = 44.68 Az = 306.4 (NEIS)
				traces
18.	eP	A	08 08 50.5	Dodekanese Islands 35.2 N 27.1 E
				H = 08 04 23 h = 0 km
				D = 19.08 Az = 329 (ISC)

Day	Phase		h m s	Remarks
18.	ePKHKP	A	09 11 06	Tonga Islands 20.52 S 173.76 W
				H = 08 51 17.8 h = normal MB=5.6 MS=4.9
				D = 149.64 Az = 353.2 (NEIS)
				PKHKPV A 1.6s 79.6nm
18.	e	A	12 38 32	
18.	eP	A	19 12 01	Chagos Archipelago Region
				5.43 S 68.49 E
				H = 19 00 25.5 h = normal MB = 4.9
				D = 74.10 Az = 326.3 (NEIS)
18.	ePg	A	20 10 29	Austria 47.6 N 16.1 E
	iSg	A	11 21	H = 20 09 15 h = 0 km
				D = 4.24 Az = 317 (ISC)
19.	iPg	A	07 27 36.5	Vogtland, German Democratic Republic
	iSg	A	27 44.3	50.3 N 12.5 E
				H = 07 27 25 h = 0 km
				D = 0.70 Az = 287 (ISC)
19.	eP	A	08 09 27	Kashmir- Tibet Border Region
				32.44 N 78.60 E
				H = 08 00 24.3 h = 60 km MB = 5.3
				D = 51.53 Az = 311.5 (NEIS)
				PV A 1.4s 23.3nm M = 5.0
19.	eP	AB	08 11 07	Kashmir-Tibet Border Region
	Pm	A	11 21	32.46 N 78.43 E
	ePP	B	13 11	H = 08 02 02.5 h = normal MB=6.2 MS=6.8
	iS	B	18 30	D = 51.41 Az = 311.5 (NEIS)
	eSS	B	22 00	PV A 1.1s 504.0nm M = 6.4
	LmH	B	31.6	PmV A 1.7 1545.5nm 7.0
	LmV	B	35.8	PV B 15 22.8/um 6.9
	eP'P'	A	41 44	SH B 11.5 20.0/um 7.0
				LmH B 16 120.0/um 7.0
				LmV B 14 102.3/um 7.1

Day	Phase		h m s	Remarks
19.	+iP	A	08 21 15	Kashmir-Tibet Border Region
				31.95 N 78.52 E
				H = 08 12 08.1 h = normal MB = 6.0
				D = 51.80 Az = 311.8 (NEIS)
				PV A 2.2s 349.0nm M = 5.9
19.	eP	A	13 13 43	Kashmir-Tibet Border Region
				32.13 N 78.64 E
				H = 13 04 36.6 h = normal MB = 5.0
				D = 51.76 Az = 311.7 (NEIS)
20.	eP	A	10 52 14.5	Norwegian Sea 71.82 N 14.56 E
				H = 10 47 29.9 h = normal MB = 5.1
				D = 21.29 Az = 185.2 (NEIS)
				PV A 1.8s 88.0nm M = 4.9
20.	eP	A	11 15 56.5	Kashmir-Tibet Border Region
	e	A	16 11	32.50 N 78.57 E
				H = 11 06 53.9 h = 48 km MB = 4.8
				D = 51.46 Az = 311.5 (NEIS)
20.	+iP	A	17 43 39.5	Near East Coast of Honshu, Japan
	LmH	B	18 25.5	34.99 N 141.19 E
	LmV	B	27.0	H = 17 31 10.6 h = 28 km MB=5.9 MS=5.7
				D = 83.85 Az = 330.4 (NEIS)
				PV A 1.9s 227.3nm M = 6.0
				LmH B 15 7.0/um 6.2
				LmV B 14 6.1/um 6.2
20.	e	A	18 01 55.5	
20.	ePKHKP	A	19 17 34	Tonga Islands 21.76 S 173.79 W
	ePKP2	A	17 44	H = 18 57 44.0 h = 33 km MB = 5.2
				D = 150.86 Az = 352.9 (NEIS)
				PKHKPV A 1.6s 44.0nm
21.	eP	A	06 52 57.5	Fox Islands, Aleutian Is.
				52.51 N 168.61 W
				H = 06 41 05.1 h = normal MB = 4.6
				D = 77.22 Az = 359.9 (NEIS)

Day	Phase		h m s	Remarks
21.	eP	A	21 59 21.5	Alaska Peninsula 55.78 N 158.01 W
				H = 21 47 49.4 h = 35 km MB = 4.9
				D = 73.60 Az = 6.9 (NEIS)
22.	LmH	B	05 26.6	Kyushu 32.96 N 131.08 E
	LmV	B	33.9	H = 04 40 52 h = 11 km MB = 4.2 (ISC)
				D = 81.1
				LmH B 16s 3.0/um M = 5.8
				LmV B 16 1.9/um 5.6
22.	ePKHKP	A	05 43 57	South of Fiji Islands 24.17 S 177.09 W
	e	A	44 03	H = 05 24 18.5 h = 166 km MB = 4.4
	ePKP2	A	44 07	D = 152.72 Az = 347.9 (NEIS)
				PKHKPV A 1.5s 20.1nm
22.	eP1	A	08 42 21	Andaman Islands Region 14.65 N 96.14 E
	eP2	A	42 26	H = 08 30 37.1 h = 15 km MB = 5.5
	e	A	43 30.5	D = 75.37 Az = 319.1 (NEIS)
	LmH	C	09 15.2	P2V A 1.6s 76.9nm M = 5.5
	LmV	C	20.6	LmH C 30 1.0/um 5.1
				LmV C 21 0.7/um 5.1
23.	ePKP	A	03 13 29.5	Tonga Islands 17.81 S 174.71 W
				H = 02 53 56.8 h = 97 km MB = 4.4
				D = 146.85 Az = 352.6 (NEIS)
23.	eP	A	14 31 35.5	Kyushu, Japan 33.03 N 131.09 E
	ePP	A	34 38	H = 14 19 14.9 h = 10 km MB=5.2 MS=5.8
	LmH	B	15 05.1	D = 81.08 Az = 325.9 (NEIS)
	LmV	B	11.2	LmH B 14s 12.1/um M = 6.4
				LmV B 18 13.2/um 6.4
24.	eP	A	16 35 43	Albania 41.19 N 19.67 E
				H = 16 33 03.2 h = normal MB = 4.6
				D = 10.99 Az = 332.1 (NEIS)
25.	eP	A	00 19 52.5	Crete 34.61 N 24.13 E
				H = 00 15 33.7 h = normal MB = 4.3
				D = 18.44 Az = 334.1 (NEIS)

Day	Phase		h m s	Remarks
25.	+eiP	AB	02 21 10	Panama-Colombia Border Region
	iS	C	31 36	7.22 N 77.77 W
	iSS	C	37 35	H = 02 08 41.5 h = 36 km MB=6.1 MS=6.5
	i	C	43 32	D = 84.09 Az = 39.8 (NEIS)
	i	C	46 50	PV A 2.6s 970.0nm M = 6.5
	LmH	B	51.4	PV B 14 7.9/um 6.7
	LmV	B	03 05.9	SH B 18.5 13.2/um 6.7
				LmH B 24.5 23.6/um 6.5
				LmV B 17.5 13.2/um 6.4
25.	eP	A	03 37 38.5	Panama-Colombia Border Region
				7.07 N 77.92 W
				H = 03 25 08.4 h = normal MB = 5.0
				D = 84.29 Az = 39.8 (NEIS)
25.	eP	A	14 17 27	Greece 37.95 N 19.97 E
	e	A	17 33.5	H = 14 14 09.3 h = normal MB = 4.5
				D = 14.02 Az = 337.6 (NEIS)
				PV A 0.7s 13.4nm M = 4.8
25.	eP	A	17 16 34.5	Fox Islands, Aleutian Is.
				51.07 N 170.98 W
				H = 17 04 34.0 h = normal MB = 4.9
				D = 78.64 Az = 358.3 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
25.	ePg	A	23 53 35	Svabian Yura Region, Fed. Rep. of Germany
	eSg	A	54 11	48.29 N 9.07 E
				H = 23 52 40.2 h = 19 km (NEIS)
				D = 2.89
26.	+eP	A	05 34 50.5	Southern Greece 36.98 N 24.51 E
	LmV	B	42.9	H = 05 30 54.6 h = 48 km MB = 4.8
	LmH	B	43.0	D = 16.50 Az = 330.0 (NEIS)
				PV A 1.3s 30.6nm M = 4.3
				LmH B 14.5 1.9/um 4.4
				LmV B 16 1.6/um 4.5

Day	Phase		h m s	Remarks
26.	ePKHKP	A	09 21 22	Fiji Islands Region 19.40 S 177.49 W H = 09 02 37.6 h = 551 km MB = 4.3 D = 147.99 Az = 349 (ISC)
26.	eP	A	19 38 58	Unimak Island Region 53.75 N 163.68 W H = 19 27 13.1 h = normal MB = 4.3 D = 75.91 Az = 3.1 (NEIS)
27.	ePKHKP	A	03 21 57.5	Fiji Region 21.93 S 179.37 W
	ePKP2	A	22 06	H = 03 03 14.9 h = 619 km MB = 4.8 D = 150.07 Az = 346 (ISC)
27.	eP	A	05 03 44	Unimak Island Region 53.73 N 163.56 W H = 04 51 58.1 h = normal MB = 4.3 D = 75.92 Az = 3.2 (NEIS) traces
27.	eP	A	08 19 23	Kashmir-Tibet Border Region 32.46 N 78.73 E H = 08 10 18.7 h = normal MB = 5.0 D = 51.59 Az = 311.5 (NEIS) PV A 1.0s 11.8nm M = 4.8
27.	eX	A	15 28 44	Sumba Island Region 9.91 S 119.35 E
	LmH	B	16 19.7	H = 15 10 01.8 h = normal MB=5.5 MS=5.7
	LmV	B	25.5	D = 108.84 Az = 320.2 (NEIS) XV A 2.0s 25.6nm LmH B 20 1.3/um M = 5.5 LmV B 20 1.6/um 5.6
27.	ePKIKP	A	18 56 16	South Shetland Islands 61.99 S 56.05 W
	e	A	56 23	H = 18 37 17.9 h = normal MB = 5.4 D = 124.44 Az = 45.6 (NEIS)
27.	ePKIKP	A	20 28 46	New Ireland Region 4.71 S 153.11 E H = 20 09 56.2 h = 82 km MB = 4.5 D = 124.02 Az = 331.4 (NEIS) traces

Day	Phase		h m s	Remarks
28.	eP	A	12 04 49	Komandorsky Islands Region
	LmV	C	36.6	56.13 N 164.61 E
	LmH	B	37.7	H = 11 53 30.7 h = normal MB=5.2 MS=5.2 D = 71.26 Az = 342.2 (NEIS) PV A 1.2s 24.4nm M = 5.1 LmH B 16 1.5/um 5.4 LmV C 22 0.8/um 5.0
28.	eP	A	21 17 31	Cyprus 34.62 N 33.69 E H = 21 12 33.1 h = 45 km MB = 4.7 D = 22.68 Az = 321.6 (NEIS) PV A 1.4s 20.9nm M = 4.4
31.	ePKP	A	11 04 46.5	Tonga Islands 15.35 S 175.15 W H = 10 45 39.7 h = 251 km MB = 4.5 D = 144.37 Az = 352.6 (NEIS) PKPV A 1.2s 16.3nm
31.	eP	A	12 48 46.5	Nepal 28.10 N 84.73 E H = 12 38 52.4 h = normal MB = 5.4 D = 58.35 Az = 314.3 (NEIS)
31.	LmH	B	17 14.5	Off Coast of Michoacan, Mexico
	LmV	B	14.5	15.46 N 104.56 W H = 16 14 31.8 h = 44 km MB = 5.1 (ISC) D = 80.1 LmH B 16s 0.8/um M = 5.2 LmV B 15 1.0/um 5.3

Day	Phase		h m s	Remarks
1.	eP	A	06 04 11.5	Unimak Island Region 53.49 N 163.30 W H = 05 52 22.2 h = 18 km MB = 4.6 D = 76.15 Az = 3.3 (NEIS) PV A 1.0s 19.7nm M = 5.1
1.	ePKHKP	A	09 18 27	Fiji Islands Region 20.53 S 176.33 W
	ePKP2	A	18 32.5	H = 08 58 55.5 h = 146 km MB = 4.9 D = 149.30 Az = 350.1 (NEIS) PKHKPV A 1.8s 60.8nm
1.	eP	A	14 29 37	Tibet 32.49 N 93.39 E H = 14 19 23.8 h = normal MB = 4.9 D = 60.71 Az = 313.7 (NEIS)
1.	eP	A	15 33 05.5	Mindoro, Philippine Islands 13.04 N 120.23 E H = 15 19 50.5 h = normal MB = 5.0 D = 91.44 Az = 322.9 (NEIS)
1.	eP	A	18 25 08	Northwestern Kashmir 35.97 N 72.98 E H = 18 16 50.8 h = 70 km MB = 4.9 D = 45.70 Az = 308.7 (NEIS)
1.	ePKIKP	A	20 01 33	New Ireland Region 4.76 S 153.17 E H = 19 42 37.8 h = 57 km MB = 5.0 D = 124.10 Az = 331.4 (NEIS)
2.	eP	A	07 36 36.5	Near Islands, Aleutian Is. 53.05 N 173.45 E H = 07 24 53.3 h = 25 km MB=5.9 MS=5.5 D = 75.55 Az = 348.2 (NEIS) PV A 2.0s 162.4nm M = 5.7
2.	eP	A	07 55 31	USSR-Mongolia Border Region 50.47 N 90.95 E H = 07 46 52.8 h = normal MB = 4.8 D = 48.05 Az = 302.7 (NEIS) LmH B 16s 3.1/um M = 5.4 LmV B 13.5 2.6/um 5.5
	LmH	B	08 13.5	
	LmV	B	17.7	

Day	Phase		h m s	Remarks
2.	eP	A	07 55 31	USSR-Mongolia Border Region 50.47 N 90.95 E H = 07 46 52.8 h = normal MB = 4.8 D = 48.05 Az = 302.7 (NEIS) LmH B 16s 3.1/um M = 5.4 LmV B 13.5 2.6/um 5.5
	LmH	B	08 13.5	
	LmV	B	17.7	
2.	eP	AB	08 55 25	Near Islands, Aleutian Is. 53.11 N 173.50 E H = 08 43 39.1 h = 10 km MB=6.1 MS=7.6 D = 75.49 Az = 348.2 (NEIS) PV A 2.2s 153.0nm M = 5.7 LmH B 16 92.4/um 7.2 LmV B 15.5 97.0/um 7.3
	eS	B	09 05 14	
	eP'P'	A	22 41	
	LmH	B	37.1	
	LmV	B	39.8	
2.	ePKP	A	16 10 16	Fiji Islands Region 17.31 S 177.28 W H = 15 51 26.7 h = 461 km MB = 5.2 D = 145.99 Az = 349.9 (NEIS) PV A 1.2s 85.4nm
2.	+iP	A	16 29 11.7	Kurile Islands 44.63 N 146.93 E H = 16 17 23.7 h = 80 km MB = 5.5 D = 77.49 Az = 332.7 (NEIS) PV A 1.5s 191.0nm M = 5.8
2.	eP	A	19 23 14.5	Kashmir-Tibet Border Region 32.60 N 78.53 E H = 19 14 09.7 h = 21 km MB = 5.1 D = 51.38 Az = 311.4 (NEIS) PV A 2.1s 67.0nm M = 5.2
2.	eP	A	21 15 14	Greece 40.57 N 21.40 E H = 21 12 19.2 h = normal MB = 4.7 D = 12.17 Az = 329.1 (NEIS)
	e	A	15 23	
3.	eP	A	01 15 43.5	Mexico-Guatemala Border Region 15.68 N 91.72 W H = 01 03 26.6 h = 226 km MB = 5.3 D = 86.23 Az = 38 (ISC)
	epP	A	16 38	

Day	Phase		h m s	Remarks
cont. 3.				h = 223 km PV A 1.9s 75.7nm pPV A 1.6 71.5nm
3.	eP	A	06 18 27	South of Panama 7.58 N 82.46 W H = 06 05 43.4 h = normal MB=4.8 MS=4.6 D = 86.78 Az = 39.5 (NEIS)
3.	e(pP)	A	08 19 06	Kurile Islands Region 48.28 N 157.15 E H = 08 07 04.0 h = 66 km MB = 5.0 D = 77.10 Az = 338.3 (NEIS) (h = 54 km)
3.	eP	A	14 19 54	Tadzhik-Sinkiang Border Region 39.38 N 72.97 E H = 14 11 51.1 h = normal MB = 4.6 D = 43.63 Az = 305.9 (NEIS)
4.	ePKP	A	02 08 08.5	South of Fiji 21.3 S 179.7 E H = 01 48 24.6 h = 0 km MB = 4.8 D = 149.27 Az = 345 (ISC)
4.	eP	A	06 37 03.5	Off East Coast of Kamchatka 51.55 N 159.61 E H = 06 25 26.1 h = normal MB = 4.7 D = 74.62 Az = 339.5 (NEIS) PV A 1.6s 22.0nm M = 4.9
4.	ePKHKP	A	09 30 51	Fiji Islands Region 20.64 S 178.81 W H = 09 12 10.6 h = 619 km MB = 4.6 D = 148.95 Az = 347.1 (NEIS) PKHKPV A 1.2s 12.2nm
	ePKP2	A	30 57.5	
4.	-eP	A	11 47 23.5	Northeastern China 40.64 N 122.58 E
	ePP	B	50 04	H = 11 36 07.5 h = 33 km MB=6.4 MS=7.4
	ePPP	B	51 48	D = 70.92 Az = 321.0 (NEIS)
	eS	B	56 36	PV A 1.8s 840.0nm M = 6.5
	eSS	B	12 01 18	PV B 8 16.0/um 7.1
	eSSS	St	04 30	LmH B 17 1161.0/um 8.2

Day	Phase		h m s	Remarks
cont. 4.	LmH	B	12 16.5	LmV B 15 634.0/um M = 8.1
	LmV	B	22.3	St - Strain/L
4.	eP	A	13 43 57.5	Northeastern China 40.66 N 122.44 E H = 13 32 37.7 h = normal MB = 4.9 D = 70.84 Az = 321.0 (NEIS) PV A 2.0s 51.3nm M = 5.2
4.	eP	A	13 51 28.5	Northeastern China 40.62 N 122.45 E H = 13 40 11.7 h = normal MB = 4.8 D = 70.97 Az = 321.1 (NEIS) PV traces
4.	eP	A	20 32 38.5	Northeast of Taiwan 25.35 N 123.12 E H = 20 20 30.6 h = 179 km MB = 5.0 D = 83.27 Az = 323.4 (NEIS) PV A 2.2s 65.5nm M = 5.0
5.	ePKP2	A	02 54 52	Easter Island Cordillera 55.57 S 119.01 W H = 02 34 53.0 h = normal MB = 4.8 D = 150.47 Az = 78.7 (NEIS)
5.	e	A	04 26 16	
5.	LmH	B	16 33.2	North Eastern China 40.82 N 122.64 E H = 15 52 57 h = 25 km MB = 4.5 (ISC) D = 70.7 LmH B 18s 1.4/um M = 5.3
5.	LmH	C	18 48.7	West Irian Region 3.58 S 131.22 E
	LmV	C	52.7	H = 17 46 08.8 h = 50 km MB = 5.3 (ISC) D = 111.2 LmH C 20s 0.7/um M = 5.3 LmV C 22 0.7/um 5.2
5.	eP	A	21 54 58.5	Northeastern China 40.73 N 122.57 E
	LmH	B	22 24.0	H = 21 43 43.2 h = normal MB = 4.9 D = 70.84 Az = 321.0 (NEIS)

Day	Phase		h m s	Remarks
cont. 5.	LmV	B	22 29.2	PV A traces LmH B 16.5s 1.0/um M = 5.2 LmV B 16 0.6/um 5.0
5.	eP	A	23 55 11	Off East Coast of Kamchatka 51.53 N 159.66 E H = 23 43 32.9 h = 31 km MB=5.0 MS=4.6 D = 74.65 Az = 339.6 (NEIS) PV A 1.1s 12.1nm M = 4.8
6.	e(P)	A	04 36 17	Northeastern China 40.82 N 122.30 E H = 04 24 56.5 h = normal MB = 5.1 D = 70.64 Az = 320.9 (NEIS) LmH B 17.5s 6.7/um M = 6.0 LmV B 14 1.6/um 5.5
	e	A	36 23.5	
	e	A	36 33.5	
	LmH	B	05 05.2	
	LmV	B	09.4	
6.	eP	A	18 02 15.5	Norwegian Sea 74.39 N 9.98 E H = 17 57 05.0 h = normal MB=4.7 MS=4.8 D = 23.84 Az = 177.4 (NEIS) PV A 2.0s 51.3nm M = 4.7
	e	A	02 20.5	
6.	eP	A	21 36 29	East of Lake Baikal 55.91 N 117.60 E H = 21 26 36.6 h = normal MB = 4.6 D = 57.41 Az = 313.4 (NEIS) PV A 1.0s 15.8nm M = 5.0
7.	ePKIKP	AB	05 10 42	New Britain Region 7.29 S 149.51 E H = 04 51 44.0 h = normal MB=6.3 MS=6.4 D = 124.46 Az = 328.8 (NEIS) PPV B 8.5s 3.8/um M = 6.9 LmH B 23 20.9/um 6.7 LmV B 22 22.0/um 6.8
	ePP	B	12 25	
	ePKKP	A	20 51	
	ePS	B	22 20	
	LmH	B	06 04.7	
	LmV	B	04.7	
7.	eP	A	16 53 35	Near East Coast of Honshu, Japan 35.74 N 139.97 E H = 16 41 15.6 h = 56 km MB = 5.3 D = 82.70 Az = 329.8 (NEIS) PV A 1.5s 20.1nm M = 4.9
	ePP	A	56 43	

Day	Phase		h m s	Remarks
7.	e	A	20 06 16	Loyalty Islands Region 22.54 S 172.69 E H = 19 46 30.7 h = 105 km MB = 4.4 D = 148.28 Az = 336.9 (NEIS)
	epPKP	A	06 23	
8.	ePKP	A	03 30 47	Tonga Islands 16.98 S 174.60 W H = 03 11 25.8 h = 169 km MB = 5.1 D = 146.05 Az = 352.9 (NEIS) PKPV A 1.6s 165.0nm
	esPKP	A	31 45	
8.	ePg	A	04 35 34	Northern Italy 44.4 N 9.6 E H = 04 33 24 (BCIS) D = 6.28
	eSn	A	36 08.5	
8.	e	A	08 24 27	Rumania 45.32 N 26.00 E H = 08 21 18.0 h = 23 km MB = 4.6 D = 11.01 Az = 304.1 (NEIS)
	e(S)	A	25 53	
8.	epPKP	A	09 22 31	Loyalty Islands Region 22.87 S 172.98 E H = 09 02 43.0 h = 57 km MB = 4.6 D = 148.69 Az = 337.0 (NEIS)
8.	ePKP	A	11 50 30.5	Tonga Islands 15.38 S 173.50 W H = 11 31 00.7 h = 72 km MB = 5.0 D = 144.58 Az = 354.4 (NEIS) PKPV A 1.5s 25.2nm
	e	A	50 42.5	
	e	A	50 54	
8.	ePKP	A	22 26 44.5	Samoa Islands Region 16.05 S 172.82 W H = 22 07 07.2 h = normal MB=4.7 MS=4.8 D = 145.31 Az = 355.0 (NEIS) PKPV A 1.5s 17.6nm
8.	eP	A	24 00 16.5	Fox Islands, Aleutian Is. 52.62 N 169.18 W H = 23 48 25.5 h = normal MB = 4.5 D = 77.11 Az = 359.5 (NEIS)
9.	LmH	B	05 42.7	Java 6.80 S 106.60 E H = 04 45 25.1 h = 27 km MB = 5.1 (ISC) D = 98.4
	LmV	B	52.9	

Day	Phase		h m s	Remarks
cont. 9.				LmH B 20s 1.8/um M = 5.5
				LmV B 16 1.3/um 5.5
9.	ePKP	A	05 57 46.5	Fiji Islands Region 18.02 S 177.84 W
	e	A	57 58	H = 05 38 55.2 h = 448 km MB = 4.8
	e	A	58 04.5	D = 146.58 Az = 349.1 (NEIS)
				PKPV A 1.6s 22.0nm
9.	ePKIKP	A	07 28 18	Kermadec Islands 29.76 S 177.70 W
	ePKP2	A	28 50	H = 07 08 21.8 h = 24 km MB=5.3 MS=5.0
				D = 157.99 Az = 344.0 (NEIS)
				PKIKPV A traces
				PKP2V A 1.0s 21.6nm
9.	eP	A	09 24 57	Fox Islands, Aleutian Is.
				52.05 N 170.99 W
				H = 09 13 04.0 h = 44 km MB = 4.4
				D = 77.66 Az = 358.3 (NEIS)
9.	eP	A	11 13 06	Near Islands, Aleutian Is.
	e(S)	B	22 50	52.82 N 174.49 E
	LmH	B	50.1	H = 11 01 19.4 h = 14 km MB=5.4 MS=5.4
	LmV	B	54.9	D = 75.90 Az = 348.9 (NEIS)
				PV A 1.5s 17.6nm M = 4.9
				LmH B 17 2.1/um 5.5
				LmV B 15 1.7/um 5.5
9.	eP	A	12 39 51	Aegean Sea 38.80 N 26.10 E
				H = 12 36 05.0 h = 31 km MB = 4.6
				D = 15.66 Az = 323.8 (NEIS)
9.	eP	A	14 44 09	Carlsberg Ridge 3.84 N 64.09 E
				H = 14 33 36.0 h = normal MB = 5.1
				D = 64.01 Az = 325.8 (NEIS)
				PV A 2.2s 49.0nm M = 5.2

Day	Phase		h m s	Remarks
10.	ePKP	A	06 11 04	Tonga Islands 15.59 S 174.47 W
	epPKP	A	11 49	H = 05 51 44.4 h = 150 km MB = 4.8
				D = 144.69 Az = 353.3 (NEIS)
				h = 172 km
				PKPV A 1.4s 41.9nm
10.	eP1	A	19 15 58	North Atlantic Ridge 46.51 N 27.48 W
	eP2	A	16 05.5	H = 19 10 27.0 h = normal MB=4.8 MS=5.1
	eS	B	20 34	D = 25.98 Az = 66.4 (NEIS)
	LmH	B	25.9	PV A 1.8s 40.5nm M = 4.7
	LmV	B	26.0	LmH B 14 2.6/um 4.9
				LmV B 17 2.2/um 4.9
10.	eP	A	20 32 24	Ryukyu Islands 27.95 N 129.49 E
	LmV	B	21 14.6	H = 20 19 51.1 h = normal MB = 5.1
	LmH	B	14.7	D = 84.48 Az = 325.6 (NEIS)
				LmH B 15.5s 1.4/um M = 5.5
				LmV B 16 1.8/um 5.6
10.	eP	A	21 24 07	Carlsberg Ridge 3.84 N 64.04 E
				H = 21 13 34.4 h = normal MB = 4.9
				D = 63.98 Az = 325.8 (NEIS)
				PV A traces
11.	eP	A	11 30 38	Central Siberia 66.8 N 119.7 E
				H = 11 21 37.0 h = 33 km MB = 4.3
				D = 50.97 Az = 309 (ISC)
11.	eP	A	14 42 21	Alaska Peninsula 54.45 N 161.00 W
				H = 14 30 38.6 h = 21 km MB = 4.6
				D = 75.09 Az = 4.9 (NEIS)
11.	eP	A	20 38 38.5	Southern Sinkiang Prov., China
	LmH	B	58.2	38.53 N 75.37 E
	LmV	B	59.1	H = 20 30 19.1 h = normal MB = 5.2
				D = 45.64 Az = 307.0 (NEIS)
				PV A 1.6s 44.0nm M = 5.1
				LmH B 17.5 2.1/um 5.1

Day	Phase		h m s	Remarks
11.	eP	A	22 09 20.5	Southern Bolivia 20.72 S 62.94 W
	epP	A	11 28	H = 21 56 49.5 h = 562 km MB = 5.3
	ePP	A	13 16	D = 96.46 Az = 38.1 (NEIS)
				h = 583 km
				PV A 1.4s 23.3nm M = 5.3
				PPV A 1.6 22.0nm 5.2
11.	eP	A	22 12 29	Southern Sinkiang Prov., China
	e	A	12 34.5	38.56 N 75.25 E
	ePP	A	14 20	H = 22 04 11.3 h = normal MB = 5.0
				D = 45.54 Az = 306.9 (NEIS)
				PV A 1.8s 54.1nm M = 5.1
12.	eP	A	10 15 18	Panama 7.14 N 78.27 W
				H = 10 02 45.2 h = 23 km MB = 4.8
				D = 84.47 Az = 39.8 (NEIS)
				PV A traces
12.	eP	A	13 43 10	Alma-Ata Region 43.03 N 78.92 E
	LmH	B	14 02.7	H = 13 34 55.0 h = normal MB = 5.2
	LmV	B	03.6	D = 45.22 Az = 304.2 (NEIS)
				PV A 1.5s 80.4nm M = 5.4
				LmH B 12 0.9/um 4.9
				LmV B 10 1.4/um 5.3
13.	ePKIKP	A	01 20 51	Solomon Islands 4.57 S 154.78 E
	ePP	A	22 50.5	H = 01 02 46.4 h = 492 km MB = 5.4
				D = 124.68 Az = 332.3 (NEIS)
				PKIKPV A 1.4s 23.3nm
14.	ePKP	A	01 44 42.5	New Hebrides Islands 18.99 S 169.41 E
				H = 01 25 38.1 h = 249 km MB = 4.8
				D = 143.82 Az = 335.9 (NEIS)
14.	eP	A	11 28 17	Albania 41.45 N 19.93 E
	e	A	29 27	H = 11 25 39.9 h = 36 km MB = 4.2 (NEIS)
				D = 10.86

Day	Phase		h m s	Remarks
14.	ePP	A	24 10 09	Near Coast of Nicaragua
				11.69 N 86.08 W
				H = 23 57 08.1 h = 146 km MB = 5.0 (NEIS)
				D = 85.89
				PPV A traces
15.	eP	A	06 27 47	Mocambique Channel 16.24 S 41.56 E
	ePP	A	30 33	H = 06 16 27.8 h = normal MB=5.3 MS=5.3
				D = 71.60 Az = 340.4 (NEIS)
				PV A 1.8s 33.8nm M = 5.1
				PPV A 2.0 38.5nm 5.3
15.	eP1	A	10 27 37	Dodecanese Islands 35.86 N 27.14 E
	eP2	A	27 42	H = 10 23 18.3 h = 28 km MB = 4.6
				D = 18.55 Az = 327.6 (NEIS)
				P1V A traces
				P2V A 1.9s 80.1nm M = 4.5
15.	eP	A	13 19 25	Northeastern China 40.68 N 122.61 E
	e	A	19 37	H = 13 08 07.3 h = normal MB=5.0 MS=5.3
	LmH	B	48.4	D = 70.90 Az = 321.0 (NEIS)
	LmV	B	53.6	PV A 2.0s 42.7nm M = 5.2
				LmH B 18.5 2.9/um 5.6
				LmV B 14 1.6/um 5.5
15.	ePn	A	18 37 18	Poland 50.0 N 19.6 E
	e	A	37 18	H = 18 34 53 h = 0 km
				D = 5.14 Az = 280 (ISC)
16.	eP	A	05 17 32	East New Guinea Region 7.19 S 146.06 E
	epP	A	18 17.5	H = 04 58 55.7 h = 174 km MB = 5.7
	ePP	A	19 10	D = 122.57 Az = 327.4 (NEIS)
				h = 185 km
				PKIKPV A 1.2s 16.3nm
16.	eP	A	14 12 38.5	Northeastern China 40.71 N 122.53 E
	LmH	B	41.7	H = 14 01 23.2 h = normal MB=5.2 MS=5.4
	LmV	B	45.9	D = 70.84 Az = 321.0 (NEIS)
				PV A 1.8s 33.8nm M = 5.1

Day	Phase		h m s	Remarks
cont. 16.				LmH B 18s 3.7/um M = 5.7
				LmV B 15 1.2/um 5.3
16.	e	A	16 27 31	Off Coast of Northern Peru
	LmH	B	17 11.5	8.49 S 82.10 W
	LmV	B	11.6	H = 16 13 40.3 h = 29 km MB=5.2 MS=5.1
				D = 98.86 Az = 40.0 (NEIS)
				LmH B 20s 0.7/um M = 5.1
				LmV B 20 1.0/um 5.3
17.	eP	AB	03 50 00	Burma-Thailand Border Region
	eS	B	59 35	17.64 N 97.90 E
	LmH	B	04 21.7	H = 03 38 19.8 h = 6 km MB=5.6 MS=5.9
	LmV	B	25.4	D = 74.24 Az = 318.7 (NEIS)
				PV A 2.0s 205.0nm M = 5.8
				LmH B 21 5.8/um 5.8
				LmV B 22 4.7/um 5.8
17.	eP	A	14 26 19.5	Yugoslavia 44.99 N 17.23 E
	eSn	A	27 32	H = 14 24 40.0 h = normal
	eSg	A	28 18	D = 6.80 Az = 328.3 (NEIS)
18.	iPg	A	12 00 35	Czechoslovakia 50.42 N 13.84 E
	iSg	A	00 50	H = 12 00.0
				explosion yield 10 t (KHC)
				D c. 0.5
19.	epPKP	A	06 38 17	New Britain Region 4.86 S 152.71 E
				H = 06 19 05.1 h = 65 km MB = 5.3
				D = 123.96 Az = 331.2 (NEIS)
20.	+iP	AB	05 40 46	Eastern Kazakh SSR 49.82 N 78.08 E
	ePn	A	42 18	H = 05 32 57.7 h = 0 km MB = 5.7
				D = 41.22 Az = 297.6 (NEIS)
				Underground explosion MB = 6.0 (UPP)
				PV A 0.8s 173.0nm M = 5.8

Day	Phase		h m s	Remarks
20.	eP	A	13 58 52	Greece 38.47 N 20.27 E
				H = 13 55 35.2 h = 4 km MB = 4.5
				D = 13.63 Az = 336.0 (NEIS)
20.	eP	A	14 49 42	Eastern Caucasus 42.43 N 45.18 E
				H = 14 44 25.6 h = normal MB = 4.8
				D = 24.34 Az = 301.3 (NEIS)
22.	eP	A	01 00 18	Guerrero, Mexico 17.36 N 100.48 W
	epP	A	00 29	H = 00 47 21.7 h = 40 km MB=5.3 MS=5.8
	LmV	B	42.8	D = 90.01 Az = 36.1 (NEIS)
	LmH	B	44.3	h = 37 km
				LmH B 16s 1.6/um M = 5.5
				LmV B 16 5.7/um 5.7
22.	eP	A	05 12 19	Northern Sinkiang Prov., China
				42.11 N 83.33 E
				H = 05 03 38.2 h = normal MB = 5.0
				D = 48.41 Az = 306.1 (NEIS)
				PV A 1.5s 25.1nm M = 5.0
22.	+iP	AB	08 48 01.5	Andreanof Islands, Aleutian Is.
	eS	AB	57 51	51.38 N 179.42 W
	eSS	B	09 02 15	H = 08 36 07.4 h = 48 km MB=6.3 MS=6.5
	eP'P'	A	15 06	D = 77.92 Az = 352.8 (NEIS)
	LmH	B	30.6	PV A 1.8s 980.0nm M = 6.5
	LmV	B	30.6	PV B 10 8.4/um 6.7
				SH B 16.5 4.5/um 6.3
				LmH B 16.5 23.1/um 6.6
				LmV B 17 25.2/um 6.7
22.	eP	A	15 38 56	Hokkaido, Japan Region
	ePP	A	41 57	41.26 N 144.46 E
	LmH	B	16 14.9	H = 15 26 48.9 h = 18 km MB=5.4 MS=4.4
	LmV	B	19.0	D = 79.62 Az = 331.7 (NEIS)
				PV A 1.3s 26.2nm M = 5.1
				LmH B 16 1.3/um 5.4
				LmV B 17 1.3/um 5.4

Day	Phase	h m s	Remarks
22.	eP A	20 10 04.5	Andreanof Islands, Aleutian Is.
			51.40 N 179.51 W
			H = 19 58 10.0 h = 46 km MB = 4.8
			D = 77.89 Az = 352.8 (NEIS)
			PV A 1.0s 7.9nm M = 4.7
22.	eiPKIKP AB	22 23 43	South of Fiji Islands 24.89 S 179.06 W
	ePKHKP A	23 57	H = 22 04 37.7 h = 375 km MB = 6.2
	ePKP2 AB	24 05	D = 152.99 Az = 344.9 (NEIS)
	ePP AB	27 38	PKIKPV A 1.4s 158.0nm
	esPKS B	29 37	PKIKPV B 16 6.8/um
	eSS B	46 44	PKHKPV A 1.5 483.0nm
	esSS B	49 20	PKP2V A 1.5 704.0nm
			PPV A 2.1 603.7nm M = 6.4
			PPV B 9 8.9/um 6.9
22.	eP A	22 59 38	Andreanof Islands, Aleutian Is.
			51.32 N 179.34 W
			H = 22 47 45.8 h = 62 km MB = 5.1
			D = 77.98 Az = 352.9 (NEIS)
			PV A 1.2s 40.6nm M = 5.3
23.	eP A	01 28 08	Andreanof Islands, Aleutian Is.
			51.35 N 179.42 W
			H = 01 16 14.4 h = 55 km MB = 5.0
			D = 77.95 Az = 352.8 (NEIS)
			PV A 1.2s 24.4nm M = 5.1
23.	ePKIKP A	03 05 26	South of Fiji Islands 25.02 S 178.75 W
	ePKHKP A	05 34	H = 02 46 18.6 h = 376 km MB = 4.7
	ePKP2 A	05 47	D = 153.19 Az = 345.3 (NEIS)
			PKHKPV A 1.6s 38.5nm
			PKP2V A 1.4 55.8nm
23.	eP A	03 11 11.5	Mindanao, Philippine Islands
	epP A	13 31	8.02 N 124.08 E
			H = 02 58 41.0 h = 623 km MB = 5.6
			D = 97.70 Az = 323.6 (NEIS)
			h = 660 km

Day	Phase	h m s	Remarks
cont. 23.			PV A 1.2s 69.1nm M = 5.8
			pPV A 1.4 18.6nm
23.	eP A	04 07 29	Off Coast of Northern Chile
			21.73 S 71.36 W
			H = 03 53 35.9 h = normal MB=5.6 MS=4.9
			D = 102.20 Az = 40.3 (NEIS)
			PV A traces
23.	eP A	05 21 37	Andreanof Islands, Aleutian Is.
			51.27 N 179.27 W
			H = 05 09 43.3 h = 50 km MB = 5.0
			D = 78.04 Az = 352.9 (NEIS)
			PV A 1.0s 15.8nm M = 5.0
23.	ePKIKP A	07 53 29	Santa Cruz Islands 10.88 S 166.67 E
	LmH C	08 57.0	H = 07 34 11.4 h = normal MB=5.4 MS=5.5
	LmV C	09 00.5	D = 135.37 Az = 337.5 (NEIS)
			PKIKPV A traces
24.	ePn A	01 58 43	Federal Republic of Germany
	ePg A	58 52	48.50 N 9.16 E
	eSn A	59 13.5	H = 01 58 01.0 h = normal
	eSg A	59 25	D = 2.68 Az = 35.8 (NEIS)
24.	eP A	09 10 04.5	Southwestern Ryukyu Islands
			24.51 N 123.11 E
			H = 08 57 42.8 h = 84 km MB = 4.9
			D = 83.94 Az = 323.4 (NEIS)
25.	ePKIKP A	05 39 04.5	New Britain Region 7.39 S 149.80 E
	LmV C	06 52.5	H = 05 20 04.5 h = normal MB=5.5 MS=4.9
	LmH C	53.3	D = 124.69 Az = 328.9 (NEIS)
			LmH C 20s 1.4/um M = 5.6
			LmV C 30 0.5/um 5.1
25.	ePKP A	06 36 04	Fiji Islands Region 18.62 S 177.81 W
			H = 06 17 31.1 h = 570 km MB = 4.3
			D = 147.18 Az = 348.9 (NEIS)

Day	Phase		h m s	Remarks
25.	e	A	19 48 04	Fiji 16.25 S 178.06 E
	LmH	C	20 44.4	H = 19 27 51.4 h = 33 km MB = 5.0 (NEIS)
	LmV	C	44.5	D = 144.0
				LmH C 32s 0.4/um M = 5.0
				LmV C 28 0.6/um 5.2
25.	ePKP	A	21 14 26	Loyalty Islands 20.07 S 168.66 E
				H = 20 54 51.6 h = 18 km MB = 4.8
				D = 144.50 Az = 334.7 (NEIS)
				PKPV A 1.3s 21.8nm
26.	-eP1	AB	04 56 23.5	North of Severnaya Zemlya
	+eP2	AB	56 30	85.05 N 97.97 E
	eS	B	05 02 24	H = 04 48 54.7 h = normal MB=5.4 MS=5.6
	LmH	B	10.3	D = 39.49 Az = 272.4 (NEIS)
	LmV	B	10.7	P1V A 0.9s 46.7nm M = 5.2
				P2V A 2.3 439.0nm 5.8
				P2V B 4 1.9/um 6.2
				LmH B 23 5.7/um 5.3
				LmV B 24 4.9/um 5.3
26.	ePKIKP	A	14 47 59	Solomon Islands 6.53 S 154.93 E
				H = 14 29 00.5 h = 54 km MB = 5.5
				D = 126.47 Az = 331.8 (NEIS)
26.	eP	A	18 36 05	North Atlantic Ocean 53.83 N 35.32 W
	LmH	B	46.8	H = 18 30 11.9 h = normal MB=4.8 MS=4.8
	LmV	B	47.6	D = 28.51 Az = 77.0 (NEIS)
				PV A 2.2s 65.5nm M = 4.9
				LmH B 16 1.0/um 4.5
				LmV B 16 1.4/um 4.8
26.	e	A	19 43 33	North Atlantic Ocean 53.97 N 35.16 W
	LmV	C	53.5	H = 19 37 30.6 h = normal MB=4.6 MS=4.5
	LmH	C	54.0	D = 28.38 Az = 77.4 (NEIS)
				LmV C 20s 0.5/um M = 4.2

Day	Phase		h m s	Remarks
27.	ePKIKP	A	14 42 48	New Britain Region 6.10 S 148.24 E
	ePP	C	44 25	H = 14 23 59.3 h = 78 km MB = 5.9
	ePS	C	54 20	D = 122.79 Az = 328.7 (NEIS)
	eSS	C	15 01 50	PKIKPV A 1.2s 16.3nm
	eSSS	C	05 50	LmH B 23 3.6/um
				LmV B 22 3.3/um
27.	ePKIKP1	A	19 01 28.5	Fiji Islands Region 17.86 S 178.58 W
	ePKIKP2	A	01 32.5	H = 18 42 53.7 h = 586 km MB = 5.9
	e	A	01 39	D = 146.29 Az = 348.3 (NEIS)
				PKIKP1V A 1.2s 24.4nm
				PKIKP2V A 1.6 104.0nm
28.	e	A	00 55 54	
28.	eP	A	15 27 18	Southern Nevada 37.11 N 116.06 W
				H = 15 15 00.0 h = 0 km MB = 5.7
				D = 81.25 Az = 30.7 (NEIS)
				Nuclear explosion TOPGALLANT (USAEC)
				PV A 1.4s 60.5nm M = 5.5
28.	eP	A	19 54 11.5	Greece 40.67 N 22.46 E
	LmH	B	58.4	H = 19 51 09.1 h = 35 km MB = 4.4
	LmV	B	59.5	D = 12.52 Az = 326.5 (NEIS)
				LmH B 11s 1.3/um M = 4.4
				LmV B 9 0.8/um
28.	+eP	A	24 04 26	Hindu Kush Region 36.46 N 70.70 E
	epP	A	05 11	H = 23 56 36.6 h = 200 km MB = 5.3
				D = 43.95 Az = 308.1 (NEIS)
				h = 216 km
				PV A 2.0s 85.5nm M = 4.9

Day	Phase		h m s	Remarks
1.	ePKHKP	A	05 53 32	Fiji Region 17.89 S 178.70 W
				H = 05 34 51.2 h = 550 km MB = 3.9
				D = 146.30 Az = 348 (ISC)
				traces
1.	ePKIKP	A	06 09 41	South of Fiji Islands 23.28 S 177.74 W
	ePKHKP	A	09 48.5	H = 05 50 17.5 h = 270 km MB = 4.9
	e	A	11 02.5	D = 151.72 Az = 347.4 (NEIS)
				PKIKPV A 0.8s 19.2nm
1.	eSKS	C	15 17 40	Off Coast of Northern Peru
	ePS	C	20 00	8.45 S 81.97 W
	eSS	C	25 00	H = 14 53 19.0 h = 33 km MB = 5.5 (NEIS)
	eSSS	C	29.0	D = 98.74
	LmH	B	53.2	LmH B 20s 0.8/um M = 5.2
	LmV	B	56.3	LmV B 18 0.9/um 5.3
2.	ePKHKP	A	09 28 09	Tonga Islands 20.43 S 173.51 W
	e	A	28 34.5	H = 09 08 21.6 h = normal MB = 4.5
				D = 149.57 Az = 353.6 (NEIS)
2.	eP	A	14 24 42.5	North of Severnaya Zemlya
				85.18 N 97.68 E
				H = 14 17 14.3 h = normal MB = 4.2
				D = 39.46 Az = 272.0 (NEIS)
2.	eP	AB	14 30 56	North of Severnaya Zemlya
	e	A	31 03	84.96 N 98.20 E
	ePP	A	32 33	H = 14 23 26.6 h = normal MB=5.0 MS=5.0
	ePcP	A	32 49	D = 39.51 Az = 272.7 (NEIS)
	eS	B	37 00	PV A 1.3s 48.0nm M = 5.1
	LmH	B	53.7	PPV A 1.5 35.2nm 5.0
	LmV	B	53.7	PcP A 2.0 64.1nm
				LmH B 14 1.1/um 4.9
				LmV B 15 1.1/um 4.9
3.	LmH	C	00 33.4	LmH C 32s 0.5/um
	LmV	C	35.3	LmV C 34 0.5/um

Day	Phase		h m s	Remarks
3.	-eP	A	09 56 14	Hindu Kush Region 36.38 N 70.86 E
	epP	A	56 56	H = 09 48 23.8 h = 201 km MB = 5.3
	esP	A	57 15	D = 44.10 Az = 308.2 (NEIS)
				h = 193 km
				PV A 1.4s 74.4nm M = 5.0
				pPV A 2.0 170.9nm
3.	e(pP)	A	19 35 28	Burma-India Border Region
	e	A	35 36.5	24.14 N 93.55 E
				H = 19 24 23.1 h = 42 km MB = 5.0
				D = 66.72 Az = 316.7 (NEIS)
4.	ePKHKP	A	09 07 46	Fiji Islands Region 20.00 S 177.92 W
	ePKP2	A	07 51.5	H = 08 48 52.1 h = 456 km MB = 4.6
				D = 148.50 Az = 348.4 (NEIS)
4.	eP	A	10 56 18	Off East Coast of Kamchatka
				52.41 N 160.48 E
				H = 10 44 45.8 h = 42 km MB = 4.6
				D = 74.00 Az = 340.0 (NEIS)
4.	e	A	11 36 49.5	Banda Sea 5.00 S 130.03 E
	e	A	36 53	H = 11 17 48.3 h = 29 km MB=5.7 MS=5.4
	ePP	A	37 08.5	D = 111.63 Az = 323.0 (NEIS)
				PPV A 1.6s 33.0nm M = 5.8
4.	eP	A	17 08 57	Afghanistan-USSR Border Region
	epP	A	09 21.5	36.27 N 71.63 E
				H = 17 00 50.9 h = 90 km MB = 4.9
				D = 44.65 Az = 308.3 (NEIS)
				h = 110 km
4.	ePKP	A	21 45 21	Samoa Region 15.38 S 171.91 W
				H = 21 25 41.5 h = 0 km MB = 4.9
				D = 144.71 Az = 356 (ISC)
				PKPV A 1.2s 12.2nm

Day	Phase		h m s	Remarks
5.	eP	A	00 36 41	Ceram Sea 2.44 S 126.15 E
	eX	A	36 50	H = 00 22 19.7 h = normal MB=6.4 MS=6.6
	ePP1	B	41 00	D = 107.26 Az = 322.7 (NEIS)
	ePP2	AB	41 09	XV A 1.7s 48.5nm
	ePPP	BC	43 28	PP2V A 4.0 2173.9nm M = 7.2
	eSKS	B	47 19	PP2V B 5 3.4/um 7.3
	e	B	50 44	LmH B 20 16.9/um 6.6
	ePS	C	51 20	LmV B 19 17.3/um 6.6
	ePKKP	A	52 05	
	eSS	C	56 22	
	LmH	B	29.5	
	LmV	B	33.7	
5.	eP	A	05 35 36	North Atlantic Ocean 36.05 N 10.65 W
	e	A	35 52	H = 05 30 46.4 h = normal MB = 4.3
				D = 21.68 Az = 40.8 (NEIS)
				PV A 1.2s 10.2nm M = 4.1
5.	+iPKP	AB	10 46 39.0	New Hebrides Islands 19.53 S 168.67 E
	e	A	48 10	H = 10 27 09.9 h = 55 km MB = 5.6
				D = 144.10 Az = 335.2 (NEIS)
				PKPV A 1.2s 228.0/um
5.	eP	AC	13 59 54.5	Venezuela 9.04 N 69.95 W
	ePS	C	10 20	H = 13 48 00.7 h = 51 km MB = 5.6
	LmH	B	14 29.1	D = 77.73 Az = 40.1 (NEIS)
	LmV	B	29.2	PV A 1.8s 94.5nm M = 5.5
				LmH B 20 0.8/um
				LmV B 20 1.0/um
5.	ePP	A	21 51 06	South Sandwich Islands Region
	LmH	C	22 27.3	55.97 S 27.17 W
	LmV	C	28.2	H = 21 32 01.1 h = 57 km MB = 5.9 (NEIS)
				D = 111.02
				PPV A 1.4s 18.6nm M = 5.5
				LmH C 30 0.5/um
				LmV C 30 0.8/um

Day	Phase		h m s	Remarks
6.	e	A	02 32 45	
7.	ePn	A	01 35 51	Northern Italy 46.32 N 12.83 E
	e(Pb)	A	36 04.5	H = 01 34 42.6 h = 0 km
				D = 4.40 Az = 350 (ISC)
7.	PKHKP	A	02 50 15	Tonga Islands 20.42 S 173.99 W
				H = 02 30 26.9 h = 37 km MB=5.2 MS=5.4
				D = 149.51 Az = 353.0 (NEIS)
				PKHKPV A 1.4s 69.7nm
7.	eP	A	04 15 45	Rumania 45.86 N 26.63 E
	LmH	B	21.2	H = 04 13 05.1 h = 21 km MB=4.9 MS=4.5
	LmV	B	21.5	D = 11.09 Az = 301.0 (NEIS)
				PV A 1.8s 40.5nm M = 5.4
				LmH B 10 6.0/um 4.8
				LmV B 10 4.7/um
7.	+iP	AB	07 12 24	Southern Iran 27.40 N 56.26 E
	ePP	C	14 05	H = 07 04 42.6 h = 27 km MB=5.8 MS=6.1
	eS	C	18 34	D = 40.84 Az = 316.8 (NEIS)
	eSS	C	21 42	PV A 1.2s 106.0nm M = 5.4
	LmH	B	29.8	PV C 10 2.4/um 5.9
	LmV	B	37.0	PPV C 10 2.4/um 5.9
				LmH B 20 15.4/um 5.9
				LmV B 13 6.5/um 5.8
7.	eP	A	14 34 37.5	Southern Iran 27.47 N 56.25 E
				H = 14 26 56.5 h = 28 km MB = 5.2
				D = 40.85 Az = 316.9 (NEIS)
				PV A 1.3s 21.8nm M = 4.7
7.	eP	A	15 12 18	Southern Nevada 37.13 N 116.08 W
				H = 15 00 00.0 h = 0 km MB = 5.5
				D = 81.24 Az = 30.6 (NEIS)
				Nuclear explosion CABRILLO (USAEC)
				PV A 1.0s 39.4nm M = 5.4

Day	Phase		h m s	Remarks
7.	eP	A	17 47 19	Szechwan Prov., China 28.33 N 104.08 E
				H = 17 36 08.2 h = normal MB=5.3 MS=5.0
				D = 70.13 Az = 317.4 (NEIS)
8.	eP	A	05 28 45.5	Queen Elizabeth Islands
	LmV	C	42.0	79.24 N 96.12 W
	LmH	C	42.4	H = 05 20 40.9 h = normal MB=4.4 MS=4.7
				D = 43.87 Az = 61.1 (NEIS)
				PV A 1.2s 12.2nm M = 4.6
				LmH C 36 0.7/um 4.4
				LmV C 40 0.9/um 4.5
8.	eP	A	08 45 24.5	North Atlantic Ocean 38.60 N 14.75 W
	LmH	B	54.0	H = 08 40 29.0 h = normal MB=4.7 MS=4.3
	LmV	B	55.3	D = 22.17 Az = 48.5 (NEIS)
				PV A 1.4s 65.1nm M = 4.9
				LmH B 14 1.0/um 4.4
				LmV B traces
9.	ePKP	A	00 37 06.5	Tonga Islands 16.84 S 173.50 W
	eX	A	37 20.5	H = 00 17 28.2 h = normal MB=4.6 MS=4.3
				D = 146.03 Az = 354.2 (NEIS)
				PKPV A 1.5s 30.2nm
				XV A 1.2 61.0nm
9.	eP	A	06 47 24	Southern Iran 27.38 N 56.27 E
				H = 06 39 43.6 h = normal MB = 4.9
				D = 40.93 Az = 316.9 (NEIS)
9.	e(Sn)	A	07 50 03	Poland 51.1 N 20.1 E
				H = 07 47 30 h = 33 km (ISC)
				D = 5.4
9.	ePKHKP	A	16 04 34.5	South of Fiji Islands 24.42 S 176.71 W
	ePKP2	A	04 44.5	H = 15 44 55.0 h = 168 km MB = 4.9
				D = 153.03 Az = 348.3 (NEIS)

Day	Phase		h m s	Remarks
10.	eP	A	03 16 08	Kashmir- Tibet Border Region
				32.21 N 78.78 E
				H = 03 07 03.4 h = 49 km MB = 4.9
				D = 51.79 Az = 311.7 (NEIS)
				PV A 0.8s 15.4nm M = 5.1
10.	LmH	C	22 02.5	Mindanao 9.57 N 124.03 E
	LmV	C	02.5	H = 21 00 02.4 h = 46 km MB = 5.3 (ISC)
				D = 96.6
				LmH C 20s 0.6/um M = 5.1
				LmV C 20 0.7/um 5.1
11.	iPg	A	03 43 55.3	
11.	eP	A	04 41 25	North Atlantic Ridge 30.20 N 41.93 W
				H = 04 33 14.6 h = normal MB=4.6 MS=4.1
				D = 44.48 Az = 47.0 (NEIS)
				PV A traces
11.	+iP	A	05 50 46.0	Eastern Kazakh SSR 49.79 N 78.25 E
	ePn	A	52 19	H = 05 42 57.6 h = 0 km MB = 5.4
				D = 41.33 Az = 297.8 (NEIS)
				Underground explosion MB = 6.0 (UPP)
				PV A 0.8s 57.6nm M = 5.4
11.	eP	A	09 09 36	Honshu, Japan 36.51 N 139.58 E
				H = 08 57 30.6 h = 136 km MB = 4.8
				D = 81.88 Az = 329.5 (NEIS)
				PV A 1.4s 18.6nm M = 4.7
11.	LmH	C	16 12.5	LmH C 15s 0.5/um
	LmV	C	12.5	LmV C 16 0.4/um
11.	eP	A	21 18 01.5	Unterbreizbach, German Democr. Republic
				D c. 1.1 (MOX)
11.	eP1	A	23 47 16	Iceland Region 66.05 N 18.56 W
	eP2	A	47 19	H = 23 42 24.4 h = normal MB = 4.5
	eS	C	51 05	D = 21.78 Az = 120.4 (NEIS)

Day	Phase		h m s	Remarks
cont. 11.	LmH	C	23 56.8	P2V A 1.8s 47.3nm M = 4.6
	LmV	C	56.8	LmH C 17 0.2/um 4.4
				LmV C 18 0.6/um 4.2
12.	ePKHKP	A	10 39 52	South of Fiji Islands 22.64 S 176.39 W
	epPKP	A	40 25	H = 10 20 16.3 h = 191 km MB = 4.4
				D = 151.35 Az = 349.3 (NEIS)
12.	eP	A	10 55 26.5	Andreanof Islands, Aleutian Is.
				51.53 N 177.75 W
				H = 10 43 33.1 h = 54 km MB = 5.4
				D = 77.89 Az = 353.9 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
12.	ePn	A	17 28 59.5	Yugoslavia 45.58 N 15.99 E
	ePg	A	29 33	H = 17 27 32.4 h = 26 km
	eSn	A	30 08	D = 5.85 Az = 331.6 (NEIS)
	eSg	A	30 44.5	
12.	LmV	C	19 50.0	New Ireland Region 3.67 S 151.13 E
	LmH	C	51.2	H = 18 42 20.1 h = 45 km MB = 5.0 (ISC)
				D = 122.2
13.	eP	A	08 23 31	Andaman Islands Region
	eX	A	23 37	11.11 N 95.15 E
				H = 08 11 37.7 h = normal MB = 5.2
				D = 77.41 Az = 319.6 (NEIS)
				PV A traces
				XV A 1.5s 27.6nm
13.	eP	AB	15 41 07.5	Near Coast of Central Chile
	ePP	AB	45 38	29.94 S 71.34 W
	eSKS	B	52 00	H = 15 26 42.5 h = 4 km MB=6.2 MS=6.9
	ePS	B	55 00	D = 108.37 Az = 41.7 (NEIS)
	ePKKP	A	56 40	PPV A 2.2s 283.5nm M = 6.5
	LmH	B	16 26.0	LmH B 23 32.1/um 6.8
	LmV	B	26.3	LmV B 23 40.4/um 6.9

Day	Phase		h m s	Remarks
13.	eP	A	16 30 59	Kurile Islands Region 45.52 N 153.81 E
				H = 16 18 57.8 h = normal MB = 5.2
				D = 78.77 Az = 336.6 (NEIS)
				PV A 1.5s 20.1nm M = 4.9
13.	eiPKP	AB	19 05 01.5	Loyalty Islands Region 21.78 S 170.53 E
	PKPm	B	05 32	H = 18 45 29.5 h = 85 km MB = 6.1
	eSKKS	B	15 10	D = 146.78 Az = 335.3 (NEIS)
	eSKSP	B	18 32	PKPV A 1.4s 1022.0nm
	LmV	B	20 03.5	PKPmV B 14 17.0/um
	LmH	B	04.0	PPV A 1.8 439.2nm M = 6.3
				LmH B 28 54.5/um
				LmV B 29 61.1/um
13.	eP	A	23 52 34	Caribbean Sea 16.32 N 86.96 W
	eX	A	52 43	H = 23 40 10.9 h = normal MB=5.2 MS=5.2
				D = 82.87 Az = 39.4 (NEIS)
				PV A 1.0s 15.8nm M = 5.0
				XV A 1.7 39.4nm 5.1
				LmH B 17 0.7/um 5.3
14.	ePKP	A	00 21 35	Loyalty Islands Region 21.75 S 170.66 E
				H = 00 01 58.7 h = 64 km MB = 5.0
				D = 146.80 Az = 335.4 (NEIS)
				PKPV A 1.2s 20.3nm
14.	eP	AB	02 06 03	Jan Mayen Island Region
	eS	B	10 08	71.64 N 4.12 W
	LmV	B	16.5	H = 02 01 08.6 h = normal MB=4.9 MS=4.7
	LmH	B	17.3	D = 22.24 Az = 152.9 (NEIS)
				PV A 1.6s 55.0nm M = 4.8
				LmH B 12 1.2/um 4.6
				LmV B 13.5 1.3/um 4.7
14.	eP	A	05 27 10.5	Kurile Islands 46.34 N 153.12 E
	e	A	27 17	H = 05 15 15.2 h = 33 km MB = 5.2
	e	A	27 24.5	D = 77.82 Az = 336.1 (NEIS)
				PV A 1.0s 27.6nm M = 5.2

Day	Phase		h m s	Remarks
14.	eP	A	06 16 58.5	Chiapas, Mexico 16.60 N 93.39 W
	epP	A	17 36	H = 06 04 31.3 h = 155 km MB = 5.5
				D = 86.51 Az = 38.0 (NEIS)
				h = 156 km
				PV A 2.3s 140.0nm M = 5.4
14.	LmH	C	06 42.6	LmH C 36s 1.0/um
	LmV	C	43.7	LmV C 24 0.8/um
14.	eP	A	14 08 30	Southern Honshu, Japan
	epP	A	08 44.5	35.29 N 136.82 E
	LmH	B	48.6	H = 13 56 16.5 h = 57 km MB = 4.9
	LmV	B	49.8	D = 81.76 Az = 328.3 (NEIS)
				h = 50 km
				PV A traces
				LmH B 16s 0.6/um
				LmV B 14 0.6/um
14.	+iP	A	16 17 23.5	Kurile Islands 44.28 N 148.49 E
				H = 16 05 25.3 h = normal MB = 5.4
				D = 78.31 Az = 333.6 (NEIS)
				PV A 1.1s 62.5nm M = 5.5
14.	eP	A	18 58 55	Tsinghai Prov., China
				34.01 N 95.48 E
				H = 18 48 42.9 h = normal MB = 5.1
				D = 60.93 Az = 313.6 (NEIS)
				PV A traces
14.	ePKIKP	A	19 51 22	Flores Sea 7.74 S 122.37 E
	ePP	A	51 49	H = 19 33 22.7 h = 279 km MB = 5.5
				D = 109.07 Az = 321.0 (NEIS)
				PKIKPV A traces
				PPV A 1.7s 24.2nm M = 5.1

Day	Phase		h m s	Remarks
14.	ePP	AB	20 18 25.5	Western New Guinea Region
	LmH	B	21 00.7	H = 19 59 03.1 h = 35 km MB = 5.3 (NEIS)
	LmV	B	11.7	D = 111.80
				PPV A 2.2s 65.4nm M = 6.0
				LmH B 18.5 0.9/um 5.4
				LmV B 17 0.6/um 5.3
15.	eP	A	10 11 53.5	Near East Coast of Kamchatka
				53.01 N 159.98 E
				H = 10 00 23.6 h = normal MB=4.7 MS=4.2
				D = 73.33 Az = 339.6 (NEIS)
				PV A 1.2s 16.3nm M = 4.9
15.	ePKP	A	18 14 31	Tonga Islands 15.46 S 173.24 W
				H = 17 54 53.7 h = 15 km MB = 4.7
				D = 144.68 Az = 354.6 (NEIS)
				PKPV A traces
15.	ePP	A	22 56 38	Northern Chile 21.68 S 69.38 W
				H = 22 38 39.3 h = 57 km MB = 5.1 (NEIS)
				D = 101.11
				PPV A 2.0s 42.7nm M = 5.7
16.	eP	A	05 37 51	Szechwan Prov., China 29.25 N 101.76 E
				H = 05 26 50.4 h = normal MB = 5.1
				D = 68.07 Az = 316.7 (NEIS)
				PV A traces
16.	e	A	06 39 52.5	
16.	eP	A	07 49 28	North Atlantic Ocean 56.8 N 33.9 W
				H = 07 43 45 h = 33 km MB = 4.7
				D = 27.23 Az = 83 (ISC)
				PV A 1.4s 14.0nm M = 4.5
16.	eP	A	08 40 53	Turkey 40.37 N 26.10 E
	LmH	B	45.6	H = 08 37 16.5 h = 5 km MB = 4.1
	LmV	B	47.0	D = 14.42 Az = 320.3 (NEIS)
				LmH B 14s 1.4/um M = 4.2
				LmV B 9 0.7/um

Day	Phase		h m s	Remarks
16.	eP	A	10 31 39	West Pakistan 29.63 N 68.52 E
	LmH	C	52.4	H = 10 23 08.7 h = 35 km MB = 5.2
	LmV	C	53.9	D = 47.00 Az = 313.2 (NEIS)
				PV A 1.4s 32.6nm M = 5.1
				LmH C 22 0.6/um 4.5
				LmV C 18 0.5/um 4.6
16.	eP	A	23 52 38	Kurile Islands 43.43 N 146.49 E
	e	A	52 49.5	H = 23 40 41.0 h = 46 km MB = 5.0
				D = 78.40 Az = 332.6 (NEIS)
				PV A 1.0s 11.8nm M = 4.8
17.	eP	A	02 10 03	Turkey 40.41 N 26.02 E
	e	A	10 31	H = 02 06 38.1 h = 2 km MB = 4.6
	LmH	B	15.0	D = 14.35 Az = 320.3 (NEIS)
	LmV	B	16.3	LmH B 13s 2.2/um M = 4.5
17.	eP	AB	05 14 37	Turkey 40.40 N 25.98 E
	eSS	C	17 38	H = 05 11 12.2 h = 3 km MB = 5.0 MS=5.3
	LmH	B	19.6	D = 14.34 Az = 320.4 (NEIS)
	LmV	B	23.4	PV A 1.7s 24.2nm M = 4.6
				LmH B 13 23.5/um 5.5
				LmV B 10.5 9.2/um
17.	eP	A	05 21 13	Turkey 40.49 N 26.17 E
				H = 05 17 47.3 h = 5 km MB = 4.8 (NEIS)
				D = 14.36
17.	eP	A	05 38 39.5	Turkey 40.47 N 26.11 E
	LmH	B	43.7	H = 05 35 15.2 h = 5 km MB=5.2 MS=5.9
	LmV	B	45.0	D = 14.35 Az = 320.0 (NEIS)
				PV A 1.2s 52.8nm M = 5.1
				LmH B 12 56.1/um 5.9
				LmV B 14 19.3/um
17.	eP	A	17 51 22.5	Andreanof Islands, Aleutian Is.
				51.85 N 175.29 W
				H = 17 39 29.2 h = 48 km MB=5.0 MS=4.3
				D = 77.72 Az = 355.5 (NEIS)
				PV A 1.0s 15.7nm M = 5.0

Day	Phase		h m s	Remarks
17.	ePP	A	19 16 49	Northern Celebes 0.78 N 122.58 E
	e	A	17 05	H = 18 58 42.6 h = 64 km MB = 5.5 (NEIS)
				D = 102.56
17.	ePP	A	22 30 39	Western New Guinea 2.55 S 138.23 E
	eSKKKS	C	38 25	H = 22 11 01.6 h = 33 km MB = 5.4 (NEIS)
	eSP	C	40 14	D = 114.41
	eSS	C	46 40	LmH B 22s 15.4/um M = 6.6
	LmH	B	23 21.2	LmV B 20 5.4/um 6.2
	LmV	B	21.8	
18.	LmH	B	08 04.7	Banda Sea 4.99 S 130.03 E
	LmV	B	04.7	H = 07 27 52 h = 31 km MB = 5.2 (ISC)
				D = 111.6
				LmH B 20s 2.2/um M = 5.7
				LmV B 19 1.9/um 5.7
18.	eP	A	13 19 07	Norwegian Sea 65.46 N 5.16 E
				H = 13 15 26.4 h = normal MB = 4.6
				D = 15.23 Az = 164.2 (NEIS)
				PV A 1.2s 16.3nm M = 4.1
18.	eP	A	17 34 24	Northern Peru 4.23 S 77.02 W
	epP	C	34 56	H = 17 21 23.4 h = 98 km MB = 6.2
	eSKS	C	44 52	D = 92.37 Az = 39.6 (NEIS)
	esS	C	45 44	h = 126 km
	eSP	C	46 15	PV A 1.4s 348.8nm M = 6.4
	eSS	C	51 44	
	e(PKKP)	A	52 09	
18.	eP	A	18 53 45	Tibet 35.17 N 86.57 E
	eS	B	19 01 32	H = 18 44 16.4 h = normal MB=5.3 MS=5.8
	LmH	B	16.4	D = 54.72 Az = 311.1 (NEIS)
	LmV	B	18.2	PV A 2.4s 96.6nm M = 5.4
				LmH B 16 6.7/um 5.8
				LmV B 16 3.5/um 5.6

Day	Phase		h m s	Remarks
18.	ePKP2	A	23 24 29	Tonga Islands 21.45 S 174.32 W
				H = 23 04 32.3 h = normal MB=4.6 MS=4.9
				D = 150.49 Az = 352.3 (NEIS)
19.	eP	A	12 17 34.5	Kurile Islands 44.13 N 147.15 E
				H = 12 05 44.8 h = 100 km MB = 4.3
				D = 78.01 Az = 332.9 (NEIS)
19.	ePn	A	13 29 56	Northern Italy 46.48 N 12.79 E
	ePg	A	30 17	H = 13 28 49.6 h = 3 km
	eSn	A	30 45	D = 4.24 Az = 349.8 (NEIS)
	eSb2	A	31 05.5	
	eSg	A	31 12	
19.	+iPKP	A	14 01 56.5	Samoa Islands Region 15.84 S 172.04 W
				H = 13 42 21.0 h = normal MB=5.2 MS=5.0
				D = 145.15 Az = 355.9 (NEIS)
				PKIKPV A 1.4s 60.5nm
20.	eP	A	03 35 38	Andreanof Islands, Aleutian Is.
				50.36 N 176.00 W
				H = 03 23 33.5 h = 27 km MB = 4.9
				D = 79.17 Az = 355.1 (NEIS)
				PV A 1.3s 21.8nm M = 5.0
20.	eP	A	06 54 26	Southern Greece 37.31 N 21.43 E
	LmH	B	59.9	H = 06 50 59.2 h = 65 km MB = 4.2
				D = 15.07 Az = 335.3 (NEIS)
				LmH B 13s 1.3/um M = 4.3
20.	eP	A	07 23 29.5	Andreanof Islands, Aleutian Is.
				51.26 N 179.63 W
				H = 07 11 35.7 h = 53 km MB = 4.9
				D = 78.02 Az = 352.7 (NEIS)
				PV A 2.3s 48.8nm M = 5.1
20.	+eP	A	07 42 32	Andreanof Islands, Aleutian Is.
	LmH	B	08 21.1	51.32 N 179.56 W

Day	Phase		h m s	Remarks
cont. 20.	LmV	B	08 26.0	H = 07 30 38.8 h = 57 km MB = 5.4
				D = 77.97 Az = 352.8 (NEIS)
				PV A 1.5s 85.5nm M = 5.5
				LmH B 18 1.3/um
				LmV B 16 1.1/um
21.	eP	A	00 40 46.5	Carlsberg Ridge 2.34 S 68.10 E
				H = 00 29 28.8 h = normal MB = 4.9
				D = 71.34 Az = 325.9 (NEIS)
21.	-ePKP	A	04 42 46	New Hebrides Islands 20.21 S 169.52 E
	+ipPKP	A	43 14	H = 04 23 21.2 h = 107 km MB = 5.4
				D = 144.97 Az = 335.3 (NEIS)
				h = 103 km
				PKPV A 1.0s 98.5nm
				pPKPV A 1.2 89.4nm
22.	e(Sg)	A	03 29 39.5	
22.	eP	A	14 06 52	Kurile Islands 45.59 N 150.88 E
				H = 13 54 56.4 h = normal MB = 4.9
				D = 77.86 Az = 334.9 (NEIS)
				PV A 1.3s 17.5nm M = 4.9
22.	+eP	AB	15 40 45	West Pakistan 29.97 N 68.98 E
	eS	C	47 44	H = 15 32 15.4 h = 42 km MB = 5.1
	eSS	C	51 20	D = 47.06 Az = 312.9 (NEIS)
	LmH	B	16 03.8	PV A 1.5s 42.7nm M = 5.2
	LmV	B	05.7	LmH B 18 1.2/um 4.9
				LmV B 12 1.3/um 5.2
22.	eP	A	19 05 52	Near East Coast of Kamchatka
	e	A	06 03.5	54.51 N 161.57 E
				H = 18 54 26.7 h = normal MB=5.2 MS=4.7
				D = 72.24 Az = 340.4 (NEIS)
				PV A 1.4s 23.2nm M = 5.0

Day	Phase		h m s	Remarks
23.	eP	AB	07 45 12	Taiwan Region 22.74 N 122.80 E
	ePP	B	48 40	H = 07 32 36.5 h = 21 km MB=6.2 MS=6.6
	eS	B	55 40	D = 85.19 Az = 323.4 (NEIS)
	eSP	B	56 40	PV A 1.9s 568.0nm M = 6.5
	eSS	B	08 01 08	PV B 6 2.7/um 6.7
	ePKKP	A	03 24	SH B 17 7.6/um 6.5
	eP'P'	A	11 29.5	PKKPV A 1.6 27.5nm
	LmH	B	27.4	P'P'V A 1.9 34.1nm
	LmV	B	29.0	LmH B 18 89.6/um 7.2
				LmV B 17 69.1/um 7.1
23.	LmH	B	14 20.9	Taiwan Region 22.73 N 122.81 E
	LmV	B	23.0	H = 13 26 08.2 h = 41 km MB = 4.3 (ISC)
				D = 85.1
				LmH B 18s 0.55/um M = 5.0
				LmV B 18 0.65/um 5.1
23.	+iP	A	20 00 00	Kurile Islands 46.70 N 152.55 E
	LmH	C	33.5	H = 19 48 07.8 h = normal MB=5.5 MS=4.4
	LmV	C	36.4	D = 77.34 Az = 335.7 (NEIS)
				PV A 1.0s 78.7nm M = 5.7
				LmH C 22 0.8/um 5.0
				LmV C 20 0.5/um 4.9
24.	ePn	AB	02 34 25.5	Austria 46.29 N 13.13 E
	ePg	A	34 40	H = 02 33 18.5 h = 21 km MB = 4.2
	eSn	A	35 18	D = 4.47 Az = 347.6 (NEIS)
	eSg	AB	35 39	PnV A 0.7s 303.0nm
	LmH	B	36.3	LmH B 9 2.3/um M = 3.8
	LmV	B	36.3	LmV B 9 2.8/um
24.	eP	AB	05 42 17	West Pakistan 29.55 N 68.60 E
	eS	B	49 18	H = 05 33 46.6 h = 26 km MB=5.5 MS=5.4
	eSS	C	52 42	D = 47.11 Az = 313.2 (NEIS)
	LmH	C	06 06.9	PV A 1.6s 160.0nm M = 5.8
	LmV	C	08.9	LmH C 13.5 5.1/um 5.6
				LmV C 14 2.7/um 5.4

Day	Phase		h m s	Remarks
24.	eP	A	07 12 38	Near Coast of Guatemala
	LmH	B	54.3	13.63 N 90.77 W
	LmV	B	54.5	H = 06 59 56.5 h = 59 km MB = 4.9
				D = 87.26 Az = 38.5 (NEIS)
				LmH B 16s 0.6/um
				LmV B 20 1.0/um
24.	ePKIKP	A	15 44 06	Fiji Islands Region 21.19 S 179.05 W
	-iPKHKP	A	44 11	H = 15 25 32.4 h = 652 km MB = 5.3
	ePKP2	A	44 19	D = 149.43 Az = 346.6 (NEIS)
				PKHKPV A 1.4s 88.4nm
				PKP2V A 1.3 69.9nm
25.	e	A	00 37 08.5	Tonga 20.5 S 173.7 W
				H = 00 17 02.6 h = 0 km MB = 4.9
				D = 149.65 Az = 353 (ISC)
25.	eP	A	02 44 07	Near Coast of Guatemala 13.65 N 90.74 W
	LmH	B	03 27.0	H = 02 31 22.2 h = normal MB=5.2 MS=5.
	LmV	B	28.6	D = 87.23 Az = 38.5 (NEIS)
				LmH B 19.5s 1.8/um M = 5.5
				LmV B 16 1.7/um 5.6
25.	eP	A	02 57 10	Crete 34.59 N 23. 70 E
				H = 02 52 57.2 h = normal MB = 4.4
				D = 18.30 Az = 334.9 (NEIS)
25.	eP	A	06 55 17.5	Catamarca Prov., Argentina
	ePP	A	59 33	27.96 S 66.66 W
	epPP	A	07 00 15	H = 06 41 33.0 h = 178 km MB = 5.9
	eSKS	BC	05 46	D = 104.19 Az = 40.0 (NEIS)
	e	BC	06 28	PV A 1.3s 21.8nm M = 5.9
	e	BC	07 00	PPV A 1.6 49.5nm 5.5
	ePS	C	08 06	PKKP2V A 2.0 102.6nm
	eSP	C	08 24	LmH B 19 1.4/um
	esPS	C	09 45	LmV B 18 1.3/um
	ePKKP1	A	11 06	
	ePKKP2	A	11 26	
	eSS	C	14 15	

Day	Phase		h m s	Remarks
cont. 25.	LmV	B	07 42.4	
	LmH	B	45.2	
25.	ePKP2	A	13 57 13	Tonga Islands Region 23.69 S 175.16 W
				H = 13 37 05.5 h = normal MB=4.6 MS=4.7
				D = 152.58 Az = 350.6 (NEIS)
				PKP2V A 1.5s 15.1nm
25.	LmV	C	22 24.5	New Hebrides Islands 16.55 S 167.46 E
	LmH	C	25.5	H = 21 05 28.9 h = 14 km MB=5.1 MS=4.7
				D = 140.85 Az = 335.6 (NEIS)
				LmH C 21s 0.6/um M = 5.3
				LmV C 25 0.4/um 5.1
26.	eP	A	03 50 40.5	Lake Tanganyika Region 5.45 S 30.21 E
	LmH	B	04 14.6	H = 03 40 48.3 h = normal MB = 5.1
	LmV	B	14.9	D = 58.13 Az = 346.2 (NEIS)
				PV A 1.7s 48.5nm M = 5.3
				LmH B 18.5 2.5/um 5.4
				LmV B 17 1.7/um 5.3
26.	iP	A	18 14 24	Near East Coast of Kamchatka
				53.11 N 159.80 E
				H = 18 02 54.6 h = normal MB = 5.2
				D = 73.20 Az = 339.5 (NEIS)
				PV A 1.1s 28.2nm M = 5.2
26.	LmH	B	19 15.7	Taiwan Region 22.71 N 122.69 E
	LmV	B	18.4	H = 18 21 54.1 h = 33 km MB = 4.7
				D = 85.14 Az = 323.4 (NEIS)
26.	eP	A	23 33 12	Celebes Sea 3.58 N 121.91 E
	e	A	33 23	H = 23 19 28.7 h = normal MB = 5.3
	ePP	A	37 18.5	D = 99.93 Az = 322.7 (NEIS)
	eSS	C	51 28	PV A 1.2s 16.3nm M = 5.4
	LmV	B	24 26.4	PPV A 1.4 14.0nm 5.2
	LmH	B	26.7	LmH B 16 0.8/um 5.3
				LmV B 16 0.9/um 5.4

Day	Phase		h m s	Remarks
27.	eP	AB	05 18 32.5	Turkey 40.42 N 26.14 E
	ei	A	18 53	H = 05 15 06.2 h = 5 km MB=5.7 MS=6.7
	ei	A	19 01	D = 14.40 Az = 320.1 (NEIS)
	eiS	B	21 14	PV A 2.2s 621.0nm M = 5.9
	LmH	B	23.5	PV B 8.5 2.2/um 5.9
	LmV	B	24.9	LmH B 15.5 326.0/um 6.5
				LmV B 14 143.0/um
27.	eP	A	06 19 11	Turkey 40.39 N 26.16 E
	eX	A	19 19	H = 06 15 46.3 h = normal MB = 4.8
	e	A	19 29.5	D = 14.43 Az = 320.1 (NEIS)
				XV A 1.6s 38.5nm
27.	eP	A	18 11 39.5	Taiwan Region 22.63 N 122.76 E
	LmH	B	53.7	H = 17 59 04.1 h = normal MB = 4.9
	LmV	B	55.8	D = 85.25 Az = 323.4 (NEIS)
				LmH B 17.5s 0.9/um M = 5.2
				LmV B 16 0.7/um 5.2
27.	eP	A	19 46 11	Turkey 40.42 N 25.99 E
	e	A	46 17.5	H = 19 42 42.0 h = 5 km MB = 4.6
	LmH	B	52.4	D = 14.33 Az = 320.3 (NEIS)
	LmV	B	52.4	LmH B 13s 1.0/um M = 4.1
				LmV B 14 0.9/um
28.	eP	AB	02 42 54	Eastern Idaho 42.06 N 112.55 W
	ePP	B	45 46	H = 02 31 05.7 h = 5 km MB=6.1 MS=6.0
	eS	B	52 38	D = 75.62 Az = 32.9 (NEIS)
	eSS	C	57 25	PV A 2.0s 445.0nm M = 6.2
	LmH	B	03 14.3	PV B 8 2.3/um 6.3
	LmV	B	18.3	LmH B 18.5 8.7/um 6.1
				LmV B 15 10.0/um 6.3
28.	eP	A	07 48 30	Mongolia 46.49 N 91.79 E
				H = 07 39 31.2 h = normal MB = 4.6
				D = 50.76 Az = 305.9 (NEIS)

Day	Phase		h m s	Remarks
29.	LmH	B	02 04.3	Straits of Gibraltar 36.03 N 3.17 W
	LmV	B	05.7	H = 01 53 38 h = 25 km MB = 4.4 (ISC)
				D = 18.2
				LmH B 12s 0.4/um M = 3.9
				LmV B 12 0.45/um 4.1
29.	eP1	AB	09 45 05	Eastern Gulf od Aden 13.33 N 50.74 E
	iP2	A	45 12	H = 09 36 21.0 h = normal MB=5.4 Ms=5.6
	ePP	BC	47 04	D = 48.90 Az = 327.8 (NEIS)
	ePPPP	C	48 06	P1V A 2.0s 128.0nm M = 5.6
	eS	B	52 10	P2V A 1.5 110.8nm 5.7
	eSS	B	56 00	SH B 10 2.2/um 6.0
	LmH	B	10 10.9	LmH B 17.5 2.9/um 5.3
	LmV	B	11.0	LmV B 17 2.3/um 5.3
29.	ePKIKP	A	15 22 23.5	South Pacific Ocean 37.77 S 138.90 W
				H = 15 02 29.6 h = 0 km MB = 5.0
				D = 155.44 Az = 51 (ISC)
				PKIKPV A 1.9s 45.5nm
29.	LmH	B	15 48.0	Greece 38.22 N 22.80 E
	LmV	B	49.4	H = 15 38 49.1 h = normal MB = 3.7
				D = 14.75 Az = 331.0 (NEIS)
29.	+iP	A	20 09 15.0	Near East Coast of Honshu, Japan
	ePP	A	12 15	36.16 N 139.99 E
	LmH	B	44.6	H = 19 57 00.9 h = 84 km MB = 5.3
	LmV	B	50.8	D = 82.35 Az = 329.8 (NEIS)
				PV A 1.1s 36.3nm M = 5.2
29.	ePKHKP	A	20 15 35	South of Fiji Islands 23.34 S 179.76 W
	ePKP2	A	15 45	H = 19 56 40.1 h = 502 km
				D = 151.3 Az = 345 (ISC)
30.	eP	A	13 06 47	Turkey 40.5 N 26.3 E
	LmH	B	11.7	H = 13 03 20 (BCIS)
	LmV	B	13.0	D = 14.45
				LmH B 12s 0.6/um M = 3.9
				LmV B 12 0.7/um

Day	Phase		h m s	Remarks
30.	eP	C	22 46 10	Bouvet Islands Region 54.24 S 8.7 E
	ePP	AB	50 28	H = 22 32 01.8 h = 0 km MB = 5.6
	eSKS	C	56 58	D = 104.54 Az = 2 (ISC)
	eS	C	58 10	PSH B 21s 4.6/um
	eiPS	BC	59 40	LmH B 19 11.5/um M = 6.4
	e	C	23 00 28	LmV B 18.5 12.6/um 6.4
	eSS	C	05 14	
	LmH	B	33.3	
	LmV	B	33.3	
30.	+ePKHKP	A	22 54 27	Loyalty Islands Region 22.22 S 171.33 E
				H = 22 34 57.6 h = 129 km MB = 4.9
				D = 147.49 Az = 336 (ISC)
				PKHKPV A 1.2s 28.4nm
31.	+eP	A	01 49 57.5	East China Sea 27.00 N 126.37 E
				H = 01 37 41.0 h = 126 km MB = 5.2
				D = 83.67 Az = 324.4 (NEIS)
				PV A 1.8s 47.4nm M = 5.1
31.	-eP	AB	03 04 33	Taiwan Region 22.77 N 122.91 E
	eS	C	15 10	H = 02 51 58.4 h = 32 km MB = 5.5
	LmH	B	45.8	D = 85.22 Az = 323.5 (NEIS)
	LmV	B	48.5	PV A 1.2s 44.7nm M = 5.5
				LmH B 17.5 1.6/um 5.5
				LmV B 13.5 2.4/um 5.8
31.	eP	A	06 00 10.5	Vancouver Island Region
				49.40 N 125.60 W
				H = 05 48 37.8 h = 33 km MB = 5.3
				D = 73.83 Az = 26.8 (NEIS)
				PV A 1.0s 19.7nm
31.	eP	A	08 31 23	Rumania 45.63 N 26.36 E
				H = 08 28 46.2 h = 140 km MB = 4.7
				D = 11.05 Az = 302.3 (NEIS)
				PV A 2.0s 42.7nm M = 4.8

Day	Phase		h m s	Remarks
31.	eP1	A	10 14 21.5	Mongolia 46.71 N 91.29 E
	eP2	A	14 26.5	H = 10 05 25.9 h = normal MB=5.3 MS=5.4
	eS	C	21 35	D = 50.35 Az = 305.6 (NEIS)
	LmV	B	11 39.2	P1V A 1.0s 27.6nm M = 5.2
	LmH	B	42.2	P2V A 2.0 102.6nm 5.5
				LmH B 9.5 4.0/um 5.7
				LmV B 10.5 4.8/um 5.9
31.	ePKHKP	A	11 02 13	Tonga Region 23.09 S 175.06 W
	ePKP	A	02 25	H = 10 42 20.4 h = 46 km MB=5.1 MS=5.2
				D = 152.0 (NEIS)
				PKHKPV A 2.2s 43.6nm
31.	ePKHKP	A	19 16 38	Kurile Islands 44.68 N 149.84 E
				H = 19 04 39.1 h = normal MB = 4.8
				D = 78.37 Az = 334.3 (NEIS)
				PKHKPV A 1.5s 35.2nm

Day	Phase		h m s	Remarks
1.	ePKHKP	A	02 05 25	Loyalty Islands Region 22.4 S 169.8 E
	ePKP2	A	05 33.5	H = 01 45 46 h = 33 km
				D = 147.06 Az = 334 (ISC)
				PKHKPV A 1.2s 12.2nm
1.	ePKHKP	A	03 14 01	South of Fiji Islands 24.83 S 178.50 E
				H = 02 55 08.2 h = 584 km MB = 4.8
				D = 152.30 Az = 341.9 (NEIS)
1.	eP	A	19 33 14.	Kurile Islands 48.18 N 154.84 E
	LmH	C	20 10.0	H = 19 21 25.9 h = 35 km MB = 5.1
	LmV	C	10.0	D = 76.60 Az = 336.9 (NEIS)
				LmH C 19s 0.5/um M = 4.9
				LmV C 20 0.45/um 4.8
2.	e(Sg)	A	03 40 21.5	Upper Silesia, Poland (CLL)
2.	eP	A	03 56 54	Southeast of Taiwan 22.64 N 122.97 E
	LmH	B	04 39.0	H = 03 44 18.3 h = 33 km MB = 5.0
	LmV	B	40.0	D = 85.35 Az = 323.5 (NEIS)
				PV A 1.7s 30.3nm M = 5.2
				LmH B 15 0.3/um 4.8
				LmV B 15 0.45/um 5.0
2.	eP	AB	08 56 28	South of Honshu, Japan 33.60 N 140.37 E
	ePP	AB	59 41.5	H = 08 44 00.4 h = 71 km MB = 5.6
	eS	B	09 06 49	D = 84.72 Az = 330.1 (NEIS)
	LmV	B	37.3	PV A 1.4s 69.7nm M = 5.5
	LmH	B	37.5	PPV A 2.0 94.0nm 5.9
				PPV B 4 0.4/um 6.2
				LmH B 15.5 2.2/um 5.7
				LmV B 16 1.8/um 5.6
2.	ePKIKP	A	10 51 19	Tonga Islands Region 23.02 S 175.11 W
	ePKHKP	A	51 25.5	H = 10 31 32.0 h = normal MB=5.6
	ePKP2	A	51 36	MS = 5.3 (NEIS)
	eX	A	51 43	D = 151.93

Day	Phase		h m s	Remarks
cont.				
2.	LmH	C	11 52.7	PKIKPV A traces
	LmV	C	55.6	PKHKPV A 1.3s 39.3nm
				XV A 1.4 39.5nm
				LmH C 25 0.45/um M = 5.1
				LmV C 24 0.6/um 5.3
2.	eP	A	16 16 24	Taiwan Region 22.81 N 122.89 E
				H = 16 03 50.1 h = 55 km MB = 4.6
				D = 85.18 Az = 323.5 (NEIS)
2.	e	A	19 10 19	
3.	ePKIKP	A	03 33 21	Santa Cruz Islands 12.18 S 166.63 E
				H = 03 14 11.5 h = 117 km MB = 5.3
				D = 136.55 Az = 337.0 (NEIS)
3.	eP	A	06 39 28	Luzon, Philippine Islands
				16.97 N 120.30 E
				H = 06 26 44.3 h = 83 km MB = 5.2
				D = 88.37 Az = 322.9 (NEIS)
				PV A 1.2s 28.5nm M = 5.3
3.	eP	A	14 46 12	Near East Coast of Honshu, Japan
				40.84 N 141.92 E
				H = 14 34 14.3 h = 75 km MB = 5.0
				D = 79.06 Az = 330.4 (NEIS)
				PV A traces
3.	eP	A	16 27 19	Kurile Islands Region 43.63 N 148.81 E
				H = 16 15 16.4 h = normal MB = 4.5
				D = 78.99 Az = 333.8 (NEIS)
4.	eP	AB	05 19 41.5	Greece 38.09 N 21.98 E
	Pm	AB	20 08	H = 05 16 16.2 h = 53 km MB = 5.4
	eS	B	22 32	D = 14.56 Az = 332.9 (NEIS)
	LmH	C	24.5	PV A 1.0s 31.5nm M = 4.7
	LmV	C	26.0	PmV A 1.5 185.9nm 5.3
				LmH C 30 9.5/um 4.7
				LmV C 22 9.4/um

Day	Phase		h m s	Remarks
4.	LmH	B	06 52.8	LmH B 17s 0.35/um
4.	ePn	A	09 12 29.5	Northern Italy 44.13 N 11.05 E
	eSn	A	13 39	H = 09 10 53.4 h = normal MB = 4.6
	eSg	A	14 26	D = 6.53 Az = 3.2 (NEIS)
4.	ePKIKP	AB	11 32 02	Kermadec Islands Region
	ePKHKP	A	32 15.5	31.05 S 178.40 W
	ePKP2	A	32 39	H = 11 12 08.0 h = 45 km MB=5.5 MS=5.3
	e	A	32 44	D = 159.05 Az = 342.0 (NEIS)
	LmV	B	12 46.5	PKIKPV A 2.4s 96.7nm
	LmH	B	46.6	LmH B 21.5 0.8/um M = 5.4
				LmV B 20 0.7/um 5.5
4.	+eP	AB	17 53 09.5	Malagasay Republic 21.24 S 45.10 E
	eS	B	18 03 00	H = 17 41 16.3 h = normal MB=5.4 MS=5.6
	eSS	C	08 20	D = 77.43 Az = 338.9 (NEIS)
	LmH	B	32.8	PV A 1.8s 94.5nm M = 5.5
	LmV	B	36.8	LmH B 16.5 2.0/um 5.5
				LmV B 17 2.5/um 5.6
4.	ePKP	A	20 11 19	Loyalty Islands Region 21.77 S 170.8 E
				H = 19 51 46 h = 89 km
				D = 146.88 Az = 336 (ISC)
5.	eP	AB	09 46 27	Venezuela 10.04 N 69.76 W
	eS	B	56 14	H = 09 34 36.6 h = 33 km MB=5.6 MS=6.1
	ePS	B	56 48	D = 76.84 Az = 40.3 (NEIS)
	LmV	B	10 19.1	LmH B 17.5s 3.1/um M = 5.7
	LmH	B	24.4	LmV B 20 2.7/um 5.6
5.	eP	AB	17 04 21.5	Off East Coast of Kamchatka
	eS	B	14 04	52.20 N 160.19 E
	LmH	B	39.0	H = 16 52 47.2 h = normal MB=5.5 MS=5.3
	LmV	B	47.4	D = 74.14 Az = 339.8 (NEIS)
				PV A 1.0s 78.7nm M = 5.7
				LmH B 16.5 6.8/um 6.0
				LmV B 15 2.7/um 5.7

Day	Phase		h m s	Remarks
5.	eP	AB	18 01 32.5	Off East Coast of Kamchatka
	e	A	01 39.5	52.34 N 160.05 E
	e	A	01 51.5	H = 17 49 58.9 h = normal MB=5.5 MS=5.5
	eS	B	11 06	D = 73.97 Az = 339.7 (NEIS)
	eSKS	B	11 30	LmH B 17s 9.9/um M = 6.2
	LmH	B	36.3	LmV B 15 4.9/um 6.0
	LmV	B	40.6	
5.	eP	A	19 57 19	Southern Nevada 37.19 N 116.21 W
				H = 19 45 00.0 h = 0 km MB = 4.8
				D = 81.24 Az = 30.6 (NEIS)
				Nuclear explosion DINING CAR (USAEC)
				PV A 1.2s 12.2nm M = 4.8
5.	eP	A	20 50 38	Maracaibo, Venezuela 10.13 N 75.70 W
	eS	B	21 00 45	H = 20 38 30.1 h = 52 km MB = 5.5
	eSS	C	05 42	D = 80.56 Az = 40.1 (NEIS)
	LmH	B	21.2	PV A 1.6s 44.0nm M = 5.1
	LmV	B	28.3	LmH B 21.5 1.9/um 5.4
				LmV B 18 1.7/um 5.5
5.	eP	A	22 05 42.5	Near East Coast of Kamchatka
				55.1 N 162.2 E
				H = 21 54 20 h = 33 km MB = 4.5
				D = 71.46 Az = 341 (ISC)
6.	ePKHKP	A	00 31 01	South of Fiji Islands 23.29 S 179.02 E
	epPKP	A	33 06	H = 00 12 02.8 h = 464 km MB = 4.9
				D = 150.98 Az = 343.4 (NEIS)
6.	+iP	AB	10 06 53.5	Off East Coast of Kamchatka
	eS	B	16 20	52.16 N 160.24 E
	LmH	B	41.5	H = 09 55 18.9 h = normal MB=5.6 MS=6.2
	LmV	B	45.8	D = 74.19 Az = 339.8 (NEIS)
				PV A 1.2s 122.0nm M = 5.8
				LmH B 17 51.4/um 6.9
				LmV B 16 28.8/um 6.7

Day	Phase		h m s	Remarks
6.	e(P)	A	13 47 37	Off East Coast of Kamchatka
				52.35 N 160.07 E
				H = 13 35 58.5 h = normal MB = 4.9
				D = 73.97 Az = 339.7 (NEIS)
6.	eP	A	13 57 13	Off East Coast of Kamchatka
				52.35 N 160.1 E
				H = 13 45 39.4 h = normal MB = 4.5
				D = 73.97 Az = 339.7 (NEIS)
6.	eP	A	15 48 25	Off East Coast of Kamchatka
				52.18 N 159.85 E
				H = 15 36 50.4 h = normal MB = 4.6
				D = 74.08 Az = 339.6 (NEIS)
7.	eP	A	01 52 58.5	Near Coast of Ecuador 1.96 S 80.30 W
				H = 01 39 50.5 h = 62 km MB = 4.9
				D = 92.72 Az = 39.6 (NEIS)
				PV traces
7.	eP	A	03 40 49	Off East Coast of Kamchatka
				52.15 N 160.25 E
				H = 03 29 14.4 h = normal MB = 4.8
				D = 74.19 Az = 339.9 (NEIS)
7.	+eP	A	08 14 00.5	Southern Sumatra 1.65 S 99.72 E
	e	A	14 13.5	H = 08 00 59.8 h = 18 km MB=5.4 MS=5.1
				D = 90.06 Az = 320.5 (NEIS)
7.	eP	A	14 51 06	Off Coast of South Africa
				37.52 S 30.88 E
				H = 14 38 10.5 h = 25 km MB = 5.1
				D = 89.42 Az = 347.9 (NEIS)
7.	eP	A	18 02 33	Off East Coast of Kamchatka
				52.40 N 159.79 E
				H = 17 50 59.5 h = normal MB=5.0 MS=4.4
				D = 73.86 Az = 339.5 (NEIS)
				PV A 2.0s 85.5nm M = 5.4

Day	Phase		h m s	Remarks
cont.				
7.	LmH	C	18 33.5	LmH C 22s 0.6/um M = 4.8
	LmV	C	34.4	LmV C 26 0.4/um 4.6
7.	LmH	B	23 07.7	Tanimbar Islands Region 6.36 S 131.25 E
	LmV	B	08.0	H = 22 12 49.5 h = 33 km MB = 5.6 (ISC)
				D = 113.5
				LmH B 18s 0.6/um M = 5.3
				LmV B 18 0.9/um 5.4
8.	eP	A	00 48 45	West Pakistan 26.45 N 66.36 E
				H = 00 40 04.5 h = 27 km MB = 4.3
				D = 47.85 Az = 315.5 (NEIS)
8.	eP	A	01 57 27	Azores Islands Region 42.67 N 29.31 W
	LmH	B	02 07.7	H = 01 51 30.0 h = normal MB=4.9 MS=4.8
	LmV	B	07.7	D = 28.89 Az = 59.7 (NEIS)
				LmH B 17s 1.5/um M = 4.7
				LmV B 18 1.3/um 4.7
8.	+iP	AB	06 39 28.3	Near East Coast of Honshu, Japan
	LmH	B	07 14.2	37.72 N 141.65 E
	LmV	B	18.2	H = 06 27 13.3 h = 46 km MB=5.8 MS=5.3
				D = 81.66 Az = 330.5 (NEIS)
				PV A 1.4s 139.0nm M = 5.8
				LmH B 16 2.2/um 5.6
				LmV B 16 2.2/um 5.6
8.	eP	A	11 42 50	Azores Islands Region 42.69 N 29.41 W
	LmH	B	53	H = 11 36 53.8 h = normal MB=5.2 MS=5.0
	LmV	B	56	D = 28.95 Az = 59.7 (NEIS)
				PV A 1.6s 22.0nm M = 4.6
				LmH B 18 1.1/um 4.5
				LmV B 16 1.5/um 4.8
8.	LmV	C	16 32.0	LmV C 21c 0.55/um

Day	Phase		h m s	Remarks
8.	-eP	A	20 44 21	Aleutian Islands Region
				51.90 N 166.21 W
				H = 20 32 24.9 h = normal MB = 5.4
				D = 77.82 Az = 1.4 (NEIS)
				PV A 1.2s 32.5nm M = 5.2
8.	eP	A	22 02 22	Off East Coast of Kamchatka
				51.60 N 159.53 E
				H = 21 50 44.2 h = normal MB = 4.9
				D = 74.55 Az = 339.5 (NEIS)
9.	eP	A	03 38 12.5	Tibet 30.41 N 84.89 E
				H = 03 28 28.6 h = normal MB = 4.9
				D = 56.86 Az = 313.3 (NEIS)
				PV A 1.3s 17.5nm M = 5.0
9.	ePKIKP	AB	06 45 05.5	New Britain Region 4.04 S 152.69 E
	epPKIKP	A	45 33	H = 06 26 22.2 h = 133 km MB = 6.3
	esPKIKP	A	45 44	D = 123.23 Az = 331.4 (NEIS)
	ePP	AB	46 48	PKIKPV A 1.5s 80.4nm
	epPP	B	47 18	PPV A 1.9 178.0nm M = 5.8
	ePKKP	A	55 35	PPV B 9 1.2/um 5.9
	ePS	B	56 28	SKKPV A 1.8 37.2nm
	eSKKP	A	58 37	LmH B 17 4.3/um
	eSS	B	07 03 12	LmV B 17 2.8/um
	esSS	B	04 16	
	LmH	B	33.5	
	LmV	B	42.1	
9.	eP	A	15 16 42	Samar, Philippine Islands
	ePP	A	20 35	11.67 N 125.46 E
	LmH	C	16 03.6	H = 15 03 20.5 h = 48 km MB = 5.4
	LmV	C	03.8	D = 95.58 Az = 324.2 (NEIS)
				PV A 1.5s 25.1nm M = 5.5
				PPV A 1.8 27.0nm 5.4
				LmH C 18 0.6/um 5.1
				LmV C 20 0.5/um 5.0

Day	Phase		h m s	Remarks
9.	eP	A	20 05 51.5	North-Eastern China 40.7 N 122.53 E
	LmH	B	41.4	H = 19 55 36 h = 27 km MB = 4.6
	LmV	B	41.5	D = 70.81 Az = 321 (ISC)
				PV A 2.0s 25.6nm M = 4.9
				LmH B 14 0.55/um 5.0
				LmV B 14 0.3/um 4.7
9.	-iP	A	22 33 31.5	Tadzhik SSR 38.07 N 72.69 E
				H = 22 25 28.1 h = 78 km MB = 5.5
				D = 44.23 Az = 307.0 (NEIS)
				PV A 1.2s 48.8nm M = 5.2
10.	e	A	02 34 52	Off East Coast of Kamchatka
				52.50 N 160.16 E
				H = 02 23 05.3 h = normal MB = 4.6
				D = 73.85 Az = 339.8 (NEIS)
10.	ePKIKP	A	15 38 48	Solomon Islands 6.71 S 155.98 E
				H = 15 19 59.2 h = 148 km MB = 5.2
				D = 127.12 Az = 332.3 (NEIS)
10.	LmH	B	16 52.4	South East Indian Ridge
	LmV	B	54.5	47.59 S 99.9 E
				H = 15 36 09 h = 38 km MB = 5.1 (ISC)
				D = 123.7
				LmH B 17s 0.3/um M = 5.1
				LmV B 18 0.6/um 5.3
10.	ePKHKP	A	17 09 47	Loyalty Islands Region 22.44 S 173.09 E
				H = 16 50 12.2 h = 113 km MB = 5.0
				D = 148.34 Az = 337.3 (NEIS)
10.	eiPKP	A	18 31 39	Samoa Islands Region 15.58 S 171.94 W
				H = 18 12 01.6 h = 15 km MB = 5.1
				D = 144.91 Az = 356.1 (NEIS)
				PKPV A 1.3s 65.5nm

Day	Phase		h m s	Remarks
11.	ePKHKP	AB	00 30 16	South of Australia 50.80 S 139.10 E
	iPKP2	A	30 19.5	H = 00 10 35.1 h = normal MB=5.8 MS=6.3
	e	A	30 42	D = 147.33 Az = 290.6 (NEIS)
	eSKKS	C	40 28	PKHKPV A 1.8s 87.8nm
	eSS	C	52 40	PKP2V A 1.3 131.0nm
	ePSPS	C	53 58	PKP2V B 5 3.1/um
	eSSS	C	58 00	LmH B 23 5.7/um M = 6.2
	LmH	B	01 36.2	LmV B 19 4.1/um 6.2
	LmV	B	41.7	
11.	+eP	AB	10 58 59.5	Unimak Island Region 54.10 N 163.25 W
	LmV	B	11 41.7	H = 10 47 15.3 h = 20 km MB=5.5 MS=5.2
	LmH	B	44.5	D = 75.54 Az = 3.4 (NEIS)
				LmH B 16.5s 0.6/um M = 5.0
				LmV B 16 0.6/um 5.0
11.	ePKP	A	12 01 22	Fiji Islands Region 17.70 S 178.80 W
				H = 11 42 46.1 h = 571 km MB = 5.6
				D = 146.09 Az = 348.1 (NEIS)
				PKPV A 1.6s 38.5nm
11.	eP	A	22 28 04.5	Honshu, Japan 36.11 N 139.90 E
				H = 22 15 48.1 h = 65 km MB = 5.1
				D = 82.36 Az = 329.7 (NEIS)
				PV A 1.3s 19.7nm M = 5.0
12.	eP	A	13 23 59	North Atlantic Ridge 52.00 N 30.16 W
	e	A	24 14	H = 13 18 28.9 h = normal MB=4.7 MS=4.1
				D = 25.89 Az = 76.3 (NEIS)
				PV A 1.7s 24.2nm M = 4.5
12.	eP	A	15 46 37	Peru 14.77 S 72.71 W
	e	A	50 21	H = 15 33 08.6 h = 81 km MB = 5.9
	ePP	A	50 33	D = 97.72 Az = 39.7 (NEIS)
	LmH	B	16 29.5	PV A 2.0s 42.7nm M = 5.6
	LmV	B	34.6	LmH B 20 0.7/um
				LmV B 18 0.8/um

Day	Phase		h m s	Remarks
12.	eP	A	16 49 58	Sicily 38.39 N 15.52 E
	e	A	50 02	H = 16 47 01.8 h = 172 km MB = 4.4
				D = 12.56 Az = 348.5 (NEIS)
				PV A 1.2s 20.3nm M = 4.5
12.	e	A	18 15 20	
12.	ePn	A	19 53 53.5	France 45.09 N 7.92 E
	eSn	A	55 02	H = 19 52 26.3 h = 33 km
	eSg	A	55 43	D = 6.09 (NEIS)
12.	ePKIKP	A	21 09 06	South of Fiji Islands 25.70 S 177.70 W
	ePKHKP	A	09 15	H = 20 49 36.0 h = 177 km MB = 4.9
	ePKP2	A	09 29	D = 154.08 Az = 346.4 (NEIS)
13.	eP	A	00 31 24	Near East Coast of Honshu, Japan
				37.55 N 141.88 E
				H = 00 19 08.5 h = 50 km MB = 5.0
				D = 81.90 Az = 330.6 (NEIS)
				PV A 1.3s 17.5nm M = 4.9
13.	+eP	AB	01 47 58.5	Mindanao, Philippine Islands
	ePP	C	52 06	5.68 N 125.38 E
	epPP	C	53 20	H = 01 34 36.2 h = 225 km MB = 5.7
	e	A	55 24	D = 100.35 Az = 323.7 (NEIS)
	eSKS	C	58 10	PV A 1.7s 54.6nm M = 5.7
	eS	C	59 16	LmH B 17 2.2/um
	eSP	C	02 00 40	LmV B 16 1.2/um
	esPS	C	02 10	
	esSS	C	07 35	
	LmH	B	32.2	
	LmV	B	37.5	
13.	eP	A	02 05 49	Colombia 4.81 N 75.76 W
	epP	A	06 26	H = 01 53 30.7 h = 144 km MB = 5.2
				D = 84.64 Az = 39.7 (NEIS)
				h = 148 km

Day	Phase		h m s	Remarks
13.	eP	A	14 36 06.5	Southern Sumatra 2.39 S 100.14 E
				H = 14 23 04.7 h = 38 km MB = 5.1
				D = 90.90 Az = 320.5 (NEIS)
13.	LmH	C	20 36.5	LmH C 19s 0.3/um
	LmV	C	37.0	LmV C 19 0.3/um
14.	LmH	C	04 45.1	Mindanao 9.81 N 125.50 E
	LmV	C	50.0	H = 03 52 15.3 h = 44 km MB = 5.0 (ISC)
				D = 97.2
				LmH C 25s 0.9/um M = 5.2
				LmV C 22 0.3/um 4.7
14.	+ePKP	A	06 45 43	Fiji Region 17.7 S 175.9 E
				H = 06 26 02.6 h = 0 km
				D = 144.76 Az = 343 (ISC)
				PV A 1.5s 25.1nm
14.	eP	A	07 42 45	Molucca Passage 1.74 N 126.42 E
	e	A	42 53	H = 07 28 43.3 h = 46 km MB = 5.5 (ISC)
	e	A	43 08	D = 104.2
	ePP	A	46 57	LmH 24s 1.1/um M = 5.3
	e	A	47 09	LmV 16 0.5/um 5.2
	LmH	B	08 34.0	
	LmV	B	35.0	
14.	LmV	C	12 26.5	Taiwan Region 22.79 N 121.29 E
	LmH	C	26.8	H = 11 31 19.9 h = 34 km MB = 4.8
				D = 84.3
				LmH C 15s 0.6/um
				LmV C 16 0.45/um
14.	eP	A	21 03 50	Off East Coast of Kamchatka
				52.19 N 160.03 E
				H = 20 52 15.7 h = normal MB = 4.7 (NEIS)
				D = 74.11

Day	Phase		h m s	Remarks
15.	ePKP	A	02 34 54	Tonga Islands 17.49 S 173.33 W H = 02 15 14.2 h = normal MB = 4.8 (NEIS) D = 146.68 PKPV A 1.5s 20.1nm
15.	eP	A	09 53 06	Pakistan 29.84 N 69.35 E H = 09 44 32.7 h = 33 km MB = 4.8 (NEIS) D = 47.39 PV A 1.5s 17.6nm M = 4.9
15.	e	A	09 59 16	Near Coast of Venezuela 9.31 N 61.51 W H = 09 47 43.6 h = 47 km MB=5.4 MS=4.9 D = 72.16 Az = 39.8 (NEIS)
15.	ePKHKP	A	12 51 43	Fiji Islands Region 20.73 S 178.65 W H = 12 33 01.9 h = 615 km MB = 4.5 (NEIS) D = 149.07 PKHKPV A 1.2s 20.3nm
	ePKP2	A	51 49.5	
16.	+iP	AB	01 32 25.8	Jan Mayen Island Region 71.52 N 10.43 W H = 01 27 18.7 h = 13 km MB = 6.1 Ms = 6.5 (NEIS) D = 23.21 PV A 2.0s 5983.0nm M = 6.8 PV B 5 35.9/um 7.1 SH B 10 93.5/um 7.2 LmH B 14 151.0/um 6.7 LmV B 12 126.0/um 6.8
	eS	B	36 32	
	LmH	B	43.5	
	LmV	B	46.3	
16.	eP	A	03 03 06	Ethiopia 14.63 N 40.69 E H = 02 55 08.8 h = normal MB = 4.5 D = 42.93 Az = 333.0 (NEIS)
16.	eP	A	04 58 58.5	Costa Rica 10.46 N 85.81 W H = 04 46 21.4 h = 69 km MB = 5.4 D = 86.67 Az = 39.2 (NEIS) PV A 1.9s 37.9nm
	e	A	59 24	

Day	Phase		h m s	Remarks
16.	ePKP2	A	14 27 51	Tonga Islands Region 22.80 S 175.33 W H = 14 07 59.5 h = 38 km MB=5.3 MS=5.3 D = 151.68 Az = 350.7 (NEIS) PKP2V A 1.6s 38.5nm LmH B 19 0.4/um M = 5.2 LmV B 20 0.6/um 5.4
	ePP	A	31 37	
	LmH	B	15 43.0	
	LmV	B	43.0	
16.	ePKP2	A	15 59 32.5	Tonga Islands 20.90 S 173.96 W H = 15 39 43.3 h = normal MB = 4.9 D = 149.99 Az = 352.9 (NEIS) PKP2V A 1.6s 27.5nm
16.	+eP	AB	21 45 13	Kurile Islands 48.36 N 154.91 E H = 21 33 25.1 h = 32 km MB=5.8 MS=5.6 D = 76.46 Az = 337.0 (NEIS) PV B 5s 1.2/um M = 6.2 LmH B 15 4.3/um 5.9 LmV B 15.5 5.0/um 6.0
	ePP	C	48 04	
	ePPP	C	50 00	
	eS	C	54 52	
	ePS	C	55 46	
	eSS	C	22 00 00	
	LmH	B	24.7	
	LmV	B	24.7	
17.	ePKHKP	A	01 35 43	Tonga Islands Region 22.82 S 175.21 W H = 01 15 50.6 h = normal MB=5.0 MS=5.1 D = 151.72 Az = 350.8 (NEIS)
	ePKP2	A	35 54.5	
17.	eP	A	02 13 12	North Atlantic Ridge 45.54 N 27.98 W H = 02 07 34.4 h = normal MB=4.7 MS=4.6 D = 26.70 Az = 64.6 (NEIS) PV A 1.5s 17.6nm M = 4.5
17.	ePKP	A	04 25 32	Tonga Islands 15.00 S 173.60 W H = 04 05 59.4 h = normal MB = 4.9 D = 144.20 Az = 354.3 (NEIS)
17.	ePn	A	09 00 34	Czechoslovakia 50.76 N 14.42 E H = 09 00.0 Explosion yield 15.6 t (PRU) D = 1.78
	eSg	A	01 02	

Day	Phase		h m s	Remarks
17.	eP	A	18 53 23	Honshu, Japan 36.15 N 139.75 E
	ePP	A	56 32	H = 18 41 07.6 h = 65 km MB = 5.1
				D = 82.26 Az = 329.6 (NEIS)
				PV A 1.2s 18.3nm M = 4.9
17.	ePKIKP	A	22 12 48.5	Fiji Islands Region 17.43 S 177.12 W
	ePKHKP	A	12 49.5	H = 21 53 56.0 h = 420 km MB = 4.9
	ePKP2	A	12 51.5	D = 146.13 Az = 350.0 (NEIS)
	e	A	13 10.5	
18.	LmH	B	13 30.0	Near Coast of Peru 12.49 S 77.97 W
	LmV	B	30.3	H = 12 34 05 h = 2 km MB = 5.2 (ISC)
				D = 99.3
				LmH B 22s 0.6/um M = 5.1
				LmV B 16 0.6/um 5.2
18.	LmH	C	21 07.3	LmH C 14s 0.35/um
	LmV	C	09.9	LmV C 14 0.4/um
19.	eP	A	05 06 45	North Atlantic Ocean 59.15 N 31.19 W
	LmH	B	17.3	H = 05 01 19.1 h = normal MB=4.5 MS=3.9
	LmV	B	17.3	D = 25.63 Az = 90.4 (NEIS)
				PV A 1.8s 20.3nm M = 4.4
				LmH B 16.5 0.8/um 4.3
				LmV B 16 0.6/um 4.2
19.	ePKHKP	A	06 43 00	Easter Island Cordillera
				55.44 S 124.60 W
				H = 06 23 02.5 h = normal MB=5.0 MS=5.5
				D = 153.59 Az = 82.0 (NEIS)
19.	LmH	B	08 03.3	LmH B 19s 1.0/um
	LmV	B	03.7	LmV B 18 0.9/um
19.	eP	A	12 32 20	North Atlantic Ridge 16.46 N 46.63 W
				H = 12 22 32.6 h = normal MB=5.1 MS=4.3
				D = 57.41 Az = 40.0 (NEIS)
				PV A 2.0s 42.7nm M = 5.1

Day	Phase		h m s	Remarks
19.	eP	A	13 54 52	Arabian Sea 14.42 N 56.52 E
	ePP	A	56 54	H = 13 45 50.1 h = normal MB=5.3 MS=5.0
	eS	C	14 02 08	D = 51.12 Az = 324.7 (NEIS)
	eSS	C	06 00	PV A 2.2s 98.1nm M = 5.4
	LmH	B	20.0	LmH B 17.5 0.9/um 4.8
	LmV	B	20.0	LmV B 16 1.1/um 5.0
19.	e(P)	A	17 20 03	Arabian Sea 14.51 N 56.51 E
				H = 17 10 54.8 h = normal MB = 5.0
				D = 51.03 Az = 324.7 (NEIS)
19.	eP	A	17 30 35	Arabian Sea 14.57 N 56.26 E
	ePP	A	32 43	H = 17 21 35.2 h = normal MB = 5.2
				D = 50.85 Az = 324.8 (NEIS)
				PV A 2.4s 117.0nm M = 5.4
19.	eP	A	17 35 44	Arabian Sea 14.55 N 56.41 E
				H = 17 26 42.5 h = normal MB = 4.8
				D = 50.95 Az = 324.7 (NEIS)
19.	eP	A	17 47 38.5	Arabian Sea 14.46 N 56.20 E
				H = 17 38 38.6 h = normal MB = 5.1
				D = 50.90 Az = 324.8 (NEIS)
				PV A traces
19.	eP	A	17 59 54.5	Arabian Sea 14.55 N 56.45 E
				H = 17 50 52.7 h = normal MB = 5.0
				D = 50.97 Az = 324.7 (NEIS)
19.	eP	A	18 04 27	Arabian Sea 16 N 58 E
				H = 17 55 43 MB = 4.3 (NORSAR)
				D = 50.9
				PV A 1.0s 19.7nm M = 5.0
19.	eP	A	18 18 18.5	Arabian Sea 14.47 N 56.33 E
	ePP	A	20 30	H = 18 09 27.9 h = normal MB = 5.2
				D = 50.97 Az = 324.8 (NEIS)
				PV A 2.5s 108.0nm M = 5.4

Day	Phase		h m s	Remarks
19.	eP	A	18 25 11	Arabian Sea 14.51 N 56.35 E H = 18 16 11.7 h = normal MB = 5.1 D = 50.95 Az = 324.8 (NEIS) PV A 0.9s 13.6nm M = 4.9
19.	eP	A	18 53 00	Arabian Sea 14.46 N 56.38 E H = 18 43 59.1 h = normal MB = 5.1 D = 51.00 Az = 324.8 (NEIS)
19.	eP	A	19 18 40.5	Arabian Sea 14.51 N 56.22 E H = 19 09 27.5 h = normal MB = 5.1 D = 50.87 Az = 324.8 (NEIS)
19.	eP	A	19 29 33	Unimak Island Region 54.20 N 163.19 W H = 19 17 52.5 h = 49 km MB = 4.7 D = 75.44 Az = 3.4 (NEIS)
19.	eP	A	20 24 44	Arabian Sea 14.42 N 56.45 E
	ePP	A	26 45	H = 20 15 43.5 h = normal MB = 5.4
	LmH	B	50.0	D = 51.07 Az = 324.8 (NEIS)
	LmV	B	51.7	PV A 2.6s 156.0nm M = 5.5
19.	iPn	A	21 22 41.5	Austria 46.22 N 13.12 E
	eSn	A	23 33	H = 21 21 35.6 h = normal
	iSg	A	23 53	D = 4.54 Az = 347.8 (NEIS)
19.	eP	A	21 30 15	Arabian Sea 14.41 N 56.43 E H = 21 21 13.6 h = normal MB = 5.1 D = 51.08 Az = 324.8 (NEIS) PV A 2.6s 52.0nm M = 5.0
19.	eP	A	23 38 10.5	Arabian Sea 14.50 N 56.41 E H = 23 29 13.4 h = 68 km MB = 5.0 D = 50.99 Az = 324.7 (NEIS) PV A 2.2s 43.6nm M = 5.1

Day	Phase		h m s	Remarks
20.	e(P)	A	02 15 40	Arabian Sea 14.13 N 56.35 E H = 02 06 32.7 h = normal MB = 5.0 D = 51.26 Az = 324.9 (NEIS) PV A 2.3s 36.6nm M = 4.9
20.	ePn	A	03 37 54	Austria 46.26 N 13.14 E
	eSn	A	38 46	H = 03 36 48.8 h = normal
	eSg	A	39 06	D = 4.50 Az = 347.6 (NEIS)
20.	e(P)	A	03 50 14	Arabian Sea 14.19 N 56.51 E H = 03 41 06.5 h = normal MB = 5.0 D = 51.30 Az = 324.8 (NEIS)
20.	eP	A	05 18 45	Arabian Sea 14.36 N 56.59 E H = 05 09 42.4 h = normal MB = 4.8 D = 51.20 Az = 324.7 (NEIS)
20.	ePKHKP	A	08 54 16.5	Tonga 20.9 S 173.3 W H = 08 34 20.3 h = 0 km D = 150.08 Az = 354 (ISC) PKHKPV A 1.2s 12.2nm
20.	eP	A	09 05 51	Arabian Sea 14.45 N 56.49 E
	ePP	A	07 55	H = 08 56 49.8 h = normal MB = 5.1 D = 51.07 Az = 324.7 (NEIS) PV A 2.4s 55.2nm M = 5.1 PPV A 2.4 69.1nm 5.2
20.	eP	A	10 04 09	Arabian Sea 14.61 N 56.52 E H = 09 55 06.3 h = normal MB = 5.0 D = 50.97 Az = 324.6 (NEIS)
20.	ePKIKP	A	11 59 46	Southern Pacific Ocean
	ePP	B	12 01 52	36.40 S 98.79 W
	ePPP	B	04 40	H = 11 40 39.9 h = normal MB=6.0 MS=6.2
	eSPP	B	13 36	D = 129.40 Az = 50.6 (NEIS)
	eSS	B	19 35	PKIKPV A 1.8s 203.0nm
	eSSS	B	24 00	LmH B 20 6.6/um M = 6.3
	LmH	B	51.6	LmV B 17 6.3/um 6.4
	LmV	B	13 01.3	

Day	Phase		h m s	Remarks
20.	eP1	AB	17 48 07	Kyushu, Japan 33.19 N 131.30 E
	eP2	A	51 10	H = 17 35 50.4 h = 7 km MB=5.7 MS=6.1
	ePP	B	51 19	D = 81.04 Az = 325.9 (NEIS)
	eS	B	58 20	P2V A 2.5s 169.0nm M = 5.6
	eSS	B	18 03 36	SH B 13 2.4/um 6.1
	LmH	B	21.7	LmH B 16 25.2/um 6.7
	LmV	B	27.8	LmV B 15 22.2/um 6.7
20.	-eP	A	19 00 14	Off East Coast of Kamchatka
				51.83 N 159.91 E
				H = 18 48 37.9 h = normal MB = 5.0
				D = 74.42 Az = 339.7 (NEIS)
				PV A 1.3s 21.8nm M = 5.0
20.	eP	A	21 31 46.5	Arabian Sea 14.58 N 56.40 E
				H = 21 22 47.2 h = normal MB = 5.0
				D = 50.92 Az = 324.7 (NEIS)
20.	eSg	A	22 32 46.5	
20.	eP	A	22 51 43.5	Arabian Sea 14.59 N 56.15 E
				H = 22 42 44.0 h = normal MB = 4.8
				D = 50.78 Az = 324.8 (NEIS)
21.	eP	A	03 04 41.5	North of Ascension Island
				0.94 S 12.85 W
				H = 02 55 08.1 h = normal MB = 4.6
				D = 55.47 Az = 18.7 (NEIS)
21.	eP	A	03 57 31	Near East Coast of Honshu, Japan
				36.51 N 140.64 E
				H = 03 45 14.9 h = 58 km MB = 5.1
				D = 82.31 Az = 330.1 (NEIS)
				PV A 1.0s 15.7nm M = 4.9
21.	LmV	B	05 03.4	Bismarck Sea 3.21 S 147.05 E
	LmH	B	03.6	H = 03 49 17.4 h = 33 km MB = 5.1 (ISC)
				D = 119.8
				LmH B 18s 0.5/um M = 5.3
				LmV B 18 1.0/um 5.6

Day	Phase		h m s	Remarks
21.	e	A	06 18 11	North Atlantic Ridge 45.38 N 28.03 W
				H = 06 12 22.5 h = normal MB = 4.4
				D = 26.80 Az = 64.3 (NEIS)
21.	eP	A	06 20 10	North Atlantic Ridge 45.32 N 28.00 W
	LmH	B	30.4	H = 06 14 32.2 h = normal MB=5.0 MS=5.1
	LmV	B	30.6	D = 26.81 Az = 64.2 (NEIS)
				PV A 1.6s 35.7nm M = 5.1
				LmH B 18 1.5/um 4.8
				LmV B 17 2.1/um 4.9
21.	eP	A	12 01 15	Arabian Sea 14.56 N 56.14 E
				H = 11 52 15.9 h = normal MB = 4.7
				D = 50.78 Az = 324.8 (NEIS)
21.	eP	A	19 20 35	North Atlantic Ridge 45.28 N 27.95 W
	LmH	B	30.6	H = 19 14 56.3 h = normal MB = 4.8
	LmV	B	30.8	D = 26.80 Az = 64.1 (NEIS)
				PV A 2.0s 34.2nm M = 4.6
				LmH B 15 0.9/um 4.5
				LmV B 16 0.9/um 4.5
21.	eP	A	20 24 52.5	Southern Greece 37.09 N 23.50 E
				H = 20 21 10.6 h = 83 km MB = 4.2
				D = 16.01 Az = 331.6 (NEIS)
21.	ePKP	A	21 22 58.5	Tonga 16.24 S 173.8 W
				H = 21 03 22.4 h = 33 km MB = 4.9
				D = 145.40 Az = 354 (ISC)
				PV A 1.3s 21.8nm
21.	ePKP	A	22 29 07	Fiji Islands Region 19.8 S 178.1 W
				H = 22 09 29 h = 33 km
				D = 148.32 Az = 348 (ISC)
21.	eP	A	23 17 10	Mindanao, Philippine Islands
				6.16 N 126.77 E
				H = 23 03 30.3 h = 108 km MB = 5.0
				D = 100.77 Az = 324.1 (NEIS)

Day	Phase		h m s	Remarks
21.	ePKP2	A	23 54 47	Kermadec Islands Region 30.26 S 177.93 W
	LmH	C	24 01.0	H = 23 34 19.8 h = 44 km MB = 5.0 (NEIS)
				D = 158.42
				PKP2V A 1.2s 12.2nm
22.	eP	A	00 23 52	Near North Coast of Colombia
				10.23 N 75.66 W
				H = 00 11 41.9 h = 34 km MB=5.1 MS=4.0
				D = 80.45 Az = 40.2 (NEIS)
22.	eP	A	00 43 51	Arabian Sea 14.64 N 56.38 E
				H = 00 34 49.6 h = normal MB = 5.0
				D = 50.86 Az = 324.7 (NEIS)
				PV A traces
22.	eP	A	03 47 49	Arabian Sea 14.72 N 54.88 E
				H = 03 38 56.7 h = normal MB = 5.0
				D = 49.96 Az = 325.3 (NEIS)
22.	eP	A	06 44 30	Arabian Sea 14.73 N 54.86 E
	LmH	C	07 10.0	H = 06 35 36.8 h = normal MB = 5.0
	LmV	C	10.0	D = 49.94 Az = 325.3 (NEIS)
				PV A 2.0s 34.2nm M = 5.0
				LmH C 17 0.25/um 4.3
				LmV C 17 0.3/um 4.4
22.	eP	A	11 19 50.5	Azores Islands Region 42.12 N 29.25 W
				H = 11 13 50.9 h = normal MB = 4.6
				D = 29.13 Az = 58.8 (NEIS)
				PV A traces
22.	e	A	12 10 02	
22.	eP	A	18 34 38	Arabian Sea 14.50 N 56.51 E
				H = 18 25 37.8 h = normal MB = 5.2
				D = 51.05 Az = 324.7 (NEIS)

Day	Phase		h m s	Remarks
22.	+eP	A	20 16 55	Kurile Islands 44.71 N 148.82 E
				H = 20 05 03.7 h = 77 km MB = 4.9
				D = 78.02 Az = 333.8 (NEIS)
				PV A 1.2s 12.2nm M = 4.7
22.	eP	A	20 29 32	Greenland Sea 74.91 N 9.88 E
	e	A	29 39	H = 20 24 16.1 h = normal MB = 4.5
				D = 24.37 Az = 177.3 (NEIS)
				PV A 1.6s 33.0nm M = 4.6
22.	e(P)	A	21 02 56	Svalbard Region 75.0 N 10.2 E
				H = 20 57 29 h = 0 km MB = 4.4
				D = 24.47 Az = 178 (ISC)
				PV A 1.4s 25.6nm
22.	eP	A	21 35 30	Nicobar Islands Region 6.30 N 95.24 E
				H = 21 23 22.9 h = 86 km MB = 5.1
				D = 81.12 Az = 320.2 (NEIS)
22.	eP	A	21 44 27	Arabian Sea 14.54 N 56.59 E
	ePP	A	46 30	H = 21 35 26.0 h = normal MB=5.2 MS=4.7
	LmH	C	22 03.0	D = 51.06 Az = 324.7 (NEIS)
	LmV	C	03.0	PV A 2.0s 42.5nm M = 5.1
				LmV C 33 0.3/um 4.2
22.	eP	A	22 26 51	Arabian Sea 14.40 N 56.47 E
	ePP	A	28 50	H = 22 17 49.5 h = normal MB = 5.0
				D = 51.11 Az = 324.8 (NEIS)
				PV A 2.0s 25.6nm M = 4.9
22.	eP	A	22 53 21	Norwegian Sea 72.93 N 4.91 E
				H = 22 48 23.8 h = normal MB = 4.6
				D = 22.56 Az = 168.8 (NEIS)
22.	eP	A	23 36 14.5	Arabian Sea 14.38 N 56.54 E
				H = 23 27 13.2 h = 33 km MB = 4.8 (NEIS)
				D = 51.17
				PV A traces

Day	Phase		h m s	Remarks
23.	eP	A	00 31 40	Off East Coast of Kamchatka
				53.26 N 161.07 E
				H = 00 20 09.8 h = normal MB = 4.7
				D = 73.32 Az = 340.3 (NEIS)
23.	eP	A	01 11 42	Turkey 40.45 N 26.08 E
	LmH	B	16.4	H = 01 08 08.5 h = 20 km MB = 4.3
	LmV	B	17.7	D = 14.35 Az = 320.1 (NEIS)
				LmH B 13s 0.3/um M = 3.6
				LmV B 10 0.5/um
23.	eP	A	05 20 35	Kazhik-Sinkiang Border Region
	LmH	C	37.0	45.89 N 82.31 E
	LmV	C	40.4	H = 05 12 16.0 h = normal MB = 4.9
				D = 45.66 Az = 302.9 (NEIS)
				PV A 1.0s 15.8nm M = 4.9
				LmH C 17.5 0.7/um 4.7
				LmV C 12 0.5/um 4.8
23.	e(P)	A	08 25 37.5	Arabian Sea 14.57 N 56.46 E
				H = 08 16 32.1 h = normal MB = 5.0
				D = 50.96 Az = 324.7 (NEIS)
				traces
23.	eP	A	08 26 38	Arabian Sea 14.29 N 56.53 E
				H = 08 17 36.2 h = 33 km MB = 5.2 (NEIS)
				D = 51.23
				PV A 1.8s 27.0nm M = 4.9
23.	eP	A	10 17 03	Arabian Sea 14.47 N 56.66 E
				H = 10 08 01.7 h = normal MB = 5.2
				D = 51.15 Az = 324.7 (NEIS)
23.	eP	AB	11 27 48	Near Coast of Guerrero, Mexico
	ePP	B	31 20	16.45 N 98.91 W
	eSKS	B	38 22	H = 11 14 48.0 h = 11 km MB=6.0 MS=6.2
	eSS	B	44 40	D = 89.84 Az = 36.6 (NEIS)
	LmH	B	12 06.7	PV A 2.0s 59.8nm M = 5.5

Day	Phase		h m s	Remarks
cont. 23.	LmV	B	12 12.1	PV B 12s 2.2/um M = 6.3
				PPV B 12 3.4/um 6.7
				PPH B 12 1.9/um 6.7
				LmH B 19 5.5/um 6.0
				LmV B 17 6.4/um 6.2
23.	e(P)	A	12 14 48.5	Arabian Sea 14.7 N 57.1 E
				H = 12 05 40 h = 54 km MB = 4.6
				D = 51.26 Az = 324 (ISC)
23.	ePKHKP	A	15 00 56.5	Tonga Islands 20.81 S 173.89 W
				H = 14 41 08.5 h = 40 km MB = 5.1
				D = 149.91 Az = 353.0 (NEIS)
				PKHKPV A 1.3s 26.2nm
23.	+eP	AB	15 11 19	Arabian Sea 14.59 N 56.31 E
	ePP	AB	13 23	H = 15 02 10.5 h = normal MB = 5.2
	LmH	B	38.3	D = 50.86 Az = 324.7 (NEIS)
	LmV	B	38.3	PV A 2.0s 59.8nm M = 5.2
23.	eP	A	15 21 09	Arabian Sea 14.48 N 56.67 E
	ePP	A	23 13	H = 15 12 04.1 h = normal MB = 5.0
				D = 51.15 Az = 324.6 (NEIS)
				PV A 2.5s 53.8nm M = 5.1
				PPV A 2.5 38.4nm 4.9
23.	ePn	A	16 20 27	Austria 46.32 N 13.14 E
	ePg	A	20 46	H = 16 19 21.3 h = normal
	eSn	A	21 17	D = 4.44 Az = 347.4 (NEIS)
	eSg	AB	21 38	
24.	eP	A	00 14 44	Arabian Sea 14.39 N 56.44 E
				H = 00 05 41.9 h = normal MB = 5.0
				D = 51.10 Az = 324.8 (NEIS)
24.	eP	A	01 45 59.5	Nepal 27.24 N 86.90 E
				H = 01 35 51.4 h = normal MB = 5.1
				D = 60.33 Az = 314.9 (NEIS)

Day	Phase		h m s	Remarks
24.	eP	A	02 02 10	Pakistan 30.07 N 67.90 E
				H = 01 53 45 h = 26 km MB = 4.4
				D = 46.31 Az = 313 (ISC)
24.	eP	A	23 01 54	Southern Greece 37.57 N 22.70 E
	LmH	B	08.4	H = 22 58 18.0 h = 78 km MB = 4.9
	LmV	B	09.1	D = 15.28 Az = 332.3 (NEIS)
				PV A 1.0s 86.6nm M = 4.9
24.	e	A	23 25 35	Off East Coast of Honshu, Japan
	LmH	B	24 05.7	35.86 N 142.36 E
	LmV	B	08.3	H = 23 13 00.7 h = 40 km MB = 4.8
				D = 83.56 Az = 331.0 (NEIS)
				LmH B 14s 0.6/um M = 5.1
				LmV B 14 0.6/um 5.1
25.	ePKIKP	A	01 03 29	South Shetland Islands 61.99 S 56.31 W
				H = 00 44 31.4 h = normal MB = 5.4
				D = 124.53 Az = 45.7 (NEIS)
25.	ePKP2	A	05 00 48	Kermadec Islands Region 31.65 S 179.50 E
				H = 04 41 01.6 h = 416 km MB = 4.6 (NEIS)
				D = 158.99
25.	LmH	B	10 48.0	Near Coast of Northern Peru
	LmV	B	49.1	5.85 S 81.15 W
				H = 09 36 07 h = 33 km MB = 5.0 (ISC)
				D = 96.3
				LmH B 16s 0.3/um M = 4.9
				LmV B 18 0.55/um 5.1
25.	ePKIKP	A	14 07 12	Near Coast of Southern Chile
				47.66 S 75.30 W
				H = 13 48 18.8 h = normal MB = 5.0
				D = 123.03 Az = 49.3 (NEIS)
25.	eP	A	14 34 57	Off East Coast of Kamchatka
	e	A	35 10	51.83 N 159.97 E

Day	Phase		h m s	Remarks
cont. 25.	LmH	B	15 09.8	H = 14 23 19.9 h = normal MB=5.0 MS=5.3
	LmV	B	13.6	D = 74.44 Az = 339.7 (NEIS)
				PV A 1.2s 20.3nm M = 5.0
				LmH B 17 0.6/um 5.0
				LmV B 15 0.6/um 5.0
25.	ePKP	A	15 46 10	Tonga Islands 16.53 S 174.25 W
				H = 15 26 33.9 h = 29 km MB = 5.2
				D = 145.64 Az = 353.4 (NEIS)
25.	eP	A	17 49 40.5	Near East Coast of Honshu, Japan
				37.93 N 141.19 E
				H = 17 37 33.0 h = 94 km MB = 5.1
				D = 81.30 Az = 330.2 (NEIS)
25.	ePKIKP	A	21 30 50	Fiji Islands Region 20.76 S 178.82 W
	ePKHKP	A	30 54.5	H = 21 12 13.3 h = 605 km MB = 5.0
	ePKP2	A	31 01.5	D = 149.06 Az = 347.0 (NEIS)
				PKHKPV A 1.6s 65.9nm
				PKP2V A 1.0 23.6nm
25.	ePKHKP	A	23 25 40	Fiji Region 21.5 S 176.2 W
				H = 23 06 10
				D = 150.24 Az = 350
				PKHKPV A 1.3s 13.1nm
26.	eP	A	03 26 36	Honshu, Japan 39.59 N 141.08 E
	epP	A	27 01.5	H = 03 14 37.8 h = 100 km MB = 5.3
				D = 79.82 Az = 330.0 (NEIS)
				h = 98 km
				PV A 1.1s 24.2nm M = 4.9
27.	+iP	A	05 44 48.7	EasternKazakh SSR 49.99 N 78.98 E
	ePn	A	46 27	H = 05 36 57.3 h = 0 km MB = 5.6
				D = 41.66 Az = 297.9 (NEIS)
				Underground explosion MB = 6.7 (UPP)
				PV A 1.1s 121.0nm M = 5.5

Day	Phase		h m s	Remarks
27.	eP	A	07 19 43.5	South of Honshu, Japan 33.42 N 140.83 E
	ePP	A	22 59.5	H = 07 07 13.8 h = 61 km MB = 5.3
				D = 85.06 Az = 330.3 (NEIS)
				PV A 1.5s 40.2nm M = 5.3
27.	ePKP	A	08 05 48	Tonga Islands Region 17.31 S 172.73 W
	eX	A	05 58	H = 07 46 09.3 h = normal MB = 4.9
				D = 146.56 Az = 355.0 (NEIS)
				XV A 1.8s 60.8nm
27.	e	A	11 38.49	Mid-Indian Rise 14.2 S 66.0 E
				H = 11 26 32 h = 33 km MB = 4.8
				D = 80.06 Az = 328 (ISC)
28.	LmH	C	01 05.6	Western Arizona-Mexico Border Region
	LmV	C	05.6	32.03 N 114.85 W
				H = 00 17 49 h = 19 km MB = 4.6 (ISC)
				D = 85.1
				LmH C 20.5s 0.7/um M = 5.0
				LmV C 20 0.5/um 4.9
28.	eP	A	02 08 14.5	Iran 33.31 N 54.83 E
				H = 02 01 17.0 h = 42 km MB = 5.3
				D = 35.90 Az = 312.0 (NEIS)
				PV A 1.5s 25.1nm M = 4.9
28.	eP	A	02 33 43	Eastern Mediterranean Sea
				34.70 N 28.75 E
				H = 02 29 07.5 h = normal MB = 4.7
				D = 20.24 Az = 327.2 (NEIS)
				PV A 1.1s 32.3nm M = 4.6
28.	eP	A	09 27 58	Kashmir-Tibet Border Region
				35.67 N 79.94 E
				H = 09 19 01.5 h = normal MB = 4.8
				D = 50.27 Az = 309.7 (NEIS)

Day	Phase		h m s	Remarks
28.	eP	A	10 51 56	Taiwan Region 24.02 N 122.40 E
				H = 10 39 28.9 h = 41 km MB = 5.0
				D = 83.94 Az = 323.2 (NEIS)
				PV A 1.2s 14.2nm M = 4.9
28.	iPg	A	10 52 39.5	Explosion, German Democratic Republic
	iSg	A	52 55	51.37 N 12.89 E
				H = 10 52.3 yield 3.75 t (CLL)
				D = 1.08 Az = 228 (ISC)
28.	eP	AB	11 15 38	Kashmir-Tibet Border Region
	+iPP	B	17 38	35.82 N 79.92 E
	eS	B	22 44	H = 11 06 43.5 h = normal MB = 5.8 MS=6.3
	eSS	B	26 14	D = 50.16 Az = 309.6 (NEIS)
	LmH	B	35.6	PV A 1.4s 195.0nm M = 5.9
	LmV	B	38.4	PV B 5.5 2.1/um 6.3
				PPV B 6.5 3.3/um 6.4
				LmH B 19.5 42.4/um 6.5
				LmV B 16 17.0/um 6.2
28.	eP	A	12 07 30	Kashmir-Tibet Border Region
	ePP	A	09 30	35.88 N 80.02 E
				H = 11 58 34.2 h = 31 km MB=5.2 MS=5.9
				D = 50.19 Az = 309.6 (NEIS)
				PV A 1.2s 20.3nm M = 5.0
28.	LmH	C	18 47.0	Mindanao 9.50 N 126.62 E
	LmV	C	48.6	H = 17 44 34.2 h = 61 km MB = 5.1 (ISC)
				D = 98
				LmH C 18s 0.4/um
				LmV C 16 0.5/um
29.	eP	A	03 16 55.5	Kashmir-Tibet Border Region
	ePP	A	18 52	35.83 N 80.04 E
	LmH	B	36.9	H = 03 07 59.6 h = normal MB = 5.0
	LmV	B	40.4	D = 50.23 Az = 309.6 (NEIS)
				PV A 1.1s 20.2nm M = 5.0
				LmH B 20 1.7/um 5.0
				LmV B 14 0.9/um 5.0

Day	Phase		h m s	Remarks
29.	e(P)	A	05 18 30	Kashmir-Tibet Border Region
				35.89 N 79.70 E
				H = 05 09 29.9 h = normal MB = 4.8
				D = 49.98 Az = 309.5 (NEIS)
29.	eP	A	08 54 55	Mindoro, Philippine Islands
	ePP	A	58 32.5	13.65 N 120.80 E
	LmH	B	09 35.6	H = 08 41 53.7 h = 53 km MB = 5.2
	LmV	B	38.3	D = 91.30 Az = 323.0 (NEIS)
				PV A 1.3s 13.1nm M = 5.2
				PPV A 1.2 12.2nm 5.2
				LmH B 16 1.6/um 5.6
				LmV B 18 1.4/um 5.5
29.	e	A	09 02 35	Mindoro, Philippine Islands
				13.75 N 120.89 E
				H = 08 49 25.8 h = 50 km MB = 5.0
				D = 91.26 Az = 323.0 (NEIS)
				PV A 1.6s 22.0nm M = 5.3
29.	e(P)	A	12 12 15	Arabian Sea 14.58 N 56.47 E
				H = 12 03 10.2 h = normal MB = 5.1
				D = 50.96 Az = 324.7 (NEIS)
29.	eP	A	17 28 02	Southern Honshu, Japan
				34.35 N 136.45 E
				H = 17 16 19.0 h = 369 km MB = 4.7
				D = 82.40 Az = 328.2 (NEIS)
30.	eP	A	03 15 21	Southern Sinkiang Prov., China
				35.96 N 80.15 E
				H = 03 06 27.0 h = 29 km MB = 5.1
				D = 50.22 Az = 309.6 (NEIS)
30.	+iP	AB	04 33 27.5	Turkey 36.18 N 30.77 E
	e	B	35 24	H = 04 28 57.0 h = 56 km MB = 5.6
	eS	B	37 16	D = 19.98 Az = 322.3 (NEIS)
	e	B	37 28	PV A 1.1s 464.0nm M = 5.7
	LmH	B	42.4	LmH B 11.5 4.9/um 5.1

Day	Phase		h m s	Remarks
cont. 30.	LmV	B	04 42.4	LmV B 12s 5.5/um M = 5.3
30.	eP	A	04 52 58.5	Mongolia 43.88 N 102.65 E
				H = 04 43 04.1 h = normal MB = 4.8
				D = 58.38 Az = 311.6 (NEIS)
30.	+eP	A	07 19 53.5	Rat Islands, Aleutian Is.
	LmH	B	56.7	51.40 N 179.70 E
	LmV	B	08 03.4	H = 07 08 00.1 h = 48 km MB=5.2 MS=4.9
				D = 77.83 Az = 352.3 (NEIS)
				PV A 1.0s 19.7nm M = 5.1
				LmH B 18 0.7/um 5.0
				LmV B 16 0.6/um 5.0
30.	ePKP2	A	11 19 34	South of Fiji Islands 25.76 S 176.72 W
				H = 10 59 25.3 h = 74 km MB = 5.0
				D = 154.34 Az = 347.7 (NEIS)
30.	eP	A	15 12 18.5	Southern Nevada 37.11 N 116.03 W
				H = 15 00 00.0 h = 0 km MB = 5.2
				D = 81.23 Az = 30.7 (NEIS)
				PV A 1.5s 22.6nm M = 5.0
30.	LmH	C	15 47.2	Taiwan 23.91 N 121.63 E
	LmV	C	48.0	H = 14 53 39.4 h = 67 km MB = 4.6
				D = 83.60 Az = 323 (ISC)
				LmH C 15s 0.4/um
				LmV C 14 0.4/um
30.	eP	A	22 17 46	Arabian Sea 14.68 N 56.13 E
				H = 22 08 47.8 h = normal MB = 5.1
				D = 50.68 Az = 324.8 (NEIS)
30.	+eP	A	23 49 31	Arabian Sea 14.60 N 56.56 E
	ePP	A	51 33	H = 23 40 30.7 h = normal MB=5.3 MS=5.0
	eS	C	56 50	D = 50.99 Az = 324.6 (NEIS)

Day	Phase		h m s	Remarks
cont. 30.	LmH	C	24 10.8	PV A 2.5s 138.5nm M = 5.5
	LmV	C	14.4	PPV A 2.6 107.0nm 5.3
				LmH C 23 0.35/um 4.3
				LmV C 20 0.45/um 4.6

Day	Phase		h m s	Remarks
1.	eP	A	02 46 43	Arabian Sea 14.57 N 56.44 E
	eX	A	46 57	H = 02 37 42.9 h = 33 km MB = 5.1
				D = 50.95 Az = 325 (NEIS)
				XV A 2.0s 51.3nm
1.	ePKHKP	A	03 40 15	West of Macquarie Islands
	eX	A	40 32	52.76 S 140.40 E
	LmH	B	04 51.0	H = 03 20 31.6 h = 33 km MB=5.5 MS=5.5
	LmV	B	52.0	D = 148.73 Az = 287 (NEIS)
				PKHKPV A 2.0s 34.2nm
				XV A 2.0 68.4nm
				LmH B 20 1.0/um M = 5.5
				LmV B 20 0.8/um 5.5
1.	eP	A	08 25 40.5	Off East Coast of Honshu, Japan
				34.06 N 141.68 E
				H = 08 13 08.8 h = 48.6 km MB=4.8 (NEIS)
				D = 84.9
				PV A 0.8s 15.4nm M = 5.2
1.	ePKP	A	10 48 44	Tonga Islands Region 17.40 S 172.88 W
	eX	A	48 53.5	H = 10 29 06.5 h = 61.7 km MB = 4.4
				D = 146.63 Az = 355 (NEIS)
				PKPV A 1.9s 30.3nm
				XV A 2.0 47.0nm
1.	LmH	C	13 30.6	Mindoro 13.66 N 120.88 E
	LmV	C	39.2	H = 12 37 01.6 h = 54 km MB = 5.0 (ISC)
				D = 91.3
				LmH C 15.5s 0.6/um
				LmV C 14 0.55/um
1.	ePKIKP	A	15 16 15.5	South Shetland Islands 62.23 S 56.16 W
				H = 14 57 20.7 h = 33 km MB = 5.3
				D = 124.65 Az = 46 (NEIS)
				PKIKPV A 1.3s 8.7nm

Day	Phase		h m s	Remarks
1.	eP	A	17 02 55	Ryukyu Islands 26.02 N 128.49 E
	e	A	03 05	H = 16 50 17.5 h = 28 km MB = 5.3
	eS	C	13 28	D = 85.55 Az = 325 (NEIS)
	eSSS	C	23.5	PV A 2.2s 130.5nm M = 5.8
	LmH	B	39.0	LmH B 19 2.9/um 5.7
	LmV	B	46.4	LmV B 15 2.7/um 5.8
1.	eP	A	18 59 49.5	Fox Islands, Aleutian Is.
	LmH	C	19 35.0	52.71 N 167.03 W
	LmV	C	44.7	H = 18 47 56.0 h = 17.5 km MB = 5.1
				D = 77.02 Az = 1 (NEIS)
				PV A 1.2s 32.5nm M = 5.3
				LmH C 20 0.3/um 4.5
				LmV C 16 0.3/um 4.7
1.	eP	A	19 13 28	Fox Islands, Aleutian Is.
				53.29 N 167.42 W
				H = 19 01 40.7 h = 33.0 km MB = 4.8
				D = 76.44 Az = 1 (NEIS)
1.	eP	A	19 32 57	Fox Islands, Aleutian Is.
				52.88 N 167.01 W
				H = 76.85 Az = 1 (NEIS)
1.	LmH	B	22 01.4	Mindoro 13.60 N 120.72 E
	LmV	B	06.5	H = 21 09 40.1 h = 33 km MB = 5.0 (ISC)
				D = 91.3
				LmH B 16s 0.8/um M = 5.2
				LmV B 18 0.6/um 5.1
2.	ePP	A	05 08 02	Turkey 36.22 N 30.61 E
				H = 05 03 19.3 h = 42.9 km MB = 3.9
				D = 19.87 Az = 322 (NEIS)
2.	ePn	A	15 38 48	
	eSg	A	39 10	
	ei	A	39 12.5	

Day	Phase		h m s	Remarks
3.	ePKHKP	A	01 37 09	Fiji Region 17.82 S 178.43 W
				H = 01 18 34.8 h = 609 km
				D = 146.28 Az = 348 (ISC)
				PKHKPV A 1.0s 9.8nm
3.	eP	A	03 19 32.5	Southern Greece 37.7 N 21.3 E
	e	A	19 37.5	H = 03 16 05 (BCIS)
				D = 14.7
3.	eP	A	05 27 14	Sea of Okhotsk 46.91 N 145.15 E
				H = 05 16 11.5 h = 367.0 km MB = 4.6
				D = 74.89 Az = 331 (NEIS)
				PV A 1.2s 12.2nm M = 4.5
3.	eP	A	06 58 20	Mariana Islands 18.66 N 146.38 E
	ePP	A	07 02 26	H = 06 44 39.1 h = 64.9 km MB = 5.3
	epPP	A	02 45	D = 100.36 Az = 333 (NEIS)
				PV A 1.2s 12.2nm M = 5.4
				PPV A 1.5 22.6nm 5.5
3.	LmH	B	17 34.9	Ryukyu Islands 26.04 N 128.32 E
	LmV	B	42.7	H = 16 46 39 h = 50 km MB = 4.7 (ISC)
				D = 85.5
				LmH B 20s 0.7/um M = 5.0
				LmV B 14 0.5/um 5.1
3.	LmH	B	17 53.3	Ryukyu Islands 26.02 N 128.38 E
	LmV	B	18 01.2	H = 17 05 11 h = 52 km MB = 5.0 (ISC)
				D = 85.5
				LmH B 20s 1.0/um
				LmV B 15 1.0/um
3.	e	A	18 41 54	Ryukyu Islands 26.06 N 128.64 E
	LmH	B	19 17.5	H = 18 29 01.5 h = 23.3 km MB = 5.2
	LmV	B	25.0	D = 85.6 Az = 325 (NEIS)
				LmH B 20s 1.2/um M = 5.3
				LmV B 16 0.6/um 5.1

Day	Phase		h m s	Remarks
3.	ePn	A	23 46 34	Austria 48.5 N 13.7 E
	ePg	A	46 39	H = 23 45 51 h = 0 km
	eSg	A	47 10	D = 2.52 Az = 329 (ISC)
4.	eP	A	02 30 42	Ryukyu Islands 25.99 N 128.50 E
	LmH	B	03 06.5	H = 02 18 01.9 h = 36.6 km MB = 4.7
	LmV	B	14.0	D = 85.59 Az = 325 (NEIS)
				PV A traces
				LmH B 20s 0.5/um M = 4.9
				LmV B 16 0.3/um 4.8
4.	LmH	C	04 31.0	Near Coast of Guerrero, Mexico
	LmV	C	36.7	16.6 N 98.8 W
				H = 03 14 53 h = 89 km MB = 4.5 (ISC)
				D = 89.7
				LmV C 14s 0.3/um
4.	+eP1	AB	09 44 20	Off East Coast of Honshu, Japan
	eiP2	A	44 25.5	37.14 N 142.07 E
	ePP	A	47 21	H = 09 31 59.2 h = 23.0 km MB=5.8 MS=5.7
	eS	B	54 30	D = 82.34 Az = 331 (NEIS)
	eSS	C	10 03.3	P1V A 1.8s 138.8nm M = 5.7
	LmH	B	20.8	P1V B 5 0.7/um 5.9
	LmV	B	24.0	P2V A 1.5 216.0nm 5.9
				PPV A 1.4 34.9nm 5.5
				LmH B 15.5 6.5/um 6.1
				LmV B 15 6.0/um 6.0
4.	eP	A	09 52 26	Off East Coast of Honshu, Japan
				37.25 N 141.98 E
				H = 09 40 07.7 h = 40.4 km MB = 4.8
				D = 82.20 Az = 331 (NEIS)
4.	eP	A	21 30 28	Tyrrhenian Sea 39.47 N 13.37 E
				H = 21 27 55.1 h = 438 km
				D = 11.25 Az = 354 (ISC)

Day	Phase		h m s	Remarks
4.	ePKHKP	A	21 38 16.5	Fiji Islands Region 20.69 S 178.29 W
	ePKP2	A	38 23	H = 21 19 30.1 h = 560.4 km MB = 4.8
				D = 149.10 Az = 348 (NEIS)
				PKHKPV A 1.5s 25.1nm
5.	ePKP	A	02 36 21	Tonga Islands 17.14 S 173.85 W
				H = 02 16 40.8 h = 27.4 km MB=4.9 MS=4.1
				D = 146.29 Az = 354 (NEIS)
				PKPV A 1.6s 13.7nm
5.	eP	A	04 29 06.5	Zaire Republic 10.48 S 27.55 E
				H = 04 18 43.5 h = 33.0 km MB = 4.7
				D = 62.44 Az = 349 (NEIS)
5.	eP	AB	05 28 55	Tsinghai Province, China 33.09 N 92.92 E
	ePa	B	32 24	H = 05 18 49.3 h = 33.0 km MB=5.8 MS=6.1
	eS	B	37 10	D = 60.01 Az = 313 (NEIS)
	LmH	B	52.2	PV B 4.0s 0.9/um M = 6.2
	LmV	B	59.4	LmH B 19 20.8/um 6.3
				LmV B 15 19.0/um 6.4
5.	eP	A	15 50 35	Norwegian Sea 72.9 N 3.8 E
				H = 15 45 36 h = 33 km ME = 4.1
				D = 22.59 Az = 167 (ISC)
				PV A 1.5s 15.1nm
5.	eP	A	19 36 40	Kashmir-Tibet Border Region
	LmH	B	56.5	35.94 N 79.93 E
	LmV	B	20 00.0	H = 19 27 44.5 h = 21.5 km MB = 5.0
				D = 50.10 Az = 310 (NEIS)
5.	ePKIKP	AB	20 47 47	South of Fiji Islands 23.01 S 176.24 W
	ePKHKP	AB	47 54	H = 20 28 08.3 h = 90.0 km MB = 5.6
	ePKP2	A	48 03.5	D = 151.74 Az = 349 (NEIS)
	eSKP	B	51 10	PKHKPV A 1.4s 120.9 nm
	ePPP	B	55 18	PKHKPV B 7.0 0.8/um
	eSS	B	21 10 55	LmH B 20 0.6/um
	ePSPS	B	12 32	LmV B 22 0.8/um

Day	Phase		h m s	Remarks
cont.				
5.	LmH	B	21 53.0	
	LmV	B	53.0	
5.	e(Sg)	A	23 25 00	
6.	eP	AB	10 31 07	South of Honshu, Japan 31.02 N 141.76 E
	ePP	A	34 32.5	H = 10 18 20.6 h = 33.0 km MB=5.7 MS=5.9
	iS	B	41 44	D = 87.53 Az = 331 (NEIS)
	eSS	B	47 30	PV A 1.6s 55.0nm M = 5.6
	LmH	B	11 11.9	PV B 5 1.0/um 6.4
	LmV	B	20.4	PPV A 1.6 65.9nm 5.8
				SH B 9 3.8/um 6.5
				LmH B 15 8.3/um 6.3
				LmV B 14 5.5/um 6.1
6.	LmH	C	21 53.0	New Ireland Region 3.84 S 151.50 E
	LmV	C	57.0	H = 20 49 46.4 h = 20 km MB = 5.2 (ISC)
				D = 122.5
				or
				Near Coast of Guerrero, Mexico
				16.4 N 98.71 W
				H = 21 04 08 h = 36 km MB = 4.4 (ISC)
				D = 88.7
				LmH C 23s 0.55/um
				LmV C 29 0.5/um
6.	eP	A	23 38 08	Eastern Gulf of Aden 13.30 N 50.79 E
				H = 23 29 22.5 h = 33 km MB = 4.7
				D = 48.95 Az = 328 (NEIS)
7.	ePKHKP	A	07 51 27	Fiji Region 19.9 S 178.2 W
				H = 07 32 42.8 h = 572 km MB = 4.4
				D = 148.40 Az = 348 (ISC)
8.	eP	A	01 11 22	Kodiak Islands Region 56.51 N 152.87 W
				H = 00 59 56.0 h = 33 km MB = 4.7
				D = 72.44 Az = 10 (NEIS)

Day	Phase		h m s	Remarks
8.	eP	A	10 38 57	Andreanof Islands, Aleutian Is.
				50.30 N 179.81 W
				H = 10 26 55.0 h = 33.0 km MB = 4.8
				D = 78.96 Az = 353 (NEIS)
8.	eP	A	12 05 12	Kashmir-Tibet Border Region
				32.38 N 78.51 E
				H = 11 56 07.0 h = 33.0 km MB = 4.8
				D = 50.57 Az = 312 (NEIS)
8.	ePKP	A	20 54 12	Loyalty Islands Region 21.88 S 170.51 E
				H = 20 34 37.9 h = 82.6 km MB = 5.3
				D = 146.86 Az = 335 (NEIS)
				PKPV A 1.3s 30.6nm
9.	eP	A	04 24 46.5	Southern Sumatra 4.64 S 102.08 E
	ePP	A	28 33	H = 04 11 31.0 h = 34.2 km MB = 5.5
				D = 93.85 Az = 320 (NEIS)
				PV A 1.4s 20.9nm M = 5.4
9.	eP	A	18 08 48	Iran 30.20 N 52.00 E
	LmH	B	26.9	H = 18 01 45.6 h = 56.9 km MB = 4.9
	LmV	B	26.9	D = 36.31 Az = 316 (NEIS)
				LmH B 14.5s 0.7/um
				LmV B 16 0.6/um
9.	+ePKIKP	AB	18 54 58	South of Kermadec Islands 32.66 S 179.32 W
	ePKHKP	A	55 12.5	H = 18 35 05.1 h = 47.0 km MB=5.5 MS=5.8
	ePKP2	A	55 41	D = 160.29 Az = 339 (NEIS)
	eX	A	55 54.5	PKIKPV A 1.6s 49.5nm
	ePP	B	59 20	XV A 1.7 121.2nm
	LmH	B	20 04.0	LmH B 21.5 2.3/um M = 5.9
	LmV	B	11.8	LmV B 21 1.5/um 5.7
10.	eP diff	AC	14 42 36	Near Coast of Central Chile
	ePKIKP	A	46 13.5	38.18 S 73.23 W
	ePP	C	47 16	H = 14 27 38.7 h = 5.9 km MB=6.5 MS=7.7
	eS diff	B	55 32	(NEIS)

Day	Phase		h m s	Remarks
cont. 10.	ePS	B	14 57 18	D = 115.4
	eSS	B	15 03 14	PdiffV C 29s 11.5/um
	LmH	B	35.6	LmH B 18.5 178.2/um M = 7.7
	LmV	B	35.8	LmV B 19 214.0/um
11.	LmH	B	03 14.0	Ryukyu Islands 27.76 N 130.80 E
	LmV	B	20.0	H = 02 24 05.7 h = 33 km MB = 4.7 (ISC)
				D = 85.3
				LmH B 15s 0.3/um M = 4.8
				LmV B 15 0.25/um 4.7
11.	eP	AB	07 08 27.5	Kurile Islands 49.33 N 156.15 E
	eS	B	18 10	H = 06 56 45.1 h = 58.0 km MB = 5.5
	eSS	B	23 15	D = 75.88 Az = 338 (NEIS)
	eSSS	B	26 40	PV A 1.4s 246.0nm M = 6.1
	LmH	B	48.2	PV B 5 1.2/um 6.3
	LmV	B	48.2	LmH B 15.5 7.9/um
				LmV B 16 7.9/um
11.	eP	A	07 23 28	Kurile Islands 49.34 N 156.10 E
				H = 07 11 42.3 h = 23.3 km MB = 5.0
				D = 75.86 Az = 338 (NEIS)
				PV A 1.3s 19.6nm M = 5.0
11.	LmH	B	15 10.5	Philippine Islands Region
	LmV	B	15.0	19.87 N 121.32 E
				H = 14 16 01.5 h = 57 km MB = 4.9 (ISC)
				D = 86.6
11.	eP	A	20 33 36.5	Kurile Islands 49.28 N 156.19 E
				H = 20 21 52.8 h = 44.8 km MB = 4.9
				D = 75.93 Az = 338 (NEIS)
				PV A 1.2s 24.4nm M = 5.0
11.	eP	A	20 47 00	Kurile Islands 49.22 N 156.21 E
	LmV	B	21 24.8	H = 20 35 15.4 h = 40.0 km MB = 5.1
	LmH	B	26.9	D = 76.00 Az = 338 (NEIS)
				PV A 0.7s 42.2nm M = 5.5

Day	Phase		h m s	Remarks
cont. 11.				LmH B 16s 0.6/um M = 5.0
				LmV B 16 0.6/um 5.1
11.	eP	A	23 15 33.5	Southern Greece 37.43 N 23.76 E
				H = 23 11 47.7 h = 41.6 km MB = 4.6
				D = 15.81 Az = 331 (NEIS)
12.	eP	A	08 43 01.5	Kurile Islands 49.27 N 156.26 E
				H = 08 31 18.2 h = 43.4 km MB = 4.9
				D = 75.96 Az = 338 (NEIS)
				PV A 1.2s 24.4nm M = 5.0
12.	+eP	AB	10 23 36	Kurile Islands 49.23 N 156.20 E
	e	A	23 49	H = 10 11 52.8 h = 46.0 km MB = 5.4
	LmH	B	11 03.4	D = 75.98 Az = 338 (NEIS)
	LmV	B	03.5	PV A 1.3s 126.5nm M = 5.7
				LmH B 17 2.4/um 5.6
				LmV B 16 2.0/um 5.6
12.	eP	A	11 54 50.5	Kurile Islands 49.25 N 156.24 E
				H = 11 43 06.9 h = 45.3 km MB = 4.6
				D = 75.98 Az = 338 (NEIS)
				PV A 1.3s 17.5nm M = 4.9
12.	eP	A	19 30 50	Iceland Region 62.09 N 26.52 W
	LmH	B	41.2	H = 19 25 38.2 h = normal MB = 4.3
	LmV	B	41.4	D = 23.64 Az = 101 (NEIS)
				PV A 1.7s 24.2nm M = 4.4
				LmH B 16 0.3/um 3.8
				LmV B 14 0.3/um 4.0
13.	eP	A	00 26 27	Greece 38.24 N 22.63 E
				H = 00 22 51.2 h = 36.2 km MB = 4.5
				D = 14.67 Az = 331 (NEIS)
13.	eP	A	06 48 16	Mariana Islands Region 21.61 N 143.01E
				H = 06 35 20.5 h = 288.4 km MB = 5.1
				D = 96.28 Az = 331 (NEIS)

Day	Phase		h m s	Remarks
13.	ePKHKP	A	09 53 51	Tonga Islands 21.43 S 174.25 W
	ePKP2	A	53 58	H = 09 34 0.7 h = 25.5 km MB=5.0 MS=5.1
				D = 150.48 Az = 352 (NEIS)
				PKHKPV A 1.4s 27.8nm
13.	LmH	B	12 58.0	Tschinghai Prov., China 33.16 N 92.73 E
	LmV	B	13 02.0	H = 12 24 27.6 h = 33.0 km MB = 4.9
				D = 59.85 Az = 313 (NEIS)
				LmH C 18s 0.7/um M = 4.8
				LmV C 14 0.45/um 4.8
13.	ePKP	A	21 26 29	Samoa Islands Region 16.80 S 171.91 W
				H = 21 06 50.4 h = 33.6 km MB = 4.9
				D = 146.12 Az = 356 (NEIS)
				PKPV A 1.6s 27.4nm
13.	eP	A	21 32 48	Molucca Passage 1.02 N 126.06 E
	ei	A	32 54.5	H = 21 18 41.3 h = 36.2 km MB=5.8 MS=6.3
	ePP	C	37 12	D = 104.46 Az = 323 (NEIS)
	ePPP	C	39 28	PV A 1.8s 40.5nm M = 6.0
	eSKS	C	43 20	LmH B 21 10.1/um 6.3
	eS	C	44 36	LmV B 21 11.2/um 6.4
	eSP	C	46 24	
	ePPS	C	47 12	
	ePKKP	A	48 57	
	eSS	C	52 00	
	LmH	B	22 23.4	
	LmV	B	23.4	
14.	ePKP	A	02 35 46	Fiji Islands Region 16.94 S 177.38 W
				H = 02 16 58.2 h = 445.5 km MB = 4.5
				D = 145.60 Az = 350 (NEIS)
				PKPV A 1.6s 22.0nm
14.	ePKHKP	A	09 58 58.5	Tonga Islands 21.94 S 174.92 W
	ePKP2	A	59 08	H = 09 39 07.3 h = 33 km MB = 4.8 (NEIS)
	e	A	59 21	D = 151.2
	LmH	C	11 15.0	PKHKPV A 1.4s 20.9nm
	LmV	C	15.0	PKP2V A 1.6 38.4nm
				LmH, LmV traces

Day	Phase		h m s	Remarks
14.	ePg	A	11 00 28	Czechoslovakia 50.49 N 13.95 E
	eSg	A	00 48.5	Explosion H = 11 00.0 yield 5.5 t (PRU)
				D = 1.50 Az = 277 (ISC)
14.	ePg	A	11 01 04.5	D = 1.3
	eSg	A	01 21.5	
14.	eP	AZ	11 53 27.5	Kurile Islands 47.09 N 151.09 E
				H = 11 41 55.2 h = 174.4 km MB = 4.8
				D = 76.56 Az = 335 (NEIS)
14.	+iP	AB	14 12 18.5	Southern Nevada 37.22 N 116.47 W
	e	A	15 13	H = 14 00 00.4 h = 0.0 km MB = 6.0
	ePP	A	15 22	D = 81.32 Az = 30 (NEIS)
	LmH	B	50.4	Nuclear Explosion TOBO (USAEC)
	LmV	B	50.4	PV A 1.3s 135.3nm M = 5.8
				PPV A 1.7 60.6nm 5.6
				LmH B 16 0.5/um 4.9
				LmV B 16 0.7/um 5.1
14.	eiP	AB	22 31 05	Hindu Kush Region 36.08 N 70.89 E
	epP	AB	31 27.5	H = 22 23 02.8 h = 99.0 km MB = 5.5
	esP	A	31 40	D = 44.31 Az = 308 (NEIS)
	ePP	A	33 03	h = 100 km
	epPP	AC	33 14	PV A 1.4s 46.5nm M = 5.1
	eS	C	37 25	pPV A 1.5 60.3nm
	eSS	C	40 55	sPV A 1.8 81.1nm
	LmH	B	53.4	PPV A 1.8 74.3nm 5.3
	LmV	B	53.4	LmH B 16 0.5/um
				LmV B 16 0.9/um
15.	ePKP	A	08 54 21.5	Fiji Islands Region 17.47 S 178.66 W
				H = 08 35 40.5 h = 528.9 km MB = 5.1
				D = 145.90 Az = 348 (NEIS)
15.	ePKP	A	18 52 23.5	Fiji Islands Region 18.05 S 177.86 W
	eiPKP	A	52 26	H = 18 33 52.6 h = 634.2 km MB = 5.1
				D = 146.61 Az = 349 (NEIS)
				eiPKPV A 1.3s 48.0nm

Day	Phase		h m s	Remarks
15.	e	A	18 55 02	
15.	eP	A	21 19 09	Andaman Islands Region 12.15 N 93.72 E
	epP	A	19 42	H = 21 07 34.4 h = 103.0 km MB = 5.0
				D = 75.72 Az = 319 (NEIS)
				h = 129 km
				PV A 0.8s 11.6nm M = 4.8
16.	eP	A	01 25 58	Eastern Sea of Japan 41.32 N 136.14 E
	LmV	B	02 05.8	H = 01 14 05.7 h = 1.7 km MB=5.7 MS=5.5
	LmH	B	07.6	D = 76.38 Az = 327 (NEIS)
				LmH B 13s 0.6/um M = 5.1
				LmV B 12 0.9/um 5.3
16.	eP	A	02 35 41	North Atlantic Ridge 43.76 N 28.93 W
	ePP	B	36 24	H = 02 29 51.1 h = 33.0 km MB = 4.9
	eS	B	40 28	D = 28.11 Az = 61 (NEIS)
	LmH	B	44.2	PV A 1.3s 10.9nm M = 4.3
	LmV	B	46.6	LmH B 14.5 2.1/um 4.9
				LmV B 13 1.6/um 4.9
16.	+eP	A	08 09 33.5	Unimak Island Region 54.09 N 163.09 W
	e	A	09 50	H = 07 57 47.5 h = 9.2 km MB=5.4 MS=5.1
	eS	B	19 14	D = 75.54 Az = 3 (NEIS)
	LmH	B	47.5	PV A 1.0s 39.4nm M = 5.4
	LmV	B	52.4	LmH B 20 0.8/um 5.0
				LmV B 17 0.7/um 5.1
16.	iPg	A	10 49 48.5	German Democratic Republic
	iSg	A	50 05	51°22.3' N 12°53.5' E
				Explosion H = 10 49.4 yield 5.275 t (CLL)
				D = 1.08 Az = 228 (ISC)
16.	eP	A	17 32 34	North Atlantic Ridge 43.65 N 28.94 W
	LmH	B	43.5	H = 17 26 43.1 h = 27.5 km MB=4.8 MS=4.3
	LmV	B	43.5	D = 28.17 Az = 61 (NEIS)
				PV A traces
				LmH B 12.5s 0.6/um M = 4.4
				LmV B 12 0.5/um 4.4

Day	Phase		h m s	Remarks
16.	ePn	A	19 42 43	Yugoslavia 45.50 N 14.37 E
	ePg	A	43 03	H = 19 41 20.9 h = 16.7 km MB = 3.5
	iSn	A	43 44.5	D = 5.47 Az = 341 (NEIS)
	eiSg	A	44 16	
17.	e	A	12 02 33	
17.	ePKP	A	12 32 32.5	Fiji Islands Region 15.57 S 177.92 W
				H = 12 13 43.8 h = 400.9 km MB = 4.4
				D = 144.17 Az = 350 (NEIS)
				PKPV A traces
17.	eP	A	16 27 00	Southern Iran 27.52 N 57.74 E
	e	A	27 31	H = 16 19 12.5 h = 33.0 km MB=4.9 MS=4.8
	eS	C	33 15	D = 41.73 Az = 316 (NEIS)
	eSS	C	36 40	LmH B 18s 0.9/um M = 4.7
	LmH	B	48.8	LmV B 19 1.1/um 4.9
	LmV	B	48.8	
18.	ePn	A	01 23 02	Yugoslavia 45.53 N 14.42 E
	eSn	A	23 04	H = 01 21 39.5 h = 10.0 km
	eSg	A	23 35	D = 5.46 Az = 341 (NEIS)
	e	A	23 40	
18.	e	A	14 52 56	Southern Persia 27.0 N 58.2 E
				H = 14 44 24 (BCIS)
				D = 42.3
18.	+eP	A	15 53 32	Central Alaska 63.17 N 150.26 W
	+ipP	A	54 00.8	H = 15 42 59.1 h = 106.0 km MB = 5.4
	e	B	54 09	D = 65.63 Az = 13 (NEIS)
	eS	B	16 02 05	h = 115 km
	e	B	02 47	PV A 1.7s 91.0nm M = 5.4
	eSS	B	06 20	LmH B 23 0.4/um
	e	B	07 20	
	LmH	B	15.0	
	LmV	B	16.0	

Day	Phase		h m s	Remarks
18.	LmH	B	17 56.5	Southern Chile 45.66 S 76.49 W
	LmV	B	57.5	H = 16 48 37.8 h = 26 km MB = 5.3 (ISC)
				D = 122.4
				LmH B 22s 0.7/um M = 5.1
				LmV B 20 0.9/um 5.3
18.	eP	A	17 59 36	Afghanistan - USSR Border Region
				36.07 N 71.13 E
				H = 17 51 30.3 h = 94.1 km MB = 4.8
				D = 44.46 Az = 308 (NEIS)
				PV A traces
18.	+eP	AB	22 46 05.5	Kurile Islands 44.37 N 147.78 E
				H = 22 34 17.3 h = 100.3 km MB = 5.3
				D = 77.99 Az = 333 (NEIS)
				PV A 1.6s 79.6nm M = 5.3
18.	ePKIKP	AB	24 13 37.5	Tonga Islands 20.97 S 173.99 W
	eiPKHKP	AB	13 42	H = 23 53 53.8 h = 42.5 km MB=5.4 MS=6.0
	ePKP2	A	13 50	D = 150.05 Az = 353 (NEIS)
	eSKKS	B	24 05	PKHKPV A 2.2s 283.0nm
	eSKSP	C	27 45	PKHKPH A 2.0 108.0nm
	eSS	C	36 30	PKHKPV B 4.5 1.0/um
	LmH	B	25 28.0	LmH B 19 1.4/um M = 5.7
	LmV	B	28.1	LmV B 18 1.7/um 5.9
19.	ePg	A	00 45 07	Northern Italy 44.66 N 10.49 E
	eSg	A	46 33	H = 00 43 11.3 h = 33 km (NEIS)
				D = 6.06
19.	eP	A	03 29 49.5	Greece 38.40 N 22.27 E
	e	A	29 07.5	H = 03 26 19.0 h = 15.5 km MB = 4.8
	e	A	29 15.5	D = 14.39 Az = 332 (NEIS)
	LmH	B	34.7	LmH B 13s 1.1/um M = 4.1
	LmV	B	36.8	LmV B 13 0.7/um
19.	eP	A	08 08 46	Arabian Sea 21.08 N 61.80 E
	LmV	B	36.0	H = 08 00 01.0 h = 33.0 km MB = 5.0

Day	Phase		h m s	Remarks
cont. 19.	LmH	B	08 36.8	D = 48.98 Az = 320 (NEIS)
				LmH B 14s 0.3/um M = 4.4
				LmV B 16 0.25/um 4.4
19.	ePKHKP	A	08 50 12	Tonga 20.7 S 173.8 W
	ePKP2	A	50 23	H = 08 30 23 h = 33 km
				D = 149.77 Az = 353 (ISC)
19.	ePg	A	11 35 20.5	Northern Italy 44.42 N 10.82 E
	e	A	35 39	H = 11 33 21.0 h = 33.0 km MB = 3.8
	eSn	A	36 02	D = 6.25 Az = 5 (NEIS)
	eSg	AB	36 43	
19.	eP	A	17 32 46	Mid-Indian Rise 14.57 S 66.33 E
				H = 17 20 36.0 h = 33 km
				D = 80.59 Az = 328 (ISC)
19.	+eP	AB	19 56 47	Kashmir-Tibet Border Region
	e	A	58 25	35.16 N 80.80 E
	ePP	C	58 50	H = 19 47 44.8 h = 25.8 km MB=5.5 MS=5.1
	ePPP	C	59 40	D = 51.14 Az = 310 (NEIS)
	eS	B	20 04 00	PV A 1.6s 77.0nm M = 5.4
	eSS	B	07 35	LmH B 19 5.6/um 5.6
	LmH	B	17.2	LmV B 14 3.8/um 5.6
	LmV	B	20.8	
19.	+iP	AB	22 53 58.4	Kurile Islands Region 49.73 N 157.40 E
	LmV	C	23 32.7	H = 22 42 17.0 h = 57.0 km MB = 5.4
	LmH	C	33.0	D = 75.82 Az = 338 (NEIS)
				PV A 1.5s 85.5nm M = 5.3
				LmH C 19 0.45/um
				LmV C 19 0.35/um
19.	eP	A	23 28 36	Greece-Albania Border Region
				39.56 N 19.82 E
				H = 23 25 40.6 h = 46.5 km MB = 4.6
				D = 12.50 Az = 335 (NEIS)

Day	Phase		h m s	Remarks
19.	e(P)	A	23 36 11.5	Poland 54.2 N 19.6 E
				H = 23 34 48 h = 33 km
				D = 6.07 Az = 237 (ISC)
20.	eP	A	14 16(21)	Southern Italy 41.14 N 15.34 E
	e	A	17 50	H = 14 13 57.6 h = 33.0 km
	e	A	19 37	D = 9.85 Az = 346 (NEIS)
	LmH	B	19.9	LmH B 12s 0.6/um M = 3.6
	LmV	C	21.0	
20.	+eiPKIKP	A	14 50 58.5	South of Fiji Islands 25.09 S 178.99 W
	ePKHKP	A	51 06.5	H = 14 31 50.4 h = 362 km MB = 5.1
	+iPKP	A	51 20.5	D = 153.20 Az = 345 (NEIS)
				PKIKPV A 1.3s 39.3nm
				PKHKPV A 1.4 69.8nm
				PKP2V A 1.3 83.0nm
20.	ePKP	A	20 00 09.5	Tonga Islands 15.06 S 173.35 W
				H = 19 40 28.4 h = 1.6 km MB=5.2 MS=4.4
				D = 144.28 Az = 355 (NEIS)
				PKPV A 1.5s 25.2nm
20.	ePKP2	A	21 41 11	Kermadec Islands 30.18 S 178.00 W
				H = 21 20 42.1 h = 51 km MB = 4.9 (NEIS)
				D = 158.3
20.	eX	A	21 51 56.5	Sumbawa Island Region 9.60 S 118.92 E
	LmH	C	22 35.7	H = 21 33 10.1 h = 61.5 km MB = 5.8
	LmV	C	35.7	D = 108.33 Az = 320 (NEIS)
				XV A 1.6s 16.5nm
21.	-eiP	A	03 27 08.5	Burma-India Border Region
	epP	A	27 28	23.87 N 94.11 E
	esP	A	27 36	H = 03 16 20.6 h = 72.0 km MB = 5.3
	ePP	A	29 50	D = 67.26 Az = 317 (NEIS)
	LmH	C	53.3	h = 76 km
	LmV	C	54.5	PV A 1.8s 81.1nm M = 5.4
				LmH C 34 1.3/um
				LmV C 40 1.0/um

Day	Phase		h m s	Remarks
21.	ePKHKP	A	03 52 23	Tonga 20.6 S 173.7 W
	ePKP2	A	52 44	H = 03 32 32.1 h = 33 km
				D = 149.71 Az = 353 (ISC)
21.	e(Pg)	A	04 12 37	Northern Italy 45.73 N 9.06 E
	e(Sg)	A	13 41	H = 04 10 44.9 h = 16 km (NEIS)
				D = 6.1
21.	eP	A	06 45 58	Southern Alaska 60.18 N 147.58 W
				H = 06 34 54.9 h = 35.3 km MB=4.8 MS=4.7
				D = 68.25 Az = 14 (NEIS)
				PV A 1.3s 43.7nm M = 5.4
21.	-iP	A	07 00 25	Near S. Coast of Southern Honshu
				33.20 N 136.56 E
				H = 06 48 39.6 h = 392.4 km MB = 4.9
				D = 83.42 Az = 328 (NEIS)
				PV A 1.6s 55.0nm M = 5.1
21.	ePKP	A	14 48 06	Fiji Islands Region 17.70 S 178.30 W
				H = 14 29 27.6 h = 589.8 km MB = 4.4
				D = 146.19 Az = 349 (NEIS)
				PKPV A traces
22.	e	A	12 37 45	Poland 51.0 N 20.3 E
				H = 12 35 17 h = 33 km
				D = 5.51 Az = 270 (ISC)
22.	LmV	B	16 05.5	Near Coast of Central Chile
	LmH	B	08.6	38.00 S 73.81 W
				H = 14 59 53.8 h = 33 km MB = 5.0 (ISC)
				D = 115.5
22.	ePKP	A	17 27 55.5	New Hebrides 20.24 S 169.11 E
	e	A	28 02.5	H = 17 08 20.9 h = 33 km
				D = 144.84 Az = 335 (ISC)

Day	Phase		h m s	Remarks
23.	ePKHKP	A	02 44 16.5	Fiji Islands Region 20.66 S 179.23 W
				H = 02 25 41.1 h = 662.8 km MB = 4.5
				D = 148.87 Az = 347 (NEIS)
23.	ePKHKP	AZ	06 22 04	Tonga Islands 20.80 S 173.84 W
	ePKP2	A	22 15.5	H = 06 02 16.0 h = 33.0 km MB = 4.7
				D = 149.91 Az = 353 (NEIS)
23.	eP1	A	15 24 07	Queen Charlotte Islands Region
	eP2	A	24 09	51.34 N 131.24 W
				H = 15 12 33.2 h = 33 km MB=5.1 MS=5.6
				D = 73.60 Az = 24 (NEIS)
				P2V A 1.2s 20.3nm M = 5.0
23.	eP	A	15 56 31	Taiwan Region 22.76 N 122.58 E
	epP	A	56 41	H = 15 43 55.3 h = 24.6 km MB = 5.4
	esP	A	56 47	D = 85.05 Az = 323 (NEIS)
				h = 40 km
				PV A 1.4s 23.2nm M = 5.2
23.	eiP	AB	16 14 27	Taiwan Region 22.70 N 122.57 E
	ePP	B	17 46	H = 16 01 49.2 h = 6.1 km MB=5.9 MS=6.2
	eS	BC	24 52	D = 85.09 Az = 323 (NEIS)
	eSS	C	30 10	PV A 1.7s 203.0nm M = 6.1
	ePKKP	A	32 34.5	SH B 21 12.0/um 6.6
	e	A	32 47.5	LmH B 15 33.4/um 6.8
	LmH	B	53.9	LmV B 16 24.6/um 6.7
	LmV	B	57.8	
23.	LmH	B	24 10.0	Mindoro 13.67 N 120.93 E
	LmV	B	14.0	H = 23 16 12 h = 35 km MB = 4.9 (ISC)
				D = 91.3
				LmH B 16s 0.6/um M = 5.1
				LmV B 16 0.5/um 5.0
24.	eP	A	01 07 36	Taiwan Region 25.03 N 122.84 E
				H = 00 55 22.3 h = 133.2 km MB = 4.9
				D = 83.37 Az = 323 (NEIS)

Day	Phase		h m s	Remarks
24.	ePKHKP	AB	02 13 29.5	Tonga Islands 20.91 S 173.77 W
	LmH	B	03 24.0	H = 01 53 38.0 h = 18.9 km MB=5.1 MS=5.5
	LmV	B	28.4	D = 150.02 Az = 353 (NEIS)
				PKHKPV A 1.9s 75.7nm
				LmH B 20 0.6/um M = 5.3
				LmV B 18 0.5/um 5.3
24.	ePKHKP	A	06 14 05.5	Tonga Islands 20.78 S 173.86 W
	LmV	C	07 21.4	H = 05 54 16.1 h = 33.0 km MB=5.1 MS=5.1
	LmH	C	21.6	D = 149.88 Az = 353 (NEIS)
				PKHKPV A 1.2s 30.5nm
				LmH C 22 0.35/um M = 5.0
				LmV C 20 0.30/um 5.1
24.	ePKP	A	10 56 41.5	Tonga Islands 18.24 S 174.28 W
				H = 10 37 03.2 h = 55.0 km MB=5.4 MS=3.7
				D = 147.32 Az = 353 (NEIS)
				PKPV A 1.2s 28.5nm
24.	eP	A	22 07 47	Arabian Sea 14.43 N 56.15 E
	e	A	07 52.5	H = 21 58 47.2 h = 33.0 km MB = 4.8
				D = 50.90 Az = 325 (NEIS)
24.	eP	A	22 24 03.5	Kurile Islands 45.04 N 149.27 E
				H = 22 12 12.5 h = 74.1 km MB = 4.6
				D = 77.86 Az = 334 (NEIS)
24.	e	A	22 51 48	
	eSg	A	52 20	
24.	ePKHKP	A	23 30 21	Fiji Islands Region 20.38 S 178.19 W
				H = 23 11 35.6 h = 569.4 km MB = 4.7
				D = 148.82 Az = 348 (NEIS)
				PKHKPV A 1.8s 33.8nm
24.	ePKIKP	A	23 59 31	Fiji Islands Region 17.56 S 178.66 W
	ePKHKP	A	59 33	H = 23 40 54.7 h = 560.0 km MB = 5.5
	ePKP2	A	59 35.5	D = 145.98 Az = 348 (NEIS)
				PKHKPV A 1.4s 79.0nm

Day	Phase		h m s	Remarks
25.	eP	A	01 41 42	Arabian Sea 14.34 N 56.30 E H = 01 32 36.2 h = 33.0 km MB = 4.9 D = 51.05 Az = 325 (NEIS)
25.	eP	A	15 58 48.5	Gulf of Alaska 57.50 N 150.12 W H = 15 47 30.4 h = 33 km MB = 4.6 MS = 4.8 (NEIS) D = 71.2 PV A 1.5s 15.1nm M = 4.8
25.	-eiP	AB	19 15 53	Gulf of Alaska 57.38 N 150.12 W
	eS	B	25 12	H = 19 04 34.4 h = 33.0 km MB=5.6 MS=5.4
	eSS	C	30 20	D = 71.30 Az = 12 (NEIS)
	LmH	B	56.5	PV A 1.7s 188.0nm M = 5.9
	LmV	B	57.0	LmH B 17.5 2.0/um 5.4
				LmV B 14 1.6/um 5.5
25.	eP	A	20 39 11.5	Arabian Sea 14.41 N 56.22 E H = 20 30 11.1 h = 33.0 km MB = 5.1 D = 50.96 Az = 325 (NEIS)
26.	ePKIKP	A	04 55 45	Solomon Islands 6.79 S 155.60 E
	epPKIKP	A	56 08	H = 04 36 48.6 h = 81.0 km MB = 5.6 D = 127.01 Az = 332 (NEIS) h = 82 km PKIKPV A 1.3s 21.8nm
26.	+iP	A	09 17 20.5	North Atlantic Ocean 36.00 N 17.65 W
	eiS	B	21 55	H = 09 11 51.5 h = 33.0 km MB=6.7 MS=7.9
	LmH	B	(30.0)	D = 25.63 Az = 46 (NEIS)
	LmV	B	(30.0)	PV A 2.0s 3034.2nm M = 6.5 PmV A off scale
				PV B 11 603.8/um 8.1
				PH B 12 366.0/um 7.9
				LmH / LmV off scale
26.	e	A	09 59 19	North Atlantic Ocean 35.79 N 17.2 W H = 09 53 31 h = 60 km ME = 4.8 (ISC) D = 25.4

Day	Phase		h m s	Remarks
26.	eP	A	10 28 17	North Atlantic Ocean 35.99 N 17.58 W H = 10 22 48.4 h = 33.0 km MB = 4.6 D = 25.6 Az = 46 (NEIS) PV A 1.4s 23.2nm M = 4.6
26.	eP	A	11 09 02	North Atlantic Ocean 35.80 N 17.64 W H = 11 03 32.5 h = 33.0 km MB = 4.6 D = 25.76 Az = 46 (NEIS)
26.	e	A	11 37 52.5	Madeira Region 34.9 N 17.0 W H = 11 32 08 h = 0 km MB = 4.4 D = 26.05 Az = 44 (ISC)
26.	eP	A	14 19 29.5	North Atlantic Ocean 35.7 N 17.3 W H = 14 13 59 (BCIS) D = 25.5
26.	e(P)	A	17 09 27	North Atlantic Ocean 35.84 N 18.11 W
	LmH	B	17.4	H = 17 03 49.6 h = 33.0 km MB = 4.2
	LmV	B	20.0	D = 26.0 Az = 46 (NEIS) LmH B 14s 0.2/um M = 3.9
26.	eP	A	18 09 56.5	Southern Sinkiang Prov., China
	ePP	A	11 34	40.31 N 78.04 E
	e	A	26 36	H = 18 01 34.5 h = 49.8 km MB = 5.0
	LmH	B	30.5	D = 46.24 Az = 306 (NEIS)
	LmV	B	30.5	PV A 1.2s 16.3nm M = 4.8
				LmH B 17 1.2/um 4.9
				LmV B 16 1.3/um 5.1
26.	eP	A	18 35 00	Hokkaido, Japan Region 42.93 N 145.16 E H = 18 23 03.9 h = 52.8 km ME = 5.1 D = 78.40 Az = 332 (NEIS) PV A 1.6s 27.5nm M = 5.0
26.	+iP	AB	20 25 03	North Atlantic Ocean 36.03 N 17.59 W
	eS	B	29 30	H = 20 19 35.2 h = 33.0 km MB=5.6 MS=5.3
	eSS	B	30 24	D = 25.57 Az = 46 (NEIS)

Day	Phase		h m s	Remarks
cont. 26.	LmH	B	20 34.8	PV A 1.5s 136.0nm M = 5.3
	LmV	B	38.0	PV B 7 0.8/um 5.4
				LmH B 17 2.5/um 4.8
				LmV B 16 2.2/um 4.9
26.	eP	A	22 06 33	North Atlantic Ocean 36.19 N 17.79 W
	eX	A	06 47	H = 22 01 04.4 h = 33.0 km MB=4.7 MS=4.8
	eS	B	11 08	D = 25.58 Az = 46 (NEIS)
	LmH	B	14.3	PV A 1.6s 16.5nm M = 4.4
	LmV	B	17.0	XV A 1.4 32.6nm
				LmH B 18 0.8/um 4.3
				LmV B 14 0.5/um 4.3
27.	LmH	B	01 31.2	Ryukyu Islands 28.23 N 129.43 E
	LmV	B	31.4	H = 00 36 21.3 h = 10.8 km MB = 5.0
				D = 84.22 Az = 326 (NEIS)
				LmH B 16s 0.7/um M = 5.1
				LmV B 15 0.8/um 5.2
27.	eP	A	03 21 33	North Atlantic Ocean 36.2 N 17.9 W
				H = 03 15 58 (BCIS)
				D = 25.6
27.	eP	A	06 53 16	Kurile Islands 44.15 N 148.40 E
	LmV	B	07 32.1	H = 06 41 19.5 h = 45.0 km MB=5.2 MS=4.4
	LmH	B	32.2	D = 78.39 Az = 334 (NEIS)
				PV A 1.3s 26.2nm M = 5.1
				LmH B 16 0.7/um 5.1
				LmV B 16 0.6/um 5.1
27.	ePKIKP	A	09 31 04.5	Fiji Islands Region 21.11 S 175.97 W
	ePKHKP	A	31 09.5	H = 09 11 35.1 h = 142.0 km MB = 5.2
	epPKP	A	31 47	D = 149.92 Az = 350 (NEIS)
				PKHKPV A 1.4s 46.5nm
27.	eP	A	10 32 26	Northern Celebes 0.77 N 122.62 E
	e	A	35 27	H = 10 18 35.6 h = 70.0 km MB = 6.1
	ePP	A	36 44	D = 102.59 Az = 322 (NEIS)

Day	Phase		h m s	Remarks
cont. 27.	eS	B	10 44 04	PV A 2.0s 51.3nm M = 5.9
	esS	B	44 36	LmH B 16 1.2/um
	eSS	C	51 22	LmV B 17 0.9/um
	LmH	B	11 19.2	
	LmV	B	25.4	
27.	ePKP	A	10 43 55	Loyalty Islands Region 21.87 S 170.37 E
				H = 10 24 19.2 h = 61 km (NEIS)
				D = 146.8
				PKPV A 1.2s 12.2nm
28.	eP	A	02 15 18.5	Southern Greece 37 ½ N 22 ½ E
				H = 02 11 40 (BCIS)
				D = 15.4
28.	ePKP	A	03 15 01	Samoa Islands Region 16.42 S 172.37 W
	LmH	B	27.5	H = 02 55 21.1 h = 20.7 km MB=5.2 MS=5.2
	LmV	B	27.5	D = 145.71 Az = 355 (NEIS)
				PKPV A 1.5s 30.2nm
				LmH B 16 0.5/um M = 5.3
				LmV B 16 0.4/um 5.1
28.	ePKIKP	A	14 16 15.5	Near Coast of Central Chile
	e	A	16 23	37.93 S 73.42 W
	LmH	B	15 05.3	H = 13 57 34.5 h = 24.0 km MB=5.8 MS=5.5
	LmV	B	07.3	D = 115.37 Az = 45 (NEIS)
				PKIKPV A 1.4s 18.6nm
				XV A 1.6 30.2nm
				LmH B 19 1.5/um M = 5.7
				LmV B 18 2.4/um 5.9
28.	eP	A	17 08 21.5	Afghanistan-USSR Border Region
				36.40 N 71.07 E
				H = 17 00 35.5 h = 255.0 km MB = 4.7
				D = 44.22 Az = 308 (NEIS)
28.	ePn	A	17 58 10	
	ei(Sg)	A	58 43	

Day	Phase		h m s	Remarks
28.	eP	A	23 06 45	Kurile Islands 46.75 N 153.43 E H = 22 54 51.6 h = 44.0 km MB = 4.7 D = 77.54 Az = 336 (NEIS)
29.	ePg	A	00 34 31	France 46.14 N 5.94 E H = 00 32 40.9 h = 33 km (NEIS) D = 5.90
	eSn	A	35 13	
	eSg	A	35 50	
29.	eSg	A	00 48 20.5	France 46.23 N 5.87 E H = 00 45 11.8 h = 33 km (NEIS) D = 5.9
29.	ePKIKP	A	07 00 51	South of Fiji Islands 22.44 S 179.53 E H = 06 42 12.8 h = 616.0 km MB = 5.6 D = 150.30 Az = 344 (NEIS) PKIKPV A 1.3s 34.9nm PKHKPV A 1.2 256.0nm PKP2V A 1.2 224.0nm
	-eiPKHKP	AB	00 57	
	+iPKP2	AB	01 06	
29.	eP	A	15 56 34	Near S. Coast of Honshu, Japan 33.01 N 137.17 E H = 15 44 44.5 h = 378.0 km MB = 5.1 D = 83.86 Az = 329 (NEIS) h = 387 km PV A 1.7s 36.4nm M = 4.9 pPV A 2.2 98.2nm LmV C 13 0.7/um
	epP	A	58 01.5	
	ePP	A	59 50.5	
	e	A	59 55	
	eS	B	16 06 18	
	LmH	C	35.3	
	LmV	C	38.0	
29.	eP	A	19 20 07.5	Honshu, Japan 36.88 N 138.71 E H = 19 07 51.2 h = 16.1 km MB = 4.9 D = 81.20 Az = 329 (NEIS) PV A 1.1s 8.1nm M = 4.7
29.	eP	A	-23 04 10.5	North Atlantic Ocean 35.67 N 17.77 W H = 22 58 39.5 h = 33.0 km MB=4.8 MS=4.8 D = 25.93 Az = 46 (NEIS) PV A 1.4s 23.3nm M = 4.6 LmH B 16 1.3/um 4.6 LmV B 14 1.7/um 4.9
	eS	B	08 48	
	LmH	B	12.5	
	LmV	B	17.1	

Day	Phase		h m s	Remarks
30.	ePKHKP	A	01 35 52	Fiji Islands Region 21.79 S 179.07 W H = 01 17 04.5 h = 555.0 km MB = 4.7 D = 150.00 Az = 346 (NEIS)
	ePKP2	A	36 00	
30.	ePKP2	A	02 31 36	South of Tonga Islands 25.11 S 175.32 W H = 02 11 22.4 h = 33.0 km MB = 4.8 D = 153.95 Az = 350 (NEIS)
30.	eP	A	04 19 01.5	Kurile Islands 46.35 N 149.64 E H = 04 07 27.6 h = 172.2 km MB = 4.9 D = 76.80 Az = 334 (NEIS) PV A 1.1s 12.1nm M = 4.5
30.	eP	A	10 37 09	Kurile Islands 46.65 N 152.64 E H = 10 25 17.9 h = 50.8 km MB = 4.8 D = 77.41 Az = 336 (NEIS) PV A 1.1s 12.1nm M = 4.8
30.	e	A	13 49 41	Southeast of Taiwan 22.69 N 122.96 E H = 13 36 56.3 h = 33.0 km MB = 4.9 D = 85.31 Az = 323 (NEIS) traces
	e	A	49 51	
30.	eP	A	14 26 38	Turkey 38.73 N 27.62 E H = 14 22 40.8 h = 9.5 km D = 16.3 Az = 322 (NEIS) LmH B 16s 0.5/um M = 3.8 LmV B 12 0.6/um 4.2
	e	A	27 26.5	
	LmH	B	31.7	
	LmV	B	33.6	
30.	LmH	B	15 11.4	Taiwan Region 22.65 N 122.87 E H = 14 14 37.9 h = 11 km MB = 5.0 (ISC) D = 85.3 LmH B 15s 1.6/um M = 5.5 LmV B 14 1.9/um 5.7
	LmV	B	11.4	
30.	+eiP	AB	17 55 51	Burma 26.64 N 97.03 E H = 17 45 0.6 h = 57.0 km MB = 5.6 D = 67.07 Az = 316 (NEIS) PV A 1.5s 85.5nm M = 5.5
	ePP	AB	58 25	
	eS	B	18 04 40	
	eSS	B	09 00	

Day	Phase	h m s	Remarks
cont. 30.	LmH B	18 24.5	PV B 9s 2.0/um M = 6.0
	LmV B	29.4	PPV A 2.0 102.6nm 5.8
			PPV B 9 1.0/um 6.1
			SH B 13.5 3.0/um 6.2
			LmH B 19 9.3/um
			LmV B 16 8.4/um
30.	ePKHKP A	18 06 08	South of Australia 50.42 S 139.35 E
	ePKP2 A	06 12	H = 17 46 24.5 h = 33.0 km MB=5.6 MS=6.1
			D = 147.35 Az = 291 (NEIS)
			PKHKPV A 1.5s 22.6nm
			PKP2V A 2.0 137.0nm
30.	ePKIKP A	18 09 17	South of Australia 50.07 S 139.26 E
	ePKIKPm A	09 29	H = 17 49 41.5 h = 45.0 km MB = 5.4
			D = 147.17 Az = 292 (NEIS)
			PKIKPmV A 1.8s 98.0nm
30.	eP A	20 27 46	Southwestern Atlantic Ocean
			59.33 S 17.99 W
			H = 20 09 12.9 h = 33.0 km MB = 5.3
			D = 112.23 Az = 20 (NEIS)
			PV A traces
30.	eP A	22 09 13.5	Hokkaido, Japan Region 42.45 N 142.49 E
	e A	09 19.5	H = 21 57 27.0 h = 118.7 km MB = 5.1
			D = 77.86 Az = 331 (NEIS)
30.	e A	23 32 55	
	iSg A	33 15	
31.	eP A	05 41 15	Turkey 36.16 N 29.02 E
			H = 05 36 52.9 h = 42.1 km MB = 4.0
			D = 19.15 Az = 325 (NEIS)
31.	ePKIKP A	07 38 53.5	Fiji Islands Region 20.24 S 177.96 W
	ePKHKP A	38 57.5	H = 07 20 11.9 h = 550.0 km MB = 4.4
			D = 148.73 Az = 348 (NEIS)
			PKHKPV A 1.4s 18.7nm

Day	Phase	h m s	Remarks
31.	eP A	07 56 29.5	Mindanao, Philippine Islands
	ePP A	08 00 28	8.19 N 122.96 E
	LmH B	48.2	H = 07 43 04.0 h = 73.6 km MB = 5.3
	LmV B	48.2	D = 96.91 Az = 323 (NEIS)
			LmH B 16s 0.4/um
			LmV B 16 0.6/um
31.	eP A	12 45 40.5	Dodecanese Islands 36.64 N 28.13 E
	LmH B	53.7	H = 12 41 23.9 h = 19.0 km MB = 4.0
	LmV B	53.7	D = 18.35 Az = 325 (NEIS)
			PV A 1.3s 21.8nm M = 4.2
			LmH B 10 0.4/um 4.0
			LmV B 10 0.4/um 4.2
31.	eP A	19 19 14.5	Ascension Island Region 7.14 S 13.12 W
			H = 19 09 00.3 h = 33 km MB = 4.9 (NEIS)
			D = 61.3
31.	+eP A	23 46 26.5	Alaska Peninsula 58.24 N 155.88 W
			H = 23 35 21.8 h = 128.9 km MB = 4.6
			D = 70.99 Az = 8 (NEIS)
			PV A 1.0s 11.8nm M = 4.7

Day	Phase		h m s	Remarks
1.	eP	A	01 51 20.5	Southern California 34.52 N 116.53 W
	LmV	B	02 30.7	H = 01 38 49.2 h = 6 km MB = 5.1 (NEIS)
	LmH	B	31.0	D = 83.6
				PV A 1.5s 12.6nm M = 4.8
				LmH B 15 1.0/um 5.3
				LmV B 15 1.3/um 5.4
1.	LmV	C	10 20.0	Marianas Region 19.68 N 146.58 E
	LmH	C	23.7	H = 09 16 33 h = 40 km MB = 4.6 (ISC)
				D = 99.7
				LmH C 18s 0.25/um M = 4.8
				LmV C 18 0.3/um 4.8
1.	ePg	A	13 27 23	Northern Italy 45.7 N 10.87 E
	eSn	A	28 06.5	H = 13 25 50 h = 0 km
	eSg	A	28 30	D = 5.02 Az = 5 (ISC)
1.	ePP	A	21 32 54	Tsinghai Province, China 33 N 91 E
				H = 21 20 42 MB = 3.9 (NORSAR)
				D = 58.9
2.	eP	A	03 23 14.5	Dodecanese Islands 36.65 N 26.59 E
	LmH	B	31.6	H = 03 19 07.2 h = 24.6 km MB = 4.3
	LmV	B	32.4	D = 17.64 Az = 327 (NEIS)
				PV A 2.0s 42.8nm M = 4.2
				LmH B 11.5 0.9/um 4.3
				LmV B 12 0.9/um 4.4
2.	ePn	A	19 05 57	Svabian Yura Region, Fed. Rep. of Germany
	ePg	A	06 07	48.33 N 9.04 E
	eSn	A	06 32	H = 19 05 12.5 h = 21.3 (NEIS)
	eiSg	A	06 42.5	D = 2.84
2.	ePKP	A	19 52 37	New Hebrides Islands Region
	e	B	52 45	20.85 S 173.08 E
	LmH	B	20 56.5	H = 19 32 57.7 h = 56 km MB = 5.3 (NEIS)
	LmV	B	56.8	D = 146.9
				PKPV A 3.0s 131.6nm
				LmH B 21 1.1/um
				LmV B 20 1.0/um

Day	Phase		h m s	Remarks
2.	ePKP	A	20 02 24	New Hebrides Islands Region
				20.66 S 173.12 E
				H = 19 42 42.8 h = 33.0 km MB = 4.6
				D = 146.71 Az = 338 (NEIS)
3.	eP	A	00 48 34	Burma 26.59 N 96.99 E
	LmH	C	01 17.0	H = 00 37 40.1 h = 26.6 km MB = 5.2
	LmV	C	19.7	D = 67.09 Az = 316 (NEIS)
				PV A 2.0s 51.3nm M = 5.3
3.	eP	A	01 10 08	Burma 26.39 N 97.07 E
				H = 00 59 11.3 h = 36.8 MB=4.8 MS=4.7
				D = 67.28 Az = 317 (NEIS)
3.	eP	A	03 34 30.5	Burma 26.55 N 97.00 E
	LmH	B	04 02.7	H = 03 23 37.4 h = 32.3 km MB = 5.4
	LmV	B	09.5	D = 67.12 Az = 316 (NEIS)
				PV A 2.4s 124.0nm M = 5.6
				LmH B 20 0.7/um 4.9
3.	eP	A	05 34 39	Philippine Islands Region
	e	A	34 51	10.24 N 126.50 E
	LmV	B	06 28.4	H = 05 21 06.5 h = 33.0 km MB = 5.7
	LmH	B	29.5	D = 97.32 Az = 324 (NEIS)
				PV A 1.3s 24.0nm M = 5.6
				LmH B 19 0.6/um 5.0
				LmV B 18 0.6/um 5.0
3.	+iP	A	14 32 18	Southern Nevada 37.34 N 116.52 W
	ePP	A	35 22	H = 14 20 00.2 h = 0.0 km MB = 5.9
	LmV	B	15 10.4	D = 81.24 Az = 30 (NEIS)
	LmH	B	10.5	Nuclear explosion STILTON (USAEC)
				PV A 1.2s 69.1nm M = 5.6
				LmH B 18 0.25/um 4.6
				LmV B 18 0.5/um 5.0

Day	Phase		h m s	Remarks
3.	+iP	A	14 52 18.5	Southern Nevada 37.10 N 116.04 W
	ePP	A	55 23	H = 14 40 00.1 h = 0.0 km MB=5.7 MS=3.9
				D = 81.25 Az = 31 (NEIS)
				Nuclear explosion MIZZEN (USAEC)
				PV A 1.2s 52.9nm M = 5.4
3.	eP	A	18 21 54	Philippine Islands Region
	ePP	B	25 52	10.15 N 126.38 E
	eSKS	B	32 30	H = 18 08 21.5 h = 33.0 km MB=5.7 MS=5.8
	eS	B	33 22	D = 97.33 Az = 324 (NEIS)
	LmH	B	19 16.6	PV A 2.0s 94.0nm M = 6.0
	LmV	B	16.6	LmH B 17 4.1/um 6.0
				LmV B 18 4.5/um 6.0
3.	eP	A	19 23 53.5	Philippine Islands Region
				10.32 N 126.32 E
				H = 19 10 23.0 h = 44.3 km MB = 5.3
				D = 97.15 Az = 324 (NEIS)
4.	eP1	AB	02 33 27.5	Kashmir-Tibet Border Region
	iP2	AB	33 32	35.87 N 79.85 E
	+iPP	AB	35 27	H = 02 24 32.9 h = 33.0 km MB=5.7 MS=5.8
	eS	B	40 36	D = 50.09 Az = 310 (NEIS)
	eSS	B	44 08	P1V A 1.9s 60.6nm M = 5.3
	LmH	B	53.3	P2V A 1.5 125.6nm 5.7
	LmV	B	57.1	P2V B 8 1.6/um 6.1
				PPV B 8 2.8/um 6.3
				SH B 13.5 2.3/um 5.9
				LmH B 19.5 19.7/um 6.1
				LmV B 16.5 14.7/um 6.1
4.	eP	A	02 46 41	Kashmir-Tibet Border Region
				35.89 N 79.66 E
				H = 02 37 49.7 h = 57.9 MB = 4.8
				D = 49.96 Az = 310 (NEIS)
4.	eP	A	02 59 32	Turkey 40.86 N 31.51 E
				H = 02 55 37.0 h = 68.3 MB = 3.8
				D = 16.94 Az = 312 (NEIS)
				PV A 1.2s 14.2nm M = 4.0

Day	Phase		h m s	Remarks
4.	ePKP	A	04 52 07	Loyalty Islands Region 21.22 S 170.18 E
				H = 04 32 30.8 h = 39.8 MB = 5.3 MS=4.9
				D = 146.14 Az = 335 (NEIS)
				PKPV A 2.0s 42.7nm
4.	ePKHKP	A	05 45 09.5	Fiji Islands Region 21.13 S 178.04 W
	ePKP2	A	45 15.5	H = 05 26 12.5 h = 465.4 MB = 4.9
				D = 149.58 Az = 348 (NEIS)
4.	eP	A	09 29 31	Norwegian Sea 72.6 N 3.4 E
				H = 09 24 30.1 h = 0 km MB = 4.1
				D = 22.36 Az = 166 (ISC)
				PV A 1.4s 14.0nm
4.	eP	A	09 58 11	Kurile Islands 46.71 N 152.39 E
				H = 09 46 17.9 h = 33.0 km MB = 4.6 (NEIS)
				D = 77.2
4.	ePKP2	A	20 36 26.5	South of Fiji 23.61 S 176.9 W
				H = 20 16 45 h = 207 km
				D = 152.61 Az = 341 (ISC)
5.	LmH	B	04 21.3	Near coast of Peru 13.70 S 76.11 W
	LmV	B	23.0	H = 03 32 45.6 h = 61 km MB = 5.5
				D = 99.03 Az = 40 (ISC)
				LmH B 22s 0.7/um
				LmV B 30 1.6/um
5.	eP	A	06 51 55	Northern Sinkiang Prov., China
				42.95 N 83.83 E
				H = 06 43 16.9 h = 33.0 km MB = 4.2
				D = 48.21 Az = 306 (NEIS)
5.	ePKHKP	A	16 12 34.5	Tonga 20.6 S 173.86 W
				H = 15 52 44.3 h = 33 km MB = 4.8
				D = 149.69 Az = 353 (ISC)
				PKHKPV A 1.6s 27.5nm

Day	Phase		h m s	Remarks
5.	eP	A	20 42 47	Peru-Bolivia Border Region
	epP	AB	43 41	16.34 S 69.10 W
	ePP	C	46.7	H = 20 29 36.4 h = 181.6 km MB = 5.6
	iSKS	B	53 08	D = 96.72 Az = 39 (NEIS)
	eS	B	53 50	h = 228 km
	LmH	B	21 18.0	PV A 2.0s 34.2nm M = 5.4
	LmV	B	18.0	LmH B 16 0.5/um
				LmV B 16 0.6/um
5.	eP	A	23 15 08.5	Chinghai Province 33.44 N 95.97 E
				H = 23 04 57.6 h = 75 km MB = 4.6
				D = 61.61 Az = 314 (ISC)
6.	ePKIKP	AB	01 27 12.5	Fiji Islands Region 20.62 S 179.15 W
	iPKHKP	A	27 17.5	H = 01 08 40.8 h = 655.0 km MB = 5.9
	ePKP2	A	27 24	D = 148.86 Az = 347 (NEIS)
	epPKP	B	29 45	PKIKPV A 1.2s 61.0nm
				PKHKPV A 1.2 297.0nm
				PKP2V A 1.0 110.0nm
6.	+iPKP	AB	06 06 22.5	Fiji Islands Region 15.66 S 177.67 W
				H = 05 47 33.3 h = 406.6 km MB = 5.3
				D = 144.31 Az = 350 (NEIS)
				PKPV A 1.2s 73.1nm
6.	LmV	B	06 34.3	New Ireland Region 4.48 S 153.55 E
	LmH	B	36.2	H = 05 18 55.4 h = 60.9 km MB = 5.8
				D = 124.03 Az = 332 (NEIS)
				LmH B 19.5s 0.4/um
				LmV B 20 0.4/um
6.	eP	A	10 59 06.5	Kashmir-Tibet Border Region
				35.25 N 80.76 E
				H = 10 50 05.7 h = 33.0 km MB = 4.8
				D = 51.05 Az = 310 (NEIS)
6.	e	A	13 22 45.5	

Day	Phase		h m s	Remarks
6.	eP	A	14 34 05	Northern Peru 3.97 S 76.91 W
				H = 14 21 6.8 h = 114.2 km MB = 5.3
				D = 92.10 Az = 40 (NEIS)
6.	+eP	AB	16 02 10	Ryukyu Islands Region 23.44 N 126.56 E
	ePP	AB	05 31.5	H = 15 49 24.9 h = 16.2 km MB=5.6 MS=5.8
	eS	B	12 44	D = 86.65 Az = 325 (NEIS)
	eSS	C	18 28	PV A 1.8s 101.0nm M = 5.7
	LmH	B	46.0	LmH B 16 6.5/um 6.1
	LmV	B	46.0	LmV B 16 8.1/um 6.3
7.	eP	AB	08 58 38.5	Near Coast of Northern Californien
	ePP	B	09 01 44	40.57 N 124.14 W
	eS	B	08 50	H = 08 46 22.4 h = 21.3 km MB=5.4 MS=5.7
	ePS	B	09 40	D = 81.25 Az = 27 (NEIS)
	eSS	B	14.0	PV A 1.3s 52.4nm M = 5.4
	LmH	B	34.9	LmH B 20 2.3/um 5.5
	LmV	B	39.6	LmV B 16 1.7/um 5.5
7.	eP	A	11 48 31	North Atlantic Ocean 35.46 N 15.24 W
	LmV	B	55.5	H = 11 43 11.0 h = 33.0 km MB = 4.1
	LmH	B	56.0	D = 24.63 Az = 44 (NEIS)
				LmH, LmV traces
7.	eP	A	15 24 23	Near East Coast of Kamchatka
	epP	A	24 41.5	51.30 N 158.33 E
	LmH	B	16 04.5	H = 15 12 48.2 h = 47.1 km MB = 5.3
	LmV	B	04.8	D = 74.57 Az = 339 (NEIS)
				h = 72 km
				PV A 1.1s 32.2nm M = 5.0
				LmH, LmV traces
7.	eP	A	17 41 03.5	Crete 34.70 N 26.19 E
				H = 17 36 41.0 h = 66.9 km MB = 4.5
				D = 19.15 Az = 331 (NEIS)
8.	iPn	A	02 30 04.3	Northern Italy 46.5 N 13.1 E
	e	A	30 28	H = 02 28 59 (ECIS)
	eSg	A	31 18	D = 4.25

Day	Phase		h m s	Remarks
8.	+iP	A	03 34 47	Eastern Kazakh SSR 49.76 N 78.09 E
	ePn	A	36 18	H = 03 26 57.5 h = 0.0 km MB = 5.5
				D = 41.25 Az = 298 (NEIS)
				Underground explosion M = 6.0 (UPP)
				PV A 0.8s 84.6nm M = 5.5
8.	LmH	B	05 41.0	Near Coast of Central Chile
	LmV	B	41.0	29.84 S 71.52 W
				H = 04 35 16.4 h = 45 km MB = 5.2 (ISC)
				D = 108.3
				LmH B 18s 0.2/um M = 4.8
				LmV B 20 0.4/um 5.0
8.	eP	A	17 26 40	Crete 34.61 N 23.38 E
				H = 17 22 28.5 h = 50.3 km MB = 4.4
				D = 18.18 Az = 335 (NEIS)
8.	ePKP2	A	19 42 46	Kermadec Islands 28 S 179 E
				H = 19 22 39 MB = 3.3 (NORSAR)
				D = 155.2
8.	eP	A	23 29 12	North Atlantic Ocean 35.60 N 17.75 W
	LmH	B	37.1	H = 23 23 37.7 h = 33.0 km MB = 4.4
	LmV	B	39.8	D = 25.97 Az = 45 (NEIS)
				LmH B 16s 0.3/um M = 3.9
9.	LmH	B	04 40.8	Off East Coast of Kamchatka
	LmV	B	44.6	52.35 N 159.93 E
				H = 03 54 28.6 h = 33.0 km MB = 4.5
				D = 73.94 Az = 340 (NEIS)
				LmH B 16s 0.4/um M = 4.8
				LmV B 12 0.25/um 4.7
9.	LmV	B	10 13.2	LmV B 18s 0.4/um
	LmH	B	13.6	LmH B 18 0.3/um
9.	e(P)	A	11 30 45	Northern Celebes 0.91 N 123.74 E
				H = 11 17 15.4 h = 281.8 km MB = 5.1
				D = 103.16 Az = 323 (NEIS)

Day	Phase		h m s	Remarks
9.	eP	A	18 44 42	Afghanistan-USSR Border Region
	ePP	A	46 20	38.84 N 70.31 E
	ePcP	A	46 30.5	H = 18 36 47.6 h = 21.3 km MB = 5.3
	eS	A	51 00	D = 42.27 Az = 306 (NEIS)
	LmH	B	19 05.9	PV A 1.1s 12.1nm M = 4.5
	LmV	B	05.9	LmH B 14 0.7/um 4.7
				LmV B 15 1.0/um 4.9
10.	eP	A	03 43 29	Taiwan Region 22.67 N 122.66 E
	LmH	B	04 25.7	H = 03 30 52.6 h = 18.5 km MB = 5.2
	LmV	B	29.9	D = 85.16 Az = 32.3 (NEIS)
				LmH B 18s 1.0/um M = 5.2
				LmV B 16 0.6/um 5.1
10.	eP	A	06 10 55	Azores Islands Region 40.69 N 29.47 W
	ePP	C	11 40	H = 06 04 48.3 h = 33.0 km MB=5.1 MS=5.3
	eS	B	16 00	D = 30.04 Az = 57 (NEIS)
	LmH	B	21.9	PV A 2.2s 49.1nm M = 4.9
	LmV	B	21.9	LmH B 18 2.5/um 4.9
				LmV B 18.5 3.7/um 5.1
10.	eP	A	06 28 21	Turkey 36.15 N 30.73 E
				H = 06 23 42.2 h = 52.5 km MB = 3.9 (NEIS)
				D = 19.6
				PV A 1.4s 14.0nm M = 4.1
10.	eP	AZ	07 34 44	Azores Islands Region 40.32 N 29.37 W
	LmH	B	45.5	H = 07 28 32.2 h = 33.0 km MB = 4.6
	LmV	B	45.5	D = 30.17 Az = 56 (NEIS)
				PV A 1.3s 17.5nm M = 4.7
				LmH B 20 0.7/um 4.3
				LmV B 17 0.8/um 4.5
10.	eP	A	08 46 58	Turkey 36.15 N 30.66 E
	e	A	47 05	H = 08 42 27.8 h = 63.0 km MB = 4.2
				D = 19.95 Az = 322 (NEIS)

Day	Phase		h m s	Remarks
10.	eP	A	08 58 30	Azores Islands Region 40.48 N 29.48 W
	LmH	B	09 09.3	H = 08 52 19.6 h = normal
	LmV	B	09.4	MB = 4.6 MS = 5.0 (NEIS)
				D = 30.01
				LmH B 20s 1.1/um M = 4.5
				LmV B 18 1.3/um 4.7
10.	-eiPKP	A	09 18 53.5	Fiji Islands Region 17.90 S 178.43 W
				H = 09 00 19.1 h = 583.0 km MB = 5.3 (NEIS)
				D = 145.7
				PKPV A 1.6s 302.2nm
10.	ePKIKP	A	10 31 16	North Island, New Zealand
	ePKHKP	A	31 32	40.25 S 175.81 E
	ePKP2	A	32 13.5	H = 10 11 20.4 h = 52 km MB = 5.6 (NEIS)
				D = 164.8
				PKIKPV A 3.0s 158.0nm
10.	eP	A	12 00 50.5	India-China Border Region
				28.23 N 95.90 E
				H = 11 50 09.1 h = 26.4 km MB = 5.1
				D = 65.24 Az = 316 (NEIS)
				PV A 1.2s 16.3nm M = 5.1
10.	eP	AB	13 59 19.5	Kurile Islands 43.02 N 147.73 E
	Pm1	A	14 00 14	H = 13 47 14.5 h = 15.2 km
	Pm2	B	00 47	MB = 5.8 MS = 7.0 (NEIS)
	eS	B	09 24	D = 79.1
	LmH	B	39.5	PV A 2.2s 65.5nm M = 5.3
	LmV	B	39.9	Pm1V A 2.1 661.2nm 6.3
				Pm2V B 12 11.1/um 6.8
				SH B 14 13.1/um 6.8
				LmH B 16 112.5/um 7.3
				LmV B 17 105.3/um 7.3
10.	eP	A	14 23 20.5	Kurile Islands 43.23 N 147.85 E
				H = 14 11 17.9 h = 33.0 km MB = 5.5
				D = 79.04 Az = 333 (NEIS)
				PV A 1.6s 71.4nm M = 5.4

Day	Phase		h m s	Remarks
10.	eP	A	14 30 38	Off Coast of Hokkaido, Japan
				42.90 N 147.65 E
				H = 14 18 34.9 h = 33.0 km MB = 5.4
				D = 79.26 Az = 333 (NEIS)
				PV A 1.7s 115.0nm M = 5.61
10.	eP	A	14 41 23	Kurile Islands 43.39 N 147.70 E
				H = 14 29 21.4 h = normal MB = 5.0
				D = 78.84 Az = 333 (NEIS)
10.	eP	A	14 49 50.5	Kurile Islands 43.27 N 147.85 E
				H = 14 37 49.9 h = 41.0 km MB = 5.6
				D = 79.00 Az = 333 (NEIS)
				PV A 1.6s 115.0nm M = 5.6
10.	eP1	A	15 01 21	Kurile Islands 43.37 N 147.70 E
	eP2	A	01 41	H = 14 49 18.0 h = 21.2 km MB = 5.2
				D = 78.86 Az = 333 (NEIS)
				P1V A 1.5s 40.2nm M = 5.3
				P2V A 1.8 114.9nm 5.6
10.	+eP	A	15 10 58.5	Kurile Islands 43.31 N 147.41 E
				H = 14 58 55.8 h = 19.2 km MB = 5.8
				D = 78.82 Az = 333 (NEIS)
				PV A 1.4s 209.3nm M = 6.9
10.	+iP	A	15 33 19.5	Kurile Islands 43.35 N 147.28 E
				H = 15 21 19.1 h = 37.6 km MB = 5.7
				D = 78.74 Az = 333 (NEIS)
				PV A 1.4s 139.5nm M = 5.8
10.	e(P)	A	15 42 23	Kurile Islands 45.7 N 148.4 E
				H = 15 30 21 h = 0 km MB = 4.7
				D = 77.01 Az = 333 (ISC)
10.	eP	A	15 47 48	Kurile Islands 43.14 N 147.86 E
				H = 15 35 44.6 h = 33.0 km MB = 4.8
				D = 79.12 Az = 333 (NEIS)

Day	Phase	h m s	Remarks
10.	+eP A	16 03 11	Kurile Islands 43.30 N 147.41 E H = 15 51 09.2 h = 29.1 km MB = 5.3 D = 78.83 Az = 333 (NEIS) PV A 1.4s 69.8nm M = 5.5
10.	eP A	16 26 46.5	Kurile Islands 43.24 N 147.36 E H = 16 14 45.3 h = 33.0 km MB = 5.0 D = 78.87 Az = 333 (NEIS) PV A 1.4s 23.3nm M = 5.0
10.	eP A	16 32 36.5	Kurile Islands 43.90 N 147.69 E H = 16 20 38.3 h = 40 km MB = 5.1 D = 78.38 Az = 333
10.	eP A	16 33 50	Kurile Islands 43.20 N 147.90 E H = 16 21 47.1 h = normal MB = 5.2 D = 79.08 Az = 333 (NEIS) PV A 0.5s 53.8nm M = 5.8
10.	eP A	16 35 57	Kurile Islands Region 43.30 N 148.08 E H = 16 23 54.3 h = normal MB = 5.3 D = 79.05 Az = 333 (NEIS) PV A 0.4s 58.8nm M = 5.8
10.	e A	16 44 10	Peru-Ecuador Border Region 3.62 S 80.92 W H = 16 30 42.2 h = 49.0 km MB = 5.1 D = 94.38 Az = 40 (NEIS)
10.	e(P) A	18 38 31	Kurile Islands 43.15 N 147.74 E H = 18 26 25.6 h = 33.0 km MB = 4.7 D = 79.06 Az = 333 (NEIS)
10.	eP A	19 09 40	Kurile Islands 43.03 N 147.45 E H = 18 57 35.9 h = 19.0 km MB = 5.0 D = 79.08 Az = 333 (NEIS) PV A 1.8s 20.3nm M = 4.9

Day	Phase	h m s	Remarks
10.	eP A	19 18 21	Kurile Islands 43.13 N 147.57 E H = 19 06 19.8 h = 41.0 km MB = 5.0 D = 79.03 Az = 333 (NEIS) PV A 1.4s 23.2nm M = 5.0
10.	eP A	20 44 35	Kurile Islands 43.22 N 147.59 E H = 20 32 32.8 h = normal MB = 4.9 D = 78.96 Az = 333 (NEIS) PV A traces
10.	eP A	20 57 11	Kurile Islands 43.48 N 147.71 E H = 20 45 10.0 h = normal MB = 4.9 D = 78.77 Az = 333 (NEIS)
10.	eP A LmH B LmV B	22 26 19 58.7 23 06.1	Kurile Islands Region 43.22 N 148.14 E H = 22 14 14.1 h = 17.8 km MB = 5.2 D = 79.14 Az = 334 (NEIS) PV A 1.9s 30.3nm M = 5.0 LmH B 20 1.0/um 5.1 LmV B 16. 0.9/um 5.2
10.	e A	23 15 20	Kurile Islands 43.16 N 147.85 E H = 23 03 02.1 h = 16.6 km MB = 4.6 D = 79.10 Az = 333 (NEIS)
10.	eP A	23 49 43.5	Kurile Islands 43.38 N 147.58 E H = 23 37 42.2 h = normal MB = 5.0 D = 78.81 Az = 333 (NEIS) PV A 1.6s 27.5nm M = 5.0
11.	eP A	01 38 13	Off Coast of Hokkaido, Japan 42.73 N 148.03 E H = 01 26 05.4 h = 14.5 km MB = 4.9 D = 79.54 Az = 333 (NEIS) traces
11.	eP A	02 10 20	Kurile Islands 48.6 N 154.5 E H = 01 58 29 h = 0 km MB = 4.8 D = 76.15 Az = 337 (ISC) PV A 1.3s 10.9nm M = 4.7

Day	Phase		h m s	Remarks
11.	eP	A	05 33 18	Kurile Islands 43.13 N 147.64 E
	LmH	B	06 09.4	H = 05 21 15.6 h = 33.0 km MB = 5.1
	LmV	B	09.5	D = 79.06 Az = 333 (NEIS)
				LmH B 14.5s 0.4/um M = 4.9
11.	eP	A	06 44 02	Kurile Islands 43.26 N 147.68 E
	epP	A	44 09.5	H = 06 31 56.8 h = 33.0 km MB = 4.9 (NEIS)
				D = 79.0 h = 30 km
				PV A 1.1s 8.1nm M = 4.6
11.	eP	A	10 55 09	North Atlantic Ocean 35.6 N 17.79 W
	LmH	B	11 03.1	H = 10 49 34.1 h = 33.0 km MB = 4.7
	LmV	B	05.8	D = 26.02 Az = 45 (NEIS)
				LmH B 16s 0.3/um M = 4.0
				LmV B 15 0.4/um 4.2
11.	eP	A	14 32 15	Kurile Islands 43.45 N 147.81 E
	e	A	32 41.5	H = 14 20 09.6 h = 14.9 km MB = 5.1
	LmH	B	15 11.9	D = 78.82 Az = 333 (NEIS)
	LmV	B	11.9	LmH B 14s 0.8/um M = 5.2
				LmV B 16 0.5/um 5.0
11.	eP	A	15 44 38	Kurile Islands 43.44 N 147.71 E
	LmH	B	16 19.6	H = 15 32 36.2 h = 28.3 km MB = 4.9
	LmV	B	24.7	D = 78.80 Az = 333 (NEIS)
				LmH B 16s 0.7/um M = 5.1
				LmV B 16 0.25/um 4.7
11.	eP	A	17 04 57.5	Kurile Islands 43.31 N 147.74 E
	epP	A	05 10	H = 16 52 54.2 h = 23.6 km MB = 5.1
				D = 78.93 Az = 333 (NEIS)
				h = 46 km
				PV A 1.4s 14.0nm M = 4.8
11.	eP	A	17 09 32	Kurile Islands 43.12 N 147.54 E
				H = 16 57 28.2 h = 22.5 km MB = 5.0
				D = 79.03 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	17 55 44	Kurile Islands 43.36 N 147.75 E
				H = 17 43 41.9 h = 27.9 km MB = 5.0
				D = 78.88 Az = 333 (NEIS)
				PV A 1.3s 19.7nm M = 5.0
11.	e	A	18 14 37	Kurile Islands 43.23 N 147.87 E
				H = 18 02 20.0 h = 33 km MB = 4.3
				D = 79.04 Az = 333 (ISC)
11.	eP	A	18 43 44.5	South of Honshu, Japan 29.39 N 142.09 E
	LmH	B	19 24.9	H = 18 31 46.8 h = 16 km MB = 5.3 (NEIS)
	LmV	B	28.3	D = 89.1
				LmH B 17.5s 1.2/um M = 5.4
				LmV B 17 0.8/um 5.2
12.	+eP	A	00 26 20	Kurile Islands 46.69 N 152.60 E
				H = 00 14 30.2 h = 59.9 km MB = 5.3
				D = 77.36 Az = 336 (NEIS)
				PV A 1.0s 47.2nm M = 5.4
12.	eP	A	01 19 54	Kurile Islands Region 43.42 N 148.02 E
	epP	A	20 06	H = 01 07 51.2 h = 27.1 km MB = 4.9
	LmH	B	52.8	D = 78.92 Az = 333 (NEIS)
	LmV	B	59.7	h = 48 km
				pPV A 1.3s 21.8nm
				LmH B 20 1.3/um M = 5.3
				LmV B 16 1.3/um 5.4
12.	eP	A	02 01 16	Kurile Islands 43.08 N 147.29 E
				H = 01 49 12.1 h = 12.1 km MB = 5.1
				D = 78.98 Az = 333 (NEIS)
12.	eP	A	03 57 52	Kurile Islands Region 43.32 N 148.03 E
				H = 03 45 50.0 h = 33.0 km MB = 4.3
				D = 79.02 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
12.	+eP	A	04 46 05.5	Kurile Islands 43.29 N 147.79 E
	e	A	46 19	H = 04 34 03.0 h = 26.7 km MB = 5.2
	e	A	46 32.5	D = 78.96 Az = 333 (NEIS)
	LmH	B	05 18.6	PV A 2.0s 25.6nm M = 4.9
	LmV	B	25.7	LmH B 20 1.2/um 5.2
				LmV B 16 0.8/um 5.2
12.	eP	A	08 25 57.5	Kurile Islands 43.35 N 147.40 E
	LmH	B	09 05.5	H = 08 13 57.7 h = 42.9 km MB = 5.0
	LmV	B	05.7	D = 78.78 Az = 333 (NEIS)
				PV A 1.3s 13.1nm M = 4.7
				LmH B 15 0.2/um 4.5
				LmV B 16 0.25/um 4.7
12.	eP	A	13 27 23	Kurile Islands 43.08 N 147.34 E
	LmH	B	14 02.7	H = 13 15 17.4 h = 18.4 km MB = 5.0
	LmV	B	07.5	D = 78.99 Az = 333 (NEIS)
				PV A 1.6s 13.7nm M = 4.7
				LmH B 16.5 0.5/um 4.9
				LmV B 16 0.2/um 4.7
12.	eP	A	14 15 44	Southern Iran 27.30 N 55.83 E
				H = 14 08 06.2 h = 44.5 km MB = 4.4
				D = 40.72 Az = 317 (NEIS)
12.	eP	A	14 43 16.5	Kurile Islands 43.10 N 147.24 E
	LmH	B	15 15.7	H = 14 31 14.0 h = 33.0 km MB = 5.0
	LmV	B	23.1	D = 78.95 Az = 333 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
				LmH B 22 0.55/um 4.8
				LmV B 16 0.3/um 4.8
12.	eP	A	14 49 14	Off Coast of Hokkaido, Japan
				42.84 N 147.79 E
				H = 14 37 09.6 h = 33.0 km MB = 4.9
				D = 79.36 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
12.	eP	A	15 10 40.5	Kurile Islands 43.40 N 147.69 E
				H = 14 58 40.1 h = 41.9 km MB = 5.0
				D = 78.83 Az = 333 (NEIS)
				PV A 1.6s 11.0nm M = 4.6
12.	eP	A	15 35 38.5	Kurile Islands 43.24 N 147.21 E
				H = 15 23 35.3 h = 33.3 km MB = 4.8
				D = 78.82 Az = 333 (NEIS)
				PV A traces
12.	eP	A	19 30 16	Sicily 37.45 N 14.44 E
	e	A	30 27	H = 19 27 06.5 h = 30.4 km MB = 4.5
	LmH	B	36.0	D = 13.34 Az = 352 (NEIS)
	LmV	B	36.0	PV A 1.4s 14.0nm M = 4.7
12.	eP	A	20 26 35	Kurile Islands Region 43.41 N 147.99 E
				H = 20 14 31.4 h = 26.3 km MB = 4.6
				D = 78.92 Az = 333 (NEIS)
12.	eP	A	21 49 07	Kurile Islands Region 43.14 N 148.04 E
				H = 21 37 01.5 h = 16.7 km MB = 5.0
				D = 79.18 Az = 333 (NEIS)
12.	eP	AB	23 33 07	Kurile Islands 43.11 N 147.71 E
	epP	A	33 17	H = 23 21 04.3 h = normal MB = 5.1
	esP	A	33 20.5	D = 79.09 Az = 333 (NEIS)
	eS	B	43 06	h = 37 km
	LmH	B	24 12.9	PV A 1.8s 47.3nm M = 5.2
	LmV	B	13.1	LmH B 15 1.6/um 5.5
				LmV B 16 1.5/um 5.5
13.	eP	AB	06 21 56	Samar, Philippine Islands
	ePP	AC	25 44	12.27 N 125.38 E
	eSKS	C	32 25	H = 06 08 35.4 h = 36.3 km MB=5.6 MS=5.8
	eS	C	33 08	D = 95.05 Az = 324 (NEIS)
	e	C	34 40	PV A 1.8s 74.4nm M = 5.8
	eSS	C	39 40	LmH B 16.5 3.8/um 5.9
	LmV	B	07 10.4	LmV B 16.5 4.4/um 6.0
	LmH	B	10.5	

Day	Phase		h m s	Remarks
13.	eP	A	10 20 26	Southern Iran 27.02 N 54.94 E H = 10 12 49.8 h = 58.1 km MB = 4.9 D = 40.39 Az = 318 (NEIS)
13.	ePn	A	12 05 05	Federal Republic of Germany 50°25' N 7°51' E H = 12 04 21.5 (BCIS) D = 2.45
	eSn	A	05 26	
13.	eP	A	13 09 06.5	Kurile Islands 43.19 N 147.24 E H = 12 57 06.2 h = 42.2 km MB = 5.0 (NEIS) D = 78.9 h = 42 km PV A 1.5s 32.7nm M = 5.1 LmH B 16 0.55/um 5.0 LmV B 16 0.7/um 5.1
	epP	A	09 17	
	LmH	B	49.2	
	LmV	B	48.8	
13.	eP	A	13 22 53	Kurile Islands 43.04 N 147.36 E H = 13 10 50.5 h = 33.0 km MB = 4.8 (NEIS) D = 79.0 h = 40 km
	epP	A	23 04	
13.	+iP	AB	18 20 14.8	Kurile Islands 43.49 N 147.71 E H = 18 08 11.7 h = 18.6 km MB=6.1 MS=6.4 D = 78.76 Az = 333 (NEIS) PV A 2.0s 846.0nm M = 6.4 PV B 11 8.2/um 6.7 PV C 14 10.4/um 6.7 SH B 15 10.6/um 6.7 P'P' A 1.5 15.1nm LmH B 20 117.0/um 7.2 LmV B 16 94.0/um 7.3
	ePP	B	23 12	
	-iS	BN	30 09	
	+iS	BE	30 09	
	eP'P'	A	47 30.5	
	LmH	B	52.7	
	LmV	B	59.9	
13.	eP	A	18 30 49	Kurile Islands 43.97 N 147.39 E H = 18 18 51.0 h = 33.0 km MB = 5.3 D = 78.22 Az = 333 (NEIS)
13.	eP	A	18 37 19.5	Kurile Islands 43.10 N 147.78 E H = 18 25 13.6 h = 13.9 km MB = 4.8 D = 79.13 Az = 333 (NEIS) PV A 1.2s 10.2nm M = 4.7

Day	Phase		h m s	Remarks
13.	eP	A	19 26 13	Kurile Islands Region 43.10 N 148.03 E H = 19 14 07.3 h = 11.0 km MB = 4.8 D = 79.21 Az = 333 (NEIS)
	e	A	27 12	
13.	eP	A	19 52 28	Kurile Islands 43.49 N 147.73 E H = 19 40 25.6 h = 17.2 km MB = 5.2 D = 78.76 Az = 333 (NEIS) h = 40 km PV A 2.0s 42.8nm M = 5.1
	epP	A	52 39	
13.	eP	A	20 04 37.5	Kurile Islands 43.47 N 147.82 E H = 19 52 36.0 h = 29.0 km MB = 5.2 D = 78.81 Az = 333 (NEIS) PV A 1.0s 23.6nm M = 5.2
13.	eP	A	20 13 00	Kurile Islands 43.49 N 147.91 E H = 20 00 57.3 h = 33.0 km MB = 4.7 D = 78.82 Az = 333 (NEIS)
13.	eP	A	20 30 26	Kurile Islands 43.35 N 147.67 E H = 20 18 22.9 h = 21.6 km MB = 5.0 D = 78.87 Az = 333 (NEIS) h = 47 km PV A 1.5s 25.2nm M = 5.0
	epP	A	30 39	
13.	eP	A	20 32 57.5	Kurile Islands 43.41 N 147.59 E H = 20 20 57.7 h = 38.9 km MB = 5.1 D = 78.79 Az = 333 (NEIS) h = 46 km PV A 1.4s 21.8nm M = 5.0
	epP	A	33 10	
13.	e(P)	A	21 31 29.5	Off Coast of Hokkaido 42.76 N 147.1 E H = 21 19 21.7 h = 0 km D = 79.21 Az = 333 (ISC)
13.	eP	A	24 09 43	Kurile Islands Region 43.46 N 147.97 E H = 23 57 41.8 h = 33.0 km MB = 4.7 D = 78.87 Az = 333 (NEIS) h = 47 km
	epP	A	09 56	

Day	Phase		h m s	Remarks
14.	eP	A	00 12 07.5	Kurile Islands 43.66 N 147.85 E
	e	A	12 19	H = 00 00 05.4 h = 21.3 MB = 5.0
	LmH	B	51.8	D = 78.65 Az = 333 (NEIS)
	LmV	B	51.8	PV A 1.3s 19.7nm M = 5.0
				LmH B 15 0.8/um 5.2
				LmV B 16 0.9/um 5.3
14.	e(pP)	A	00 16 30	Kurile Islands Region 43.33 N 148.1 E
				H = 00 04 16 h = 37 km MB = 4.7
				D = 79.03 Az = 333 (ISC)
14.	eP	A	01 59 52	Kurile Islands 43.35 N 147.88 E
				H = 01 47 49.3 h = 21.1 km MB = 5.2
				D = 78.94 Az = 333 (NEIS)
				PV A 1.8s 40.6nm M = 5.2
14.	eP	A	02 08 33.5	Kurile Islands 43.37 N 147.74 E
				H = 01 56 30.0 h = 15.0 km MB = 5.0
				D = 78.87 Az = 333 (NEIS)
				PV A 1.2s 40.5nm M = 5.3
14.	eP	A	02 26 35	Off Coast of Hokkaido, Japan
	LmH	B	03 19.2	42.75 N 148.01 E
	LmV	B	21.0	H = 02 14 26.4 h = 08.5 km MB = 5.1
				D = 79.52 Az = 333 (NEIS)
				PV A 1.9s 15.8nm M = 5.1
				LmH B 17 1.8/um 5.5
				LmV B 16 2.4/um 5.7
14.	eP	A	03 11 21.5	Kurile Islands 43.42 N 147.69 E
	LmH	B	50.0	H = 02 59 20.7 h = 34.0 km MB = 5.3
	LmV	B	50.1	D = 78.82 Az = 333 (NEIS)
				PV A 1.2s 32.5nm M = 5.2
				LmH B 14 3.1/um 5.8
				LmV B 16 1.6/um 5.6
14.	eP	A	03 13 24	Kurile Islands 43.81 N 147.90 E
	e	A	13 49	H = 03 01 24.9 h = 33.0 km MB = 5.2
				D = 78.53 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
14.	eP	A	04 04 24	Off Coast of Hokkaido, Japan
				42.49 N 148.01 E
				H = 03 52 18.2 h = 33.0 km MB = 4.8
				D = 79.75 Az = 333 (NEIS)
				PV A 1.6s 33.0nm M = 5.1
14.	eP	A	04 19 12	Kurile Islands 43.50 N 147.93 E
	epP	A	19 24	H = 04 07 10.5 h = 25.8 km MB = 4.9
				D = 78.82 Az = 333 (NEIS)
				h = 44 km
14.	ePKHKP	A	04 25 05	Tonga Islands 20.66 S 173.99 W
	ePKP2	A	25 15.5	H = 04 05 16.8 h = 33.0 km MB = 5.1
				D = 149.75 Az = 353 (NEIS)
				PKHKPV A 1.6s 49.5nm
14.	ePKIKP	A	04 32 21	Kermadec Islands 30.18 S 178.00 W
	ePKP2	A	32 55.5	H = 04 12 28.9 h = 46.3 km MB = 5.6
				D = 158.32 Az = 343 (NEIS)
				PKIKPV A 2.5s 46.1nm
				PKP2V A 1.1 36.3nm
14.	+iP	A	04 47 44	Kurile Islands 43.35 N 147.64 E
	epP	A	47 56.5	H = 04 35 40.8 h = 17.1 km MB = 5.3
				D = 78.86 Az = 333 (NEIS)
				h = 46 km
				PV A 1.3s 43.7nm M = 5.3
14.	eP	A	04 53 38	Kurile Islands 43.34 N 147.80 E
				H = 04 41 37.1 h = 33.0 km MB = 4.7
				D = 78.92 Az = 333 (NEIS)
14.	eP	A	04 55 02	Kurile Islands 43.47 N 147.86 E
	epP	A	55 14	H = 04 43 01.3 h = normal MB = 5.0
				D = 78.82 Az = 333 (NEIS)
				h = 44 km
				PV A 1.0s 9.9nm M = 4.8

Day	Phase		h m s	Remarks
14.	eP	A	05 15 04	Kurile Islands 43.43 N 147.81 E
				H = 05 02 58.7 h = 11.2 km MB = 5.1
				D = 78.84 Az = 333 (NEIS)
				PV A 1.0s 15.7nm M = 5.0
14.	eP	A	06 28 45	Kurile Islands 43.52 N 147.59 E
	epP	A	28 58	H = 06 16 44.8 h = 34.6 km MB = 4.9
				D = 78.69 Az = 333 (NEIS)
14.	eP	A	08 03 26	Kurile Islands 43.42 N 147.32 E
				H = 07 51 24.9 h = normal MB = 4.5
				D = 78.69 Az = 333 (NEIS)
14.	eP	AB	08 55 15	Kurile Islands 43.43 N 147.53 E
	e	A	55 27.5	H = 08 43 11.8 h = 10.6 km MB=5.1 MS=4.9
	eS	C	09 05 10	D = 78.75 Az = 333 (NEIS)
	LmH	B	27.6	PV A 1.4s 34.9nm M = 5.2
	LmV	B	34.7	LmH B 21 2.2/um 5.5
				LmV B 16 1.5/um 5.5
14.	eP	A	09 14 18	Kurile Islands 43.34 N 147.65 E
	epP	A	14 30	H = 09 02 14.6 h = 17.2 km MB = 5.1
				D = 78.87 Az = 333 (NEIS)
				h = 44 km
				PV A 1.2s 28.5nm M = 5.2
14.	eP	A	10 57 02.5	Kurile Islands 43.32 N 147.56 E
	epP	A	57 15	H = 10 45 01.4 h = 32.2 km MB = 5.0
	LmH	B	29.2	D = 78.86 Az = 333 (NEIS)
	LmV	B	36.5	h = 46 km
				PV A 1.4s 23.3nm M = 5.0
				LmH B 22 1.5/um 5.3
				LmV B 17 0.7/um 5.1
14.	eX	A	11 09 57.5	XV A 1.6s 19.2nm
14.	eP	A	17 23 17	Kurile Islands 43.40 N 147.47 E
	epP	A	23 30	H = 17 11 16.2 h = 34 km MB = 5.4 (NEIS)
				D = 78.9 h = 47 km
				PV A 1.3s 61.1nm M = 5.5

Day	Phase		h m s	Remarks
14.	eP	A	17 49 15	Kurile Islands 43.03 N 147.63 E
	epP	A	49 24.5	H = 17 37 11.3 h = 33.0 km MB = 5.2
	LmV	B	29.1	D = 79.15 Az = 333 (NEIS)
	LmH	B	29.7	h = 35 km
				PV A 1.8s 54.0nm M = 5.2
				LmH B 14 2.7/um 5.7
				LmV B 16 3.2/um 5.8
14.	eP	A	17 53 42.5	Kurile Islands 43.42 N 147.30 E
				H = 17 41 41.5 h = 33.0 km MB = 4.9
				D = 78.68 Az = 333 (NEIS)
14.	+eP	AB	18 50 02	Kurile Islands 43.55 N 147.89 E
	ePP	C	53 00	H = 18 38 01.1 h = 30.8 km MB=5.7 MS=6.0
	eS	B	59 58	D = 78.76 Az = 333 (NEIS)
	eSS	C	19 05 12	PV A 1.2s 171.0nm M = 5.9
	LmH	C	22.0	PV B 10 3.1/um 6.3
	LmV	C	29.5	SH B 11.5 3.3/um 6.4
				LmH C 22 43.3/um 6.7
				LmV C 17.5 39.0/um 6.8
14.	eP	A	19 01 40.5	Kurile Islands Region 43.56 N 147.97 E
				H = 18 49 40.2 h = 37.9 km MB = 5.3
				D = 78.78 Az = 333 (NEIS)
				PV A 2.0s 85.5nm M = 5.4
14.	eP	A	19 04 07	Kurile Islands 43.6 N 148.1 E
	e	A	04 20	H = 18 52 33 h = 266 km MB = 4.9
				D = 78.78 Az = 333 (ISC)
14.	eP	A	19 06 37	Near East Coast of Honshu, Japan
				40.16 N 142.50 E
				H = 18 54 33.3 h = 48.7 km MB = 5.2
				D = 79.87 Az = 331 (NEIS)
				PV A 1,5s 25.1nm M = 5.0

Day	Phase		h m s	Remarks
14.	eP	A	19 13 08	Kurile Islands 44.20 N 147.53 E
				H = 19 01 11.4 h = 33.0 km MB = 4.6
				D = 78.06 Az = 333 (NEIS)
				PV A traces
14.	ePP	A	19 26 04.5	Ceram 2.96 S 127.40 E
	epPP	A	26 16.5	H = 19 11 20.6 h = 41.7 km MB = 5.4
				D = 108.43 Az = 323 (NEIS)
				PPV A 1.2s 36.6nm M = 5.9
14.	eP	A	20 43 36	Kurile Islands 43.41 N 147.95 E
				H = 20 31 33.6 h = 24.5 km MB = 5.0
				D = 78.91 Az = 333 (NEIS)
14.	eP	A	20 47 24	Kurile Islands Region 43.46 N 148.01 E
	epP	A	47 35.5	H = 20 35 20.4 h = 13.4 km MB = 5.1
				D = 78.88 Az = 333 (NEIS)
				h = 42 km
				PV A 1.2s 20.3nm M = 5.0
14.	eP	A	20 59 57	Beaufort Sea 71.91 N 132.94 W
				H = 20 50 25.7 h = 33.0 km MB = 5.3
				D = 55.21 Az = 27 (NEIS)
				PV A 1.3s 15.3nm M = 4.9
14.	eP	A	22 26 03	Kurile Islands Region 43.33 N 148.14 E
	epP	A	26 16	H = 22 13 59.3 h = 24.8 km MB = 4.8
				D = 79.04 Az = 334 (NEIS)
				h = 47 km
14.	-eP	AB	23 48 56	Off East Coast of Honshu, Japan
	ePP	B	52 10	36.28 N 143.43 E
	eS	B	59 17	H = 23 36 27.7 h = 19.2 km MB=6.1 MS=5.9
	eSS	C	24 05.0	D = 83.61 Az = 331 (NEIS)
	LmH	B	24.0	PV A 2.0s 427.0nm M = 6.3
	LmV	B	27.6	PV B 12 1.3/um 6.0
				LmH B 18 15.2/um 6.4
				LmV B 16 5.1/um 6.0

Day	Phase		h m s	Remarks
15.	+eP	AB	00 31 33	Kurile Islands 43.67 N 147.80 E
	eS	B	41 28	H = 00 19 34.0 h = 37.8 km MB=6.1 MS=6.2
	LmH	B	01 11.2	D = 78.63 Az = 333 (NEIS)
	LmV	B	11.2	PV A 1.8s 784.0nm M = 6.4
				LmH B 16 63.5/um 7.1
				LmV B 16.5 77.7/um 7.2
15.	+iP	A	00 34 39	Kurile Islands 43.97 N 147.01 E
				H = 00 22 40.6 h = 33.0 km MB = 5.7
				D = 78.10 Az = 333 (NEIS)
				PV A 1.0s 37.4nm
15.	eP	A	01 15 34.5	Kurile Islands 43.85 N 147.80 E
				H = 01 03 34.4 h = 33.0 km MB = 4.8
				D = 78.46 Az = 333 (NEIS)
15.	-eP	A	02 21 17	Off Coast of Hokkaido, Japan
	e	A	21 25	42.62 N 148.05 E
				H = 02 09 08.7 h = 10.0 km MB = 5.6
				D = 79.64 Az = 334 (NEIS)
				PV A 2.1s 153.0nm M = 5.6
15.	eP	A	02 28 08.5	Kurile Islands Region 43.70 N 148.04 E
				H = 02 16 06.2 h = 33.0 km MB = 4.8 (NEIS)
				D = 79.0
15.	eP	A	04 56 47	West Caroline Islands 11.89 N 141.41 E
	ePP	A	05 01 07	H = 04 42 50.2 h = 60.9 km MB = 5.5
	LmH	B	39.9	D = 103.94 Az = 330 (NEIS)
	LmV	B	47.6	PPV A 1.4s 18.6nm M = 5.5
				LmH B 18.5 3.4/um
				LmV B 20 3.5/um
15.	eP	A	06 14 30	Kurile Islands 43.57 N 147.79 E
	epP	A	14 40.5	H = 06 02 29.0 h = 29.3 km MB = 4.9
				D = 78.71 Az = 333 (NEIS)
				h = 38 km
				PV A 1.4s 23.3nm M = 5.0

Day	Phase		h m s	Remarks
15.	ePKP	A	06 43 36	New Hebrides Islands 18.75 S 169.15 E H = 06 24 29.9 h = 231 km MB = 4.8 (NEIS) D = 143.9
15.	eP	A	07 27 41.5	Kurile Islands 43.58 N 147.88 E H = 07 15 38.1 h = 11.7 km MB = 5.1 D = 78.73 Az = 333 (NEIS) PV A 1.2s 14.2nm M = 4.9
15.	eP	A	08 05 46	Rat Islands, Aleutian Is. 51.58 N 179.59 E H = 07 53 57.0 h = 79.6 km MB = 5.1 D = 77.64 Az = 352 (NEIS)
15.	eP	A	08 59 14	Kurile Islands Region 43.66 N 147.99 E H = 08 47 12.6 h = 24.6 km MB = 5.0 D = 78.69 Az = 333 (NEIS) PV A 1.3s 10.9nm M = 4.7 LmH B 19 0.8/um 5.1 LmV B 16 0.6/um 5.0
	e	A	59 26	
	e	A	59 34.5	
	LmH	B	09 32.0	
	LmV	B	38.9	
15.	eP	A	10 09 10	Kurile Islands Region 42.99 N 148.07 E H = 09 57 04.4 h = 33.0 km MB = 4.9 D = 79.32 Az = 333 (NEIS)
15.	eP	A	10 58 41	Kurile Islands 43.96 N 147.87 E H = 10 46 40.1 h = 22 km MB = 4.9 (NEIS) D = 78.4 h = 42 km PV A 1.2s 14.2nm M = 4.9 LmH B 20 0.5/um 4.9 LmV B 16 0.4/um 4.9
	epP	A	58 52.5	
	LmH	B	11 31.8	
	LmV	B	38.3	
15.	eP	A	18 13 59.5	Near East Coast of Honshu, Japan 40.18 N 142.31 E H = 18 01 55.7 h = 55.6 km MB = 4.9 D = 79.78 Az = 331 (NEIS) PV A traces

Day	Phase		h m s	Remarks
15.	eP	A	23 20 48.5	Kurile Islands Region 43.89 N 148.09 E H = 23 08 48.9 h = 34.7 km MB = 5.0 D = 78.52 Az = 333 (NEIS) h = 46 km PV A 1.2s 12.2nm M = 4.8
	epP	A	21 01	
15.	eP	A	23 42 48	Kurile Islands Region 43.75 N 148.16 E H = 23 30 45.3 h = 15.0 km MB = 5.2 D = 78.68 Az = 333 (NEIS) PV A 1.1s 24.2nm M = 5.2 LmH B 20 0.5/um 4.9 LmV B 14.5 0.4/um 5.0
	epP	A	43 01	
	LmH	B	24 15.5	
	LmV	B	22.5	
16.	ePKP	A	00 49 30.5	Tonga Islands 16.45 S 174.45 W H = 00 30 10.3 h = 161.2 km MB = 5.4 D = 145.54 Az = 353 (NEIS) PV A 1.6s 68.6nm
16.	eP	A	22 51 22.5	Kurile Islands 43.30 N 147.79 E H = 22 39 21.5 h = 33.8 km MB = 5.2 D = 78.96 Az = 333 (NEIS)
16.	ePKIKP	A	22 54 15	Bismarck Sea 3.04 S 147.82 E H = 22 35 23.2 h = 33.0 km MB=6.1 MS=6.5 D = 119.97 Az = 329 (NEIS) PPV B 12s 1.08/um M = 6.4 LmH B 21 16.0/um 6.6 LmV B 21.5 16.5/um 6.6
	ePP	AB	55 37	
	eSKKS	BC	23 02 44	
	ePS	B	05 16	
	ePPS	B	07 08	
	eSS	B	12 10	
	LmH	B	46.6	
	LmV	B	46.9	
16.	ePn	A	23 42 56	Northern Italy 45.70 N 10.49 E H = 23 41 40.9 h = 33.0 km D = 5.01 Az = 8 (NEIS)
	ePg	A	43 17	
	eSn	A	43 53.5	
	eSg	A	44 23	
17.	iPn	A	07 07 10.0	Austria 47.19 N 11.08 E H = 07 06 19.5 h = 47.5 km MB = 3.6 D = 3.48 Az = 6 (NEIS)
	ePg	A	07 24	
	eSn	A	07 50	
	eSg	A	08 09	

Day	Phase		h m s	Remarks
17.	eP	A	21 41 40	Near East Coast of Honshu, Japan
				40.15 N 142.33 E
				H = 21 29 36.5 h = 57.0 km MB = 4.9
				D = 79.81 Az = 331 (NEIS)
17.	ePKHKP	A	22 24 27	Fiji Region 20.3 S 178.1 W
				H = 22 05 39 h = 527 km MB = 4.0
				D = 148.80 Az = 348 (ISC)
18.	eP	A	02 41 36	Iran 32.19 N 60.00 E
				H = 02 34 00.0 h = 14.7 km MB = 4.5
				D = 39.88 Az = 312 (NEIS)
18.	eP	A	04 23 52	Mindoro, Philippine Islands
	ePP	A	27 28	13.94 N 120.65 E
				H = 04 11 02.3 h = 133.9 km MB = 5.4
				D = 90.97 Az = 323 (NEIS)
				PV A 1.5s 45.2nm M = 5.4
18.	eP	A	05 56 08	Off East Coast of Honshu, Japan
	ePP	A	59 06	40.91 N 143.03 E
	LmV	B	06 34.9	H = 05 44 05.9 h = 50.0 km MB=5.2 MS=5.0
	LmH	B	35.0	D = 79.41 Az = 331 (NEIS)
				PV A 1.6s 44.0nm M = 5.1
				PPV A 1.5 20.1nm 5.1
				LmH B 17 2.4/um 5.6
				LmV B 17 2.6/um 5.7
18.	+eP	A	08 42 05	Kodiak Island Region 56.50 N 152.44 W
	epP	A	42 10.5	H = 08 30 37.8 h = 13.1 km MB=4.8 MS=4.0
				D = 72.41 Az = 11 (NEIS)
				h = 21. km
				PV A 1.0s 13.8nm M = 5.0
18.	eSg	A	09 20 44	Austria 47.1 N 10.5 E
				H = 09 19 45 (ECIS)
				D = 3.6

Day	Phase		h m s	Remarks
18.	eP	A	09 29 34.5	South of Honshu, Japan
				31.33 N 140.90 E
				H = 09 16 54.3 h = 53.0 km MB = 5.4
				D = 86.90 Az = 330 (NEIS)
				PV A 1.3s 17.5nm M = 5.1
18.	ePKP	A	12 31 42	Fiji Islands Region 17.49 S 178.31 W
	LmH	B	13 37.3	H = 12 13 04.4 h = 562.0 km MB = 5.2
	LmV	B	40.5	D = 145.98 Az = 349 (NEIS)
				PV A 1.4s 27.9nm
				LmH B 18 0.5/um
				LmV B 17 0.5/um
18.	eP	A	13 47 05	Off Coast of Hokkaido, Japan
				42.84 N 147.60 E
				H = 13 35 03.1 h = 47.0 km MB=5.0 MS=4.5
				D = 79.30 Az = 333 (NEIS)
18.	eP	A	14 12 31	North Atlantic Ocean 35.12 N 17.47 W
	LmH	B	21.2	H = 14 06 59.5 h = 38.5 km MB = 4.5
	LmV	B	23.5	D = 26.13 Az = 45 (NEIS)
				LmH B 16s 0.4/um M = 4.0
				LmV B 16 0.4/um 4.1
18.	ePn	A	15 39 36	Austria 46.43 N 13.69 E
	ePg	A	39 54.5	H = 15 38 27.5 h = 33.0 km
	eSn	A	40 26	D = 4.44 Az = 343 (NEIS)
	eSg	A	40 53	
18.	ePKIKP1	A	16 51 21	New Hebrides Islands 13.73 S 167.19 E
	ePKIKP2	AB	51 30.5	H = 16 32 29.1 h = 201.0 km MB = 5.5
	ePP2	B	54 22	D = 138.18 Az = 337 (NEIS)
	eSKP2	B	54 48	PKIKP1V A traces
	LmH	C	17 41.0	PKIKP2V A 1.5s 80.4 nm
	LmV	C	51.6	LmH C 40 0.45/um
				LmV C 22 0.45/um

Day	Phase		h m s	Remarks
18.	eP	A	19 27 05	Kodiak Island Region 56.87 N 151.85 W
	e	A	27 09.5	H = 19 15 41.4 h = 30.0 km MB = 4.5
				D = 71.98 Az = 11 (NEIS)
19.	eP	A	05 20 50	Kurile Islands 43.48 N 147.73 E
				H = 05 08 50.1 h = 43.3 km MB = 4.5
				D = 78.77 Az = 333 (NEIS)
				PV A traces
19.	eP	A	08 39 09	Kurile Islands 43.30 N 147.81 E
	e	A	39 23	H = 08 27 08.0 h = 37.1 km MB = 4.8
				D = 78.96 Az = 333 (NEIS)
19.	eP	A	09 04 15.5	Kurile Islands 43.41 N 147.67 E
	epP	A	04 28	H = 08 52 14.9 h = 35.3 km MB = 5.1
				D = 78.81 Az = 333 (NEIS)
				h = 46 km
19.	ePKHKP	A	09 10 27	Tonga Islands 21.39 S 174.22 W
	ePKP2	A	10 34	H = 08 50 38.0 h = 33.0 km MB = 5.0
				D = 150.45 Az = 352 (NEIS)
19.	ePn	A	10 13 28	Southern Italy 41.70 N 15.77 E
	ePg	A	14 21.5	H = 10 11 13.6 h = 15.7 km MB = 5.1
	eSn	A	15 07	D = 9.40 Az = 344 (NEIS)
	LmH	B	16.8	PV A 1.3s 52.4nm M = 5.7
	LmV	B	17.7	LmH B 11 7.6/um 4.8
				LmV B 11 2.9/um
19.	LmH	B	10 44.7	LmH B 17s 1.1/um
	LmV	B	44.8	LmV B 17 1.4/um
19.	+eP	AB	13 12 17	Southern Nevada 37.35 N 116.32 W
	+ePP	A	15 22	H = 13 00 01.0 h = 0.0 km MB = 6.1
	LmH	B	50.2	D = 81.15 Az = 31 (NEIS)
	LmV	B	50.4	Nuclear explosion MAST (USAEC)
				PV A 1.3s 100.4nm M = 5.7
				PPV A 1.4 44.2nm 5.5
				LmH B 17 0.5/um 4.9
				LmV B 16 0.6/um 5.1

Day	Phase		h m s	Remarks
19.	eP	A	16 25 16	El Salvador 13.37 N 89.34 W
	LmH	B	17 02.1	H = 16 12 42.2 h = 92.8 km MB = 5.0
	LmV	B	06.5	D = 86.59 Az = 39 (NEIS)
				LmH B 18s 0.2/um
				LmV B 18 0.25/um
20.	ePKP	A	00 38 58	Fiji Islands Region 20.62 S 177.83 W
				H = 00 19 48.2 h = 310.0 km MB = 4.7
				D = 149.12 Az = 348 (NEIS)
				PKPV A 1.3s 13.1nm
20.	LmH	B	08 40.2	South of Marianas 12.42 N 144.37 E
	LmV	B	40.2	H = 07 34 06.2 h = 36 km MB = 5.5 (ISC)
				D = 105.0
				LmH B 18s 0.7/um M = 5.3
				LmV B 18 0.9/um 5.4
20.	eP	A	08 56 26	Svalbard Region 77.72 N 17.80 E
	LmH	B	09 06.0	H = 08 50 36.7 h = 6.0 km MB = 4.8
	LmV	B	09.4	D = 27.28 Az = 189 (NEIS)
				PV A 1.4s 9.3nm M = 4.3
				LmH B 18 0.4/um 4.1
				LmV B 16 0.5/um 4.3
20.	eP	A	09 24 23	Southern Iran 26.18 N 54.38 E
				H = 09 16 44 h = 42 km MB = 4.6
				D = 40.68 Az = 318 (ISC)
20.	iPg	A	11 40 41	Czechoslovakia 50.57 N 14.21 E
	iSg	A	41 02	H = 11 40 10.5 h = 0 km
				D = 1.66 Az = 274 (ISC)
20.	eP	A	13 17 24	Off Coast of Hokkaido, Japan
	e	A	17 39.5	42.79 N 148.01 E
				H = 13 05 19.0 h = 33.0 km MB=5.0 MS=4.2
				D = 79.48 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
20.	eP	A	13 58 57	Caspian Sea 42.74 W 47.99 E
	LmH	B	14 09.5	H = 13 53 25.0 h = 32.8 km MB = 4.7
	LmV	B	12.6	D = 25.96 Az = 300 (NEIS)
				LmH B 20s 0.6/um M = 4.1
				LmV B 12 0.5/um 4.4
20.	eP	A	15 59 08	North Atlantic Ridge 31.4 N 40.97 W
				H = 15 51 12 h = 33 km MB = 4.5
				D = 43.04 Az = 48 (ISC)
				PV A 1.3s 13.1nm
20.	ePKHKP	A	16 45 26	South of Fiji Islands 25.01 S 178.43 E
	e(PKP2)	A	45 39	H = 16 26 35.2 h = 598.6 km MB = 4.8
				D = 152.45 Az = 342 (NEIS)
20.	eP	A	21 28 28.5	North Atlantic Ridge 31.82 N 40.91 W
				H = 21 20 32.2 h = 33.0 km MB = 4.7 (NEIS)
				D = 42.7
				PV A 1.4s 23.2nm M = 4.8
21.	LmH	B	02 32.2	Easter Island Cordillera 23.31 S 115.17 W
	LmV	B	32.4	H = 01 12 13.6 h = 21 km MB = 4.8 (ISC)
				D = 130.8
				LmH B 18s 0.3/um M = 5.0
				LmV B 18 0.4/um 5.1
21.	eP	A	04 17 46	Turkey 36.33 N 30.95 E
				H = 04 13 18.9 h = 86.4 km MB = 3.9
				D = 19.96 Az = 322 (NEIS)
				PV A 1.3s 21.8nm M = 4.3
21.	ePKIKP	A	14 20 26	Solomon Islands 5.77 S 154.44 E
				H = 14 02 10.4 h = 403.0 km MB = 4.9 (NEIS)
				D = 125.7
21.	e(P)	A	16 24 02.5	Turkey 36.11 N 31.11 E
				H = 16 19 30.1 h = 34 km MB = 4.0
				D = 20.20 Az = 322 (ISC)

Day	Phase		h m s	Remarks
21.	ePn	A	16 50 45	Region of Aachen, Fed. Rep. of Germany
	eSg	A	50 44	H = 16 49 52 (BCIS) 50.8 N 6.1 E
				D = 3.5
				PnV A traces
21.	ePKHKP	A	17 56 46	Fiji Islands Region 20.98 S 178.08 W
				H = 17 37 51.9 h = 490.4 km MB=4.8 (NEIS)
				D = 149.5
22.	eP	A	02 02 41	Kurile Islands 43.35 N 147.42 E
				H = 01 50 40.4 h = 41 km MB = 4.9 (NEIS)
				D = 78.8
				PV A 1.4s 14.0nm M = 4.8
22.	eP	AB	02 36 49	South of Honshu, Japan 30.08 N 142.12 E
	e	B	37 50	H = 02 23 58.7 h = 33.0 km MB=5.8 MS=5.9
	ePP	AB	40 18	(NEIS)
	eSKS	B	47 16	D = 88.5
	eS	B	47 32	PV A 3.0s 710.0nm M = 6.5
	ePS	C	48 36	PV B 5 2.0/um 6.7
	eSS	B	53 28	PPV A 1.8 162.2nm 6.2
	LmH	B	03 19.0	PPV B 5.5 1.6/um 6.7
	LmV	B	23.3	LmH B 15.5 14.5/um 6.6
				LmV B 13 11.4/um 6.5
22.	+iP	AB	04 36 36	Kamchatka 51.99 N 157.58 E
	e	A	36 53	H = 04 25 15.3 h = 133.0 km MB = 5.3 (NEIS)
				D = 73.8
				PV A 1.3s 188.0nm M = 5.7
22.	LmH	B	08 16.3	South of Honshu 29.97 N 142.04 E
	LmV	B	22.3	H = 07 22 41 h = 13 km MB = 4.7 (ISC)
				D = 88.5
				LmH B 15s 0.5/um M = 5.1
				LmV B 14 0.5/um 5.1
22.	ePKP	A	12 02 00	Fiji Islands Region 17.83 S 177.20 W
				H = 11 43 05.9 h = 419.2 km MB = 4.4 (NEIS)
				D = 146.5

Day	Phase		h m s	Remarks
22.	eP	AB	22 56 13	Kurile Islands 43.17 N 147.15 E
	eS	B	23 06 08	H = 22 44 10.2 h = 21.0 km
	ePS	B	06 52	MB = 5.7 MS = 6.1 (NEIS)
	eSS	C	12 00	D = 78.9
	LmH	B	28.7	PV A 1.5s 126.0nm M = 5.7
	LmV	B	35.9	PV B 16 2.1/um 5.9
				SH B 14.5 2.8/um 6.1
				LmH B 21.5 28.1/um 6.6
				LmV B 17 22.1/um 6.6
22.	eP	A	23 12 55	Kurile Islands 43.02 N 147.29 E
				H = 23 00 53.0 h = 33.0 km MB = 5.3 (NEIS)
				D = 79.5
				PV A 1.5s 35.2nm M = 5.2
22.	eP	A	23 49 15	Kurile Islands 43.02 N 147.25 E
	epP	A	49 26	H = 23 37 14.0 h = 35 km MB = 4.8 (NEIS)
				D = 79.5 h = 40 km
				PV A traces
				pPV A 1.3s 17.5nm
23.	e(P)	A	00 29 25	Mid-Indian Rise 12.22 S 65.57 E
				H = 00 17 19.4 h = 33.0km MB = 4.4 (NEIS)
				D = 79.1
				PV A traces
23.	e(P)	A	01 40 02.5	Off Coast of Hokkaido, Japan
	e	A	40 11	42.80 N 147.26 E
				H = 01 27 57.1 h = 38 km MB = 5.0 (NEIS)
				D = 79.2
23.	e	A	01 55 58	Near East Coast of Kamchatka
				55.16 N 162.78 E
				H = 01 44 40.4 h = 51 km
				D = 71.85 Az = 341 (ISC)
23.	eP	AB	09 25 43.5	Kurile Islands 42.96 N 147.27 E
	epP	A	25 54	H = 09 13 41.5 h = 36.0 km
	ePP	B	28 30	MB = 5.4 MS = 5.5 (NEIS)

Day	Phase		h m s	Remarks
cont. 23.	eS	B	09 35 40	D = 79.5 h = 38 km
	eSS	B	40 52	PV A 1.6s 55.0nm M = 5.3
	LmH	B	58.2	LmH B 20.5 4.7/um 5.8
	LmV	B	10 05.6	LmV B 17 3.9/um 5.9
23.	ePKP	A	09 44 38	Fiji Region 17.27 S 178.99 W
				H = 09 26 01.1 h = 557 km
				D = 145.7
				PKPV A 1.4s 37.2nm
23.	eP	A	12 08 23	Kurile Islands 43.00 N 147.02 E
	LmH	B	45.3	H = 11 56 27.2 h = 38.0 km MB = 5.0 (NEIS)
	LmV	B	50.9	D = 79.0
				LmH B 16s 0.4/um M = 4.8
				LmV B 14 0.3/um 4.9
23.	eP	A	12 57 26	Kurile Islands 43.01 N 147.04 E
	epP	A	57 37.5	H = 12 45 24.6 h = 37.0 km MB = 4.8 (NEIS)
				D = 79.0 h = 42 km
23.	iPg	AB	13 17 55.5	FRG - GDR Border Region
	iSg	B	18 10.5	50.59 N 9.86 E
	LmH	B	18.3	H = 13 17 38.4 h = 33 km
	LmV	B	18.3	MB = 5.3 MS = 4.0 (NEIS)
				D = 1.04
				PV A off scale
				PV B 2.5s 23.1/um
				LmH B 3 223.0/um M = 5.2
				LmV B 3 290.0/um
24.	LmH	C	01 34.0	Off Coast of Northern Chile
	LmV	C	35.0	21.1 S 71.9 W
				H = 00 39 48.3 h = 16 km MB = 5.4 (ISC)
				D = 102.1
				LmH C 24s 0.3/um M = 4.7
				LmV C 22 0.3/um 4.8

Day	Phase		h m s	Remarks
24.	eP	A	19 04 31	Kurile Islands 43.39 N 147.71 E
				H = 18 52 29.4 h = 32.3 km MB = 4.8 (NEIS)
				D = 78.9
24.	ePKIKP	A	21 35 04.5	Tonga Islands 20.61 S 174.17 W
	+ePKHKP	A	35 09	H = 21 15 19.0 h = 23.0 MB=5.4 MS=4.9
	e	A	35 19	D = 149.68 Az = 353 (NEIS)
	e	A	35 30.5	PKHKPV A 1.4s 46.5nm
	LmH	C	22 51.0	LmH C 18.5 0.45/um M = 5.2
	LmV	B	55.2	LmV B 17 0.45/um 5.3
24.	eP	A	23 41 16	Southeast of Taiwan 22.92 N 123.00 E
	LmH	B	24 24.2	H = 23 28 39.2 h = 13.0 km MB=5.5 (NEIS)
	LmV	B	24.5	D = 85.2
				PV A 2.0s 68.5nm M = 5.5
				LmH B 16 0.9/um 5.3
				LmV B 16 0.9/um 5.3
25.	eP	A	01 14 54	North Atlantic Ridge 12.91 N 44.73 W
	e	A	15 02	H = 01 04 56.0 h = 33 km MB = 4.2 (NEIS)
				D = 59.1
				PV A 1.5s 15.1nm M = 4.9
25.	eP	A	16 26 25	Kurile Islands 43.24 N 147.91 E
				H = 16 14 18.9 h = 11.5 km MB = 5.0
				D = 79.04 Az = 333 (NEIS)
25.	ePP	B	19 38 00	Off Coast of Jalisco, Mexico
	eS	C	44 50	19.04 N 107.14 W
	ePS	BC	46 16	H = 19 20 44.3 h = 33 km
	eSS	BC	51 15	MB = 4.9 MS = 5.6 (NEIS)
	LmH	B	20 17.4	D = 92.4
	LmV	B	17.4	LmH B 16s 2.7/um M = 5.8
				LmV B 16 2.8/um 5.8

Day	Phase		h m s	Remarks
26.	eP	A	06 57 55.5	Guatemala 14.00 N 90.77 W
	LmH	B	07 39.5	H = 06 45 17.6 h = 76.0 km MB = 4.8
	LmV	B	41.1	D = 86.98 Az = 39 (NEIS)
				LmH B 18s 0.2/um
				LmV B 18 0.3/um
26.	eP	A	08 11 19.5	Fox Islands, Aleutian Is.
	epP	A	11 32.5	52.37 N 168.73 W
				H = 07 59 27.2 h = 37.4 km MB=5.1 MS=4.5
				D = 77.36 Az = 360 (NEIS)
				h = 48 km
				PV A 1.5s 45.3nm M = 5.3
26.	eP	A	08 20 12.5	Off East Coast of Kamchatka
	LmH	B	58.6	52.91 N 160.10 E
	LmV	B	59.2	H = 08 08 41.8 h = 33.0 km MB = 4.7
				D = 73.45 Az = 340 (NEIS)
				PV A 1.0s 11.8nm M = 4.8
				LmH B 18 0.4/um 4.6
				LmV B 17 0.4/um 4.8
26.	-eP	AB	10 04 14	South of Honshu, Japan 31.87 N 138.06 E
	epP	A	05 49	H = 09 52 19.9 h = 389.4 km MB = 5.4
	eS	B	14 09	D = 85.22 Az = 329 (NEIS)
				h = 425 km
				PV A 1.7s 54.5nm M = 5.1
				SH B 8 1.6/um 5.7
26.	eP	AB	10 43 12	Kurile Islands Region 43.29 N 147.98 E
	epP	A	43 24	H = 10 31 06.7 h = 9.5 km MB = 5.3
	LmH	B	11 21.4	D = 79.02 Az = 333 (NEIS)
	LmV	B	23.1	h = 44 km
				PV A 1.6s 38.5nm M = 5.2
				LmH B 15 2.0/um 5.6
				LmV B 15 1.7/um 5.5
26.	+iP	AB	12 42 17.5	Southern Nevada 37.28 N 116.37 W
	ei	A	42 39.5	H = 12 30 00.2 h = 0.0 km MB=6.2 MS=5.0
	ePP	A	45 22	D = 81.23 Az = 31 (NEIS)

Day	Phase		h m s	Remarks
cont.				
26.	LmH	B	13 21.1	Nuclear explosion CAMEMBERT (USAEC)
	LmV	B	21.2	PV A 1.3s 179.0nm M = 6.0
				LmH B 15.5 0.8/um 5.2
				LmV B 15 0.9/um 5.3
26.	eP	A	13 19 04.5	Off Coast of Hokkaido, Japan
	LmH	B	55.1	42.83 N 148.16 E
	LmV	B	58.7	H = 13 07 02.5 h = 50.0 km MB = 5.4
				D = 79.49 Az = 334 (NEIS)
				PV A 2.0s 85.5nm M = 5.3
				LmH B 16 0.8/um 5.1
				LmV B 16 0.8/um 5.2
26.	eX	A	15 38 16	Taiwan 23.89 N 121.68 E
	LmH	B	16 18.5	H = 15 25 31.5 h = 50.4 km MB=5.1 MS=4.6
	LmV	B	19.4	D = 83.65 Az = 323 (NEIS)
				XV A 1.3s 15.3nm
				LmH B 20 0.55/um
				LmV B 16 0.6/um
27.	ePKP	A	17 24 10	Samoa Islands Region 16.94 S 172.08 W
	e	A	24 22.5	H = 17 04 28.8 h = 29.3 km MB = 4.6
				D = 146.25 Az = 356 (NEIS)
27.	eP	A	19 10 19	Afghanistan-USSR Border Region
	epP	A	11 07	36.50 N 71.25 E
				H = 19 02 30.2 h = 225.0 km MB = 4.7
				D = 44.27 Az = 308 (NEIS)
				h = 227 km
				PV A 1.2s 16.3nm M = 4.3
28.	eP	A	03 02 53	Kurile Islands Region 43.20 N 148.00 E
	LmV	B	42.7	H = 02 50 51.0 h = 43.0 km MB=5.0 MS=4.1
	LmH	B	42.9	D = 79.11 Az = 333 (NEIS)
				LmH B 16s 0.3/um M = 4.7
				LmV B 16 0.4/um 4.8

Day	Phase		h m s	Remarks
28.	eP	A	04 34 17.5	Hindu Kush Region 36.47 N 70.18 E
				H = 04 26 33.2 h = 217.1 km MB = 4.9
				D = 43.61 Az = 308 (NEIS)
28.	ePKP2	A	04 37 42	South of Fiji Islands 26.81 S 178.08 W
				H = 04 17 48.2 h = 205.0 km MB = 4.8
				D = 155.06 Az = 345 (NEIS)
				PKP2V A 1.6s 27.5nm
28.	eP	A	16 37 45	Western Iran 32.57 N 49.09 E
				H = 16 31 15.0 h = 58.1 km MB = 4.7
				D = 32.88 Az = 314 (NEIS)
28.	eP	A	21 42 53	Burma 22.66 N 95.00 E
				H = 21 32 02.2 h = 129.9 km MB = 5.1
				D = 68.70 Az = 317 (NEIS)
28.	eSg	A	23 59 43.5	France 47.30 N 6.33 E
				H = 23 57 06.2 h = 33 km (NEIS)
				D = 4.85
29.	ePKIKP	A	00 49 18.5	New Hebrides Islands 13.27 S 167.08 E
	e(SKP)	A	52 36.5	H = 00 30 15.8 h = 190.0 km MB = 5.3
	e	A	52 44.5	D = 137.72 Az = 337 (NEIS)
				PKIKPV A 1.5s 20.1nm
29.	-iP	AB	10 48 31.5	Sea of Japan 38.76 N 129.99 E
	ipP	AB	50 28	H = 10 37 41.4 h = 560.0 km MB = 6.2
	eisP	C	51 27	D = 75.86 Az = 325 (NEIS)
	i	AB	51 33.5	h = 565 km
	epPP	B	53 12	PV A 1.4s 1280.0nm M = 6.2
	iS	AB	57 28	PV B 10 24.8/um 6.6
	iSS	B	11 01 40	SH B 12 58.1/um 7.3
	isSS	B	08 52	LmH B 15.5 33.3/um
	eP'P'	A	15 36	LmV B 14 34.8/um
	eSKPP'	A	18 16	
	LmH	B	24.4	
	LmV	B	24.4	

Day	Phase		h m s	Remarks
29.	eP	A	12 35 23	Eastern USSR 53.05 N 132.16 E
	e	A	35 52	H = 12 24 43.4 h = 33.0 km MB = 4.9
				D = 65.2 Az = 323 (NEIS)
29.	eP	A	15 08 37.5	Red Sea 19.05 N 39.46 E
				H = 15 01 16.1 h = 33.0 km MB = 4.8
				D = 38.49 Az = 331 (NEIS)
29.	eP	A	17 40 16	Greece 38.46 N 21.62 E
	LmH	B	46.4	H = 17 36 55.6 h = 39.3 km MB = 4.3
	LmV	B	46.4	D = 14.10 Az = 333 (NEIS)
				LmH B 15s 0.45/um M = 3.7
				LmV B 14 0.45/um
29.	eP	A	21 53 26	Red Sea 18.74 N 39.77 E
				H = 21 45 59.3 h = 33.0 km MB = 4.8
				D = 38.9 Az = 331 (NEIS)
				PV A 1.8s 27.0nm M = 4.7
30.	eP	A	03 34 49	Eastern Kazakh SSR 50.00 N 79.00 E
				H = 03 26 57.0 h = 0.0 km MB = 4.8
				D = 41.66 Az = 298 (NEIS)
				Underground explosion (UPP)
30.	eP	A	09 02 22	Andaman Islands Region 13.06 N 93.24 E
	epP	A	02 35	H = 08 50 43.3 h = 33.0 km MB=5.1 MS=4.5
				D = 74.72 Az = 319 (NEIS)
				h = 53 km
				PV A (2.0s) 42.7nm M = 5.1
30.	ePKIKP	A	10 52 46.5	South of Fiji Islands 23.53 S 177.28 W
	ePKHKP	A	52 51.5	H = 10 33 22.3 h = 220.0 km MB = 4.9
	ePKP2	A	53 00	D = 152.07 Az = 348 (NEIS)
				PKHKPV A 1.1s 16.1nm
30.	eP	AB	13 30 16	Greece 38.54 N 21.65 E
	eS	B	33 04	H = 13 26 55.8 h = 10.8 km MB=5.1 MS=5.4
	LmV	B	36.4	D = 14.04 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
cont. 30.	LmH	B	13 36.5	PV A 1.6s 49.5nm M = 5.1
				PV B 8 0.65/um 5.6
				LmH B 14 22.5/um 5.4
				LmV B 14.5 15.7/um
30.	e(P)	A	15 30 52	Greece 38.40 N 21.54 E
				H = 15 27 25.6 h = 33.9 km MB = 4.4
				D = 14.13 Az = 333 (NEIS)
				PV A traces
30.	eP	A	18 43 48	Greece 38.44 N 21.60 E
	LmH	B	50.0	H = 18 40 30.0 h = 27.5 km MB = 4.6
	LmV	B	50.4	D = 14.10 Az = 333 (NEIS)
				LmH B 14.5s 1.9/um M = 4.3
				LmV B 11 0.9/um
30.	eP	A	18 56 38	Baffin Bay 71.62 N 71.0 W
				H = 18 48 58.8 h = 33 km MB = 4.8
				D = 40.77 Az = 75 (ISC)
				PV A 1.2s 16.3nm M = 4.6
30.	eP	AB	19 05 43	Yellowstone National Park, WYO
	eS	B	15 04	44.75 N 110.61 W
	eSKS	B	15 40	H = 18 54 13.4 h = 7.0 km
	eSS	C	20.0	MB = 5.6 MS = 5.9 (NEIS)
	LmH	B	32.8	D = 72.5
	LmV	B	40.5	PV A 2.2s 87.2nm M = 5.5
				LmH B 17.5 7.3/um 6.0
				LmV B 16 7.3/um 6.1
30.	eP	A	19 12 02	Yellowstone National Park, WYO
				44.77 N 110.72 W
				H = 19 00 27.0 h = 5.0 km MB = 5.1
				D = 72.63 Az = 34 (NEIS)
				PV A traces
30.	eP	A	23 11 25	Michoacan, Mexico 18.25 N 102.77 W
	ePP	B	15 00	H = 22 58 24.0 h = 27.4 km

Day	Phase		h m s	Remarks
cont. 30.	eSKS	C	23 22 04	MB = 5.1 MS = 5.0 (NEIS)
	ePS	C	23 30	D = 89.7
	eSS	C	28 40	PV A 2.2s 54.6nm M = 5.4
	LmV	B	54.2	LmH B 16.5 1.1/um 5.4
	LmH	B	58.4	LmV B 16 1.1/um 5.4

Day	Phase		h m s	Remarks
1.	eP	A	03 33 39	North of Svalbard 80.45 N 2.37 W
				H = 03 27 28.9 h = 33.0 km MB = 4.3
				D = 30.29 Az = 130 (NEIS)
1.	e(pP)	A	09 36 50	Taiwan Region 24.84 N 122.41 E
				H = 09 24 05.1 h = 105.1 km MB = 4.9
				D = 83.30 Az = 323 (NEIS)
1.	LmH	C	19 02.5	Southern Nevada 37.18 N 116.39 W
	LmV	C	04.3	H = 18 14 10.4 h = 14 km (ISC)
				D = 70.5
1.				LmH C 18s 0.25/um M = 4.5
				LmV C 18 0.35/um 4.7
2.	LmH	B	01 13.0	Greece 38.59 N 21.82 E
	LmV	B	13.0	H = 01 03 42.1 h = 17.2 km MB = 4.3
				D = 14.05 Az = 332 (NEIS)
				LmH B 14s 0.6/um M = 3.9
				LmV B 11 0.5/um
2.	eP	A	01 33 47	Greece 38.51 N 21.48 E
	LmH	C	38.5	H = 01 30 29.3 h = 36.9 km MB = 4.1
	LmV	C	39.5	D = 14.01 Az = 333 (NEIS)
				LmH C 14s 0.7/um M = 3.9
2.	ePKP	A	02 12 29	New Hebrides Islands 18.78 S 169.34 E
				H = 01 53 24.3 h = 240.8 km MB = 4.0
				D = 143.60 Az = 336 (NEIS)
2.	LmH	C	02 29.0	Greece 38.31 N 21.57 E
	LmV	C	29.0	H = 02 19 45.6 h = 46 km (ISC)
				D = 14.3
2.	ePKP2	A	03 47 02	West of Macquarie Island
	LmH	B	04 57.9	57.51 S 148.08 E
	LmV	B	59.5	H = 03 26 51.1 h = 33.0 km
				D = 153.93 Az = 274 (NEIS)

Day	Phase		h m s	Remarks
2.	eP	A	07 22.16	Kamchatka 55.73 N 160.28 E
	LmH	C	55.4	H = 07 10 56.3 h = 33.3 km MB = 4.7
	LmV	C	58.4	D = 70.84 Az = 339 (NEIS)
				PV A 1.3s 8.7nm M = 4.7
				LmH C 16 0.45/um 4.8
				LmV C 16 0.3/um 4.7
2.	eP	A	07 45 42	Kamchatka 55.78 N 160.35 E
				H = 07 34 22.2 h = 24.8 km MB = 4.7
				D = 70.81 Az = 340 (NEIS)
				traces
2.	eP	A	11 15 33.5	Kashmir-Tibet Border Region
	LmH	B	59.7	32.54 N 78.59 E
	LmV	B	59.7	H = 11 06 29.5 h = 32.7 km MB = 4.9
				D = 51.46 Az = 311 (NEIS)
				LmH B 15s 0.3/um M = 4.4
				LmV B 15 0.5/um 4.7
2.	eP	A	19 54 17.5	Kurile Islands 48.32 N 154.42 E
	LmH	C	20 22.0	H = 19 42 33.5 h = 58.8 km MB = 5.0
	LmV	C	31.0	D = 76.37 Az = 337 (NEIS)
				PV A 1.2s 16.3nm M = 4.9
2.	ePKP	A	23 25 24.5	Fiji Region 17.8 S 178.0 W
				H = 23 06 49.4 h = 598 km (ISC)
				D = 146.4
				PKPV A 1.2s 10.2nm
3.	ePKP	A	01 52 52.5	Fiji Islands Region 17.19 S 177.18 W
				H = 01 34 01.8 h = 423.2 km MB = 4.6
				D = 145.89 Az = 350 (NEIS)
				PKPV A 1.5s 15.1nm
3.	eP	A	03 59 29	Kurile Islands 43.27 N 147.90 E
				H = 03 47 25.8 h = 29.2 km MB = 4.7
				D = 79.01 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
3.	LmH	B	09 09.3	Greece 38.4 N 21.8 E
	LmV	B	09.3	H = 08 59 47 h = 0 km (ISC)
				D = 14.3
				LmH B 13s 0.4/um M = 3.7
3.	LmH	B	10 43.0	Greece 38.45 N 21.55 E
	LmV	B	43.6	H = 10 33 32.5 h = 42 km MB = 3.8 (ISC)
				D = 14.1
				LmH B 14s 0.2/um M = 3.3
3.	eP	A	18 56 47	Ryukyu Islands 26.97 N 128.44 E
	LmH	B	19 32.7	H = 18 44 23.6 h = 123.8 km MB = 4.5
	LmV	B	40.2	D = 84.75 Az = 325 (NEIS)
				LmH B 19s 0.35/um
				LmV B 12 0.3/um
3.	LmH	B	23 46.8	LmH B 17s 0.45/um
4.	eP	A	00 28 14	Greece 38.3 N 21.8 E
	LmH	B	34.3	H = 00 24 48 (BCIS)
	LmV	B	34.7	D = 14.34
				LmH B 13s 0.3/um M = 3.6
4.	LmH	B	03 12.2	West Irian Region 1.73 S 134.37 E
				H = 02 10 42.5 h = 48 km MB = 4.9 (ISC)
				D = 111.6
				LmH B 18.5s 0.5/um M = 5.2
4.	ePKIKP	AB	11 45 11	Tonga Islands 21.26 S 174.13 W
	ePKHKP	A	45 17	H = 11 25 24.5 h = 14.5 km MB=5.7 MS=5.4
	LmH	B	12 58.3	D = 150.32 Az = 353 (NEIS)
	LmV	B	58.6	PKIKPV A 2.0s 34.2nm
				PKHKPV A 2.2 185.0nm
				LmH B 15 0.5/um M = 5.4
				LmV B 20 0.7/um 5.5
4.	ePKIKP	A	20 58 27	Flores Island Region 8.16 S 123.03 E
	ePP	A	59 03	H = 20 40 10.9 h = 132.0 km MB = 5.6

Day	Phase		h m s	Remarks
cont. 4.	LmH	C	21 38.0	D = 109.81 Az = 321 (NEIS)
	LmV	C	38.0	PPV A 1.6s 27.5nm M = 5.5
5.	eP	A	02 30 55	Near East Coast of Honshu, Japan
				36.73 N 140.21 E
				H = 02 18 46.9 h = 117.0 km MB = 4.8
				D = 81.95 Az = 330 (NEIS)
5.	ePKP2	A	09 50 16.5	Kermadec Islands Region 31.33 S 179.66 E
				H = 09 30 30.4 h = 408 km MB = 4.8 (NEIS)
				D = 158.8
				PKP2V A 1.6s 33.0nm
5.	eP	A	10 35 52	Mediterranean Sea 35.65 N 22.80 E
	LmH	B	43.0	H = 10 31 49.8 h = 64.6 km MB = 3.3
	LmV	B	43.5	D = 17.03 Az = 335 (NEIS)
5.	ePn	A	12 49 51.5	Austria 47.89 N 14.06 E
	eSg	A	50 43.5	H = 12 49 01.5 h = 33.0 km
	i	A	50 46	D = 3.19 Az = 331 (NEIS)
5.	ePKHKP	A	21 06 20.5	Fiji Islands Region 20.24 S 177.85 W
				H = 20 47 34.2 h = 547 km M = 4.5 (NEIS)
				D = 148.7
				PKHKPV A 1.1s 14.1nm
5.	ePKP	A	21 58 35	Fiji Islands Region 17.96 S 178.53 W
				H = 21 39 58.1 h = 600.5 km MB = 5.0
				D = 146.39 Az = 348 (NEIS)
				PKPV A 1.7s 18.2nm
6.	eP	A	10 47 47	Eastern Gulf of Aden 13.23 N 51.65 E
				H = 10 38 56.8 h = 33.0 km MB = 4.9
				D = 49.46 Az = 327 (NEIS)
6.	ePKHKP	A	14 36 38.5	South of Fiji Islands 26 S 180 W
				H = 14 16 38 MB = 3.6 (NORSAR)
				D = 153.8

Day	Phase		h m s	Remarks
6.	eP	A	21 19 12.5	Northern Celebes 0.15 N 124.85 E
	ePP	A	23 33	H = 21 05 14.6 h = 90.2 km MB = 5.4
				D = 104.43 Az = 323 (NEIS)
6.	LmH	C	21 35.4	LmH C 16s 0.25/um
	LmV	C	39.4	LmV C 17 0.2/um
7.	ePn	A	00 38 17	D ca. 2.5
	eSg	A	38 57.5	
7.	eP	A	12 29 10	Volcano Islands Region 23.89 N 142.91 E
	LmH	B	13 09.0	H = 12 15 53.9 h = 33.0 km
	LmV	B	19.6	MB = 5.6 MS = 5.1 (NEIS)
				D = 94.3
				LmH B 18s 0.45/um M = 5.0
				LmV B 16 0.3/um 4.9
7.	eP	A	18 02 28	Taiwan 23.05 N 119.98 E
				H = 17 50 01.0 h = 23.0 km MB = 4.8 (NEIS)
				D = 83.4
				PV A 1.6s 16.5nm M = 4.9
7.	eP	AC	19 41 36	Volcano Islands Region 25.91 N 140.97 E
	eSKS	B	51 50	H = 19 28 42.1 h = 119 km MB = 5.9 (NEIS)
	eSP	AC	53 31	D = 91.7
	eSS	C	58 25	PV A 1.6s 49.5nm M = 5.5
	ePKKP	A	58 55	SPV A 2.0 42.7nm
	LmH	B	20 20.5	LmH B 16.5 1.1/um
	LmV	B	21.1	LmV B 16 0.5/um
7.	eP	A	20 37 15	Near East Coast of Honshu, Japan
				37.14 N 141.88 E
				H = 20 24 55.1 h = 35.7 km MB = 4.8 (NEIS)
				D = 82.3
8.	eP	AB	09 50 08	Gulf of California 29.46 N 113.35 W
	Pm	A	50 16	H = 09 37 27.3 h = 33.0 km
	eS	B	10 00 52	MB = 5.8 MS = 6.5 (NEIS)
	eSS	B	06 32	D = 86.6

Day	Phase		h m s	Remarks
cont.				
8.	LmH	B	10 23.7	PmV A 1.4s 48.9nm M = 5.6
	LmV	B	31.6	PV B 7 0.9/um 6.2
				SH B 8.5 7.7/um 6.8
				LmH B 22 80.9/um 7.1
				LmV B 16 44.5/um 7.0
8.	ePKHKP	A	11 05 20.5	Tonga Islands 19.95 S 173.48 W
				H = 10 45 31.2 h = 12.0 km MB = 5.0 (NEIS)
				D = 149.2
8.	+iP	AB	12 15 35	Burma 21.49 N 94.70 E
	epP	B	16 08	H = 12 04 42.4 h = 157.3 km MB = 6.5 (NEIS)
	ePP	B	18 08	D = 69.4 h = 137 km
	esPP	B	18 44	PV A 2.0s 2520.0nm M = 6.7
	esPPP	B	20 34	PV B 5 6.7/um 6.7
	eS	B	24 33	P'P'V A 2.6 832.0nm
	eSP	B	25 15	LmH B 21 56.7/um
	esSS	B	29 54	LmV B 20 38.0/um
	eSSS	B	32 50	
	eP'P'	A	43 40	
	LmH	B	44.0	
	LmV	B	50.0	
8.	eP	A	15 01 04	Tibet 35.50 N 87.68 E
				H = 14 51 31.9 h = 33.0 km MB = 4.8 (NEIS)
				D = 55.1
8.	eP	A	18 20 42	Mondoro, Philippine Islands
	e	A	20 53.5	13.45 N 120.08 E
				H = 18 07 37.5 h = 43 km MB = 4.9 (NEIS)
				D = 91.1
8.	eP	A	21 09 15	Andreanof Islands, Aleutian Is.
				51.55 N 178.29 W
				H = 20 57 22.7 h = 57.3 km MB = 5.0 (NEIS)
				D = 77.8
				PV A 1.3s 8.7nm M = 4.5

Day	Phase		h m s	Remarks
8.	-iP	AB	22 58 57	South of Honshu, Japan 32.80 N 142.22 E
	-i	A	59 03.5	H = 22 46 19.6 h = 51.0 km MB = 5.8 (NEIS)
	ePP	AB	23 02 17.5	D = 86.1
	eS	B	09 20	PV A 1.7s 200.0nm M = 6.0
	eSS	B	15 16	SH B 16 2.4/um 6.0
	ePKKP	A	16 55.5	LmH B 16 4.9/um
	eSSS	C	18 45	LmV B 18 6.2/um
	LmH	B	45.6	
	LmV	B	47.4	
8.	ePKP	A	24 15 49.5	Tonga Islands 18.38 S 174.72 W
				H = 23 56 26.0 h = 182.6 km MB = 4.4 (NEIS)
				D = 147.3
9.	e	A	04 27 11	Ryukyu Islands 27.29 N 129.41 E
				H = 04 14 31.0 h = 57.0 km MB = 4.4
				D = 84.98 Az = 326 (NEIS)
9.	eP	A	11 41 30	Burma 21.54 N 94.70 E
				H = 11 30 39.9 h = 178.4 km MB = 4.8
				D = 69.33 Az = 318 (NEIS)
				PV A 1.0s 9.8nm M = 4.6
9.	eP	AB	11 46 45.5	Kurile Islands 43.48 N 147.33 E
	eS	C	56 40	H = 11 34 45.7 h = 36.1 km MB = 5.1
	LmH	B	26.3	D = 78.64 Az = 333 (NEIS)
	LmV	B	26.4	PV A 1.7s 54.5nm M = 5.3
				LmH B 16 1.5/um 5.4
				LmV B 16 1.9/um 5.6
9.	+eP	AB	13 07 53.5	Ryukyu Islands 28.17 N 130.02 E
	eS	C	18 28	H = 12 55 23.0 h = 33.0 km MB = 5.3
	LmH	B	43.7	D = 84.56 Az = 326 (NEIS)
	LmV	B	50.5	PV A 1.9s 53.0nm M = 5.4
				LmH B 18 2.4/um 5.6
				LmV B 14.5 2.9/um 5.8

Day	Phase		h m s	Remarks
9.	eP	A	14 07 11	Yunnan Province, China 24.07 N 103.37 E
	LmH	C	41.8	H = 13 55 44.6 h = 33.0 km MB = 4.9
	LmV	C	41.8	D = 72.85 Az = 318 (NEIS)
				PV A 1.8s 30.4nm M = 5.0
9.	eP	A	15 01 55.5	Turkey 35.98 N 29.56 E
				H = 14 57 23.2 h = 18.6km MB = 3.4
				D = 19.56 Az = 324 (NEIS)
10.	eP	A	05 43 09.5	Near S. Coast of Honshu, Japan
				33.10 N 137.21 E
				H = 05 31 20.3. h = 372.7 km MB = 5.1
				D = 83.80 Az = 329 (NEIS)
				PV A 1.4s 25.6nm M = 4.8
10.	eP	A	11 14 11	North of Ascension Island
	LmH	B	38.4	1.33 S 14.09 W
	LmV	B	40.2	H = 11 04 33.1 h = 33.0 km MB = 4.8
				D = 56.24 Az = 19 (NEIS)
				LmH B 15s 0.3/um M = 4.6
				LmV B 17 0.4/um 4.6
10.	eP1	AB	18 42 55	Mindanao, Philippine Islands
	eiP2	A	43 05	6.51 N 126.64 E
	e	B	43 16	H = 18 29 16.0 h = 86.2 km MB = 6.2
	ePP2	B	47 10	D = 100.42 Az = 324 (NEIS)
	eSKS2	B	53 52	P1V A 1.3s 61.1nm M = 6.1
	eS2	B	54 52	P2V A 1.8 256.8nm 6.6
	LmH	B	19 33.2	PP2V B 12 6.0/um 7.1
	LmV	B	33.3	LmH B 20 41.2/um
				LmV B 19 51.2/um
10.	eP	A	19 04 34	Greenland Sea 78.8 N 0 W
				H = 18 58 42 h = 33 km
				D = 28.66 Az = 163 (ISC)
11.	eP	A	05 22 46.5	Taiwan Region 24.08 N 122.40 E
				H = 05 10 19.3 h = 47.9 km MB = 5.1
				D = 83.89 Az = 323 (NEIS)

Day	Phase		h m s	Remarks
11.	eP	A	05 34 39	Near East Coast of Kamchatka
				53.35 N 158.72 E
				H = 05 23 22.3 h = 118.0 km MB = 4.7
				D = 72.74 Az = 339 (NEIS)
				PV A 1.2s 16.3nm M = 4.7
11.	e	A	07 22 29	Algeria 36.32 N 5.24 E
				H = 07 18 46.6 h = 33.0 km MB = 4.3
				D = 15.04 Az = 16 (NEIS)
11.	LmH	B	08 09.2	Northern Easter I.Cordillera
	LmV	B	09.2	4.59 S 104.94 W
				H = 07 08 39.9 h = 33 km MB = 5.3 (ISC)
				D = 110.2
				LmH B 20s 1.7/um M = 5.6
				LmV B 20 1.9/um 5.7
11.	ePKIKP	A	19 13 35	Solomon Islands 10.33 S 161.15 E
	epPKIKP	A	13 52	H = 18 54 27.1 h = 78.9 km MB = 5.9
	ePP	B	15 55	D = 132.64 Az = 334 (NEIS)
	e	AB	16 15	PKIKPV A 1.8s 33.8nm
	iSKP	AB	16 55	SKPV A 3.0 684.2nm
	ePKS	B	17 30	SKPV B 5.0 2.1/um
	eSS	C	33 32	LmH B 21.5 2.6/um
	LmH	B	20 12.8	LmV B 23 2.9/um
	LmV	B	12.9	
12.	eP	A	07 00 55	Peru-Bolivia Border Region
				17.17 S 69.35 W
				H = 06 47 37.5 h = 156.0 km MB = 5.5
				D = 97.51 Az = 39 (NEIS)
				PV A 1.7s 24.2nm M = 5.4
12.	ePKIKP	A	17 27 27	New Hebrides Islands 14.71 S 167.24 E
	e	A	27 37	H = 17 08 23.2 h = 125.5 km MB = 5.7
	eSKP	B	31 02	D = 139.09 Az = 336 (NEIS)
	e	A	31 13	LmH C 20s 0.3/um
	e	A	32 10	LmV C 20 0.5/um
	LmH	C	18 46.3	
	LmV	C	47.0	

Day	Phase		h m s	Remarks
12.	ePKIKP	AB	19 24 35	Kermadec Islands 29.09 S 177.48 W
	ePKHKP	A	24 46	H = 19 04 45.2 h = 63.1 km MB = 5.6
	e	A	24 50	D = 157.40 Az = 345 (NEIS)
	ePKP2	AB	25 07	LmH C 25s 1.3/um
	e	A	25 17	LmV C 28 1.7/um
	e	A	25 21	
	ePP	B	28 42	
	LmH	C	20 27.7	
	LmV	C	27.7	
13.	eP	A	04 39 39	North Atlantic Ridge 23.39 N 44.88 W
				H = 04 30 36.3 h = 33 km MB = 4.6
				D = 51.15 Az = 43 (ISC)
13.	eP	A	04 41 53	East China Sea 29.78 N 128.53 E
				H = 04 29 47.7 h = 169.0 km MB = 4.7
				D = 82.51 Az = 325 (NEIS)
				PV A 1.0s 19.7nm M = 4.8
13.	LmH	B	10 35.2	Philippine Islands Region 6.27 N 127.04 E
	LmV	B	35.2	H = 09 31 38.7 h = 38.8 km MB = 5.1
				D = 100.85 Az = 324 (NEIS)
13.	LmH	B	13 56.4	Philippine Islands Region 6.20 N 127.18 E
	LmV	B	14 10.7	H = 12 54 38.4 h = 54 km MB = 5.0 (ISC)
				D = 101.0
				LmH B 19s 0.5/um
				LmV B 19 0.3/um
13.	eP	A	21 15 32	North Atlantic Ridge 12.08 N 44.00 W
	e	A	15 38.5	H = 21 05 31.7 h = 33.0 km MB = 4.7
	LmH	C	36.3	D = 59.20 Az = 38 (NEIS)
	LmV	C	36.3	LmH C 23s 0.2/um M = 4.2
				LmV C 20 0.2/um 4.3
13.	ePn	A	23 17 47	Central Italy 43.01 N 13.37 E
	eSn	A	19 00	H = 23 15 44.1 h = 33 km (NEIS)
	e	A	19 36.5	D = 7.78
	LmH	C	21.3	
	LmV	C	21.9	

Day	Phase		h m s	Remarks
13.	ePn	A	23 26(21)	Adriatic Sea 43.00 N 13.95 E
	e	A	26 39	H = 23 24 26.4 h = 33 km (NEIS)
	e	A	27 07	D = 7.85
				PnV A traces
14.	ePKHKP	A	11 16 19.5	Tonga Islands 21.14 S 173.83 W
	ePKP2	A	16 25	H = 10 56 30.9 h = 33.0 km MB = 4.9
				D = 150.24 Az = 353 (NEIS)
14.	eP diff	A	14 56 25	Near N. Coast of West Irian
	e	A	15 00(17)	1.55 S 138.06 E
	ePKIKP	A	00 23	H = 14 41 39.8 h = 33.0 km MB=5.6 MS=5.5
	e	A	01 04	D = 113.50 Az = 326 (NEIS)
	ePS	B	10 55	LmH B 19s 1.6/um M = 5.6
	eSS	B	16 50	LmV B 18 2.1/um 5.8
	LmH	B	53.0	
	LmV	B	53.8	
14.	e	A	15 11 10.5	
	e	A	11 17	
14.	e	A	20 22 46	New Ireland Region 4.57 S 153.10 E
				H = 20 03 34.8 h = 78.1 km MB = 5.0
				D = 123.89 Az = 331 (NEIS)
14.	e	BC	23 45 35	Mid-Indian Rise 40.45 S 78.44 E
	e	A	46 43	H = 23 27 55.0 h = 33.0 km MB=5.6 MS=6.5
	e(SKS)	BC	56 25	D = 107.88 Az = 322 (NEIS)
	e	C	24 01 40	LmH B 19s 3.3/um M = 5.9
	LmH	B	40.8	LmV B 16 2.9/um 5.9
	LmV	B	46.9	
15.	e	A	00 52 07.5	
15.	e(Sg)	A	03 51 34	Poland 50.25 N 18.98 E
				H = 03 49 17.5 (WAR)
				D = 4.72 Az = 278 (ISC)

Day	Phase		h m s	Remarks
15.	eP	A	16 06 38	South of Panama 7.80 N 82.80 W
	e	A	06 53	H = 15 53 55.0 h = 33.0 km MB=4.8 MS=5.0
	eS	B	17 30	D = 86.83 Az = 39 (NEIS)
	LmH	B	39.7	PV A 2.0s 42.7nm M = 5.4
	LmV	B	41.4	LmH B 20 0.6/um 5.0
				LmV B 20 0.6/um 5.0
15.	eP	A	18 20 57	Off Coast of Hokkaido, Japan
				42.47 N 148.00 E
				H = 18 08 50.2 h = 33.0 km MB = 4.7
				D = 79.76 Az = 333 (NEIS)
15.	e(PKP2)	A	20 23 45	Kermadec Islands 30.59 S 177.43 W
				H = 20 03 03.1 h = 54 km MB = 5.0 (NEIS)
				D = 158.9
15.	eP	AB	22 03 55.5	Turkey 40.93 N 36.06 E
	eS	B	07 40	H = 21 59 25.0 h = 8.3 km MB = 4.6
	LmH	B	13.2	D = 19.54 Az = 308 (NEIS)
	LmV	B	13.2	PV A 1.6s 35.8nm M = 4.4
				PV B 5 0.5/um 5.1
				LmH B 17 0.9/um 4.2
				LmV B 20 1.2/um 4.4
16.	eP	A	03 36 38	Kurile Islands 43.16 N 146.40 E
				H = 03 24 42.7 h = 72.5 km MB = 4.9
				D = 78.61 Az = 333 (NEIS)
16.	eP	A	10 53 50.5	Near East Coast of Honshu, Japan
				37.09 N 141.35 E
				H = 09 51 34.3 h = 51.9 km
				D = 82.09 Az = 330 (NEIS)
				PV A 1.2s 12.2nm M = 4.8
16.	ePKIKP	AB	18 37 37	Kermadec Islands 30.62 S 177.49 W
	ePKP2	A	38(15)	H = 18 17 44.0 h = 46.0 km MB=5.3 MS=6.2
	e	A	38 19	D = 158.87 Az = 344 (NEIS)
	e	B	38 48	PKIKPV A 2.2s 43.6nm
	ePP	B	41 52	LmH B 17.5 2.5/um M = 6.0

Day	Phase		h m s	Remarks
cont. 16.	ePPP	B	18 45 42	LmV B 18.5s 4.5/um M = 6.3
	eSKSP	C	52 17	
	eSS	B	19 01 51	
	LmH	B	20 00.0	
	LmV	B	04.4	
16.	ePKIKP	A	19 58 23	Kermadec Islands 30.87 S 177.43 W
	ePKP2	A	59 00	H = 19 38 23.4 h = 37.0 km MB=5.3 MS=6.1
	e	A	59 10	D = 159.12 Az = 344 (NEIS)
				PKIKPV A traces
16.	e(PKP 2)	A	20 09 29.5	Kermadec Islands 30.6 S 177.2 W
				H = 19 48 47 h = 55 km
				D = 158.91 Az = 344 (ISC)
17.	eP	A	11 48 40.5	North Atlantic Ocean 52.81 N 34.89 W
	LmH	B	59.6	H = 11 42 42.5 h = 33.0 km
	LmV	B	59.7	MB = 4.3 MS = 3.9 (NEIS)
				D = 28.45
				LmH B 17s 0.3/um M = 4.0
				LmV B 16 0.4/um 4.2
17.	eP	A	13 44 29	Kashmir-Tibet Border Region
				35.50 N 79.80 E
				H = 13 35 31.1 h = 11.5 km MB = 4.7
				D = 50.29 Az = 310 (NEIS)
18.	e(PKP2)	A	03 02 55	Kermadec Islands Region 31.78 S 179.6 W
				H = 02 43 07.0 h = 490 km
				D = 159.39 Az = 339 (ISC)
18.	LmH	C	03 18.1	Near Coast of Nicaragua 11.54 N 87.3 W
	LmV	C	18.6	H = 02 28 06 h = 97 km MB = 4.6 (ISC)
				D = 86.8 or
				Near Coast of Nicaragua 11.94 N 86.94 W
				H = 02 30 41 h = 125 km MB = 4.7 (ISC)
				D = 86.3
				LmH C 19s 0.3/um
				LmV C 19 0.35/um

Day	Phase		h m s	Remarks
18.	eP1	A	09 38 26	Afghanistan 30.97 N 66.70 E
	eP2	A	38 29	H = 09 30 12.2 h = 34.8 km
	LmH	B	58.8	MB = 4.9 MS = 4.4 (NEIS)
	LmV	B	10 03.3	D = 44.9
				P2V A 1.6s 44.0nm M = 5.1
				LmH B 19.5 0.5/um 4.4
				LmV B 16 0.4/um 4.5
18.	ePKP	A	19 01 49	Fiji Islands Region 17.86 S 178.31 W
				H = 18 43 00.7 h = 464.0 km MB = 4.2 (NEIS)
				D = 146.4
19.	eP	AB	04 15 06.5	South of Honshu, Japan 29.35 N 142.09 E
	ePP	AB	18 39	H = 04 02 10.2 h = 8.1 km
	eX	A	18 53	MB = 5.6 MS = 5.2 (NEIS)
	eSKS	C	25 45	D = 89.0
	eSS	C	31 55	PV A 1.6s 33.0nm M = 5.3
	LmH	B	31 55	PPV A 2.0 68.4nm 5.8
	LmV	B	05 00.5	XV A 2.0 98.3nm
				LmH B 17.5 2.3/um 5.7
				LmV B 16 1.6/um 5.6
19.	+eP	AB	06 20 02	Tibet-India Border Region 31.92 N 78.61 E
				H = 06 10 54.9 h = 40.4 km
				MB = 5.3 MS = 4.7 (NEIS)
				D = 51.8
				PV A 2.2s 98.1nm M = 5.4
19.	ePn	A	06 43 36.5	Yugoslavia 43.5 N 17.5 E
	e	A	43 49	H = 06 41 37 (ECIS)
	eSn	A	45 00	D = 8.19
	eSg	A	45 55	
19.	LmH	C	21 34.2	Near North Coast of New Guinea
	LmV	C	36.9	3.52 S 145.93 E
				H = 20 24 12.2 h = 33 km (ISC)
				D = 119.5
				LmH C 20s 0.25/um M = 4.8
				LmV C 20 0.25/um 4.9

Day	Phase		h m s	Remarks
19.	LmH	B	23 26.3	Galapagos Islands Region 1.75 N 90.69 W
	LmV	B	26.3	H = 22 34 45.0 h = 33 km MB = 4.9 (ISC)
				D = 96.5
				LmH B 20s 0.9/um M = 5.2
				LmV B 21 1.1/um 5.4
19.	eP	A	24 01 26	Panama-Costa Rica Border Region
	e	A	01 49	8.37 N 82.86 W
	LmH	B	40.7	H = 23 48 46.3 h = 48.5 km
	LmV	B	40.7	MB = 5.3 MS = 4.1 (NEIS)
				D = 86.4
				LmH B 17s 0.25/um M = 4.2
				LmV B 18 0.3/um 4.4
20.	eP	A	01 15 17	South of Honshu, Japan 33.08 N 140.46 E
	e	A	15 21.5	H = 01 02 49.1 h = 83.4 km MB = 5.0 (NEIS)
	e	A	15 36	D = 85.3
				PV A 1.0s 13.8nm M = 4.9
20.	ePKP2	A	06 18 24	Kermadec Islands 30.92 S 178.56 W
				H = 05 58 01.2 h = 103 km MB = 5.3 (NEIS)
				D = 158.9
				PKP2V A 1.3s 21.8nm
20.	+iP	AB	08 14 31.5	Kurile Islands 44.39 N 148.05 E
	eS	B	24 16	H = 08 02 40.6 h = 81.8 km MB = 5.8
	LmH	B	46.9	D = 78.06 Az = 333 (NEIS)
	LmV	B	54.1	PV A 2.0s 513.0nm M = 6.1
				PV B 3.5 1.3/um 6.2
				LmH B 20 1.9/um
				LmV B 15 1.0/um
20.	ePKHKP	A	09 07 58	West of Macquarie Island 54.67 S 144.45 E
	ePKP2	A	08 07.5	H = 08 48 04.8 h = 33.0 km MB = 5.2
				D = 151.54 Az = 282 (NEIS)
20.	ePKHKP	A	09 19 10.5	West of Macquarie Island 54.76 S 144.19 E
				H = 08 59 19.3 h = 33.0 km MB = 5.5
				D = 151.41 Az = 282 (NEIS)

Day	Phase		h m s	Remarks
20.	e(P)	A	10 53(38)	Algeria 36.64 N 2.83 E
	LmV	B	59.0	H = 10 49 53.2 h = 10.0 km MB = 4.9
	LmH	B	59.4	D = 15.36 Az = 22 (NEIS)
				PV A traces
				LmH B 14s 0.35/um M = 3.6
				LmV B 20 0.3/um 3.4
20.	+ePdiff	B	14 53 24	Solomon Islands 6.59 S 155.05 E
	e	A	56 28	H = 14 37 39.9 h = 49.4 km MB=6.6 MS=7.9
	ePKIKP	AB	56 39	D = 126.58 Az = 332 (NEIS)
	i	A	56 57	PdiffV B 16s 1.3/um
	iX	A	57 02	PKIKPV A 1.2 342.0nm
	ePP	B	58 44	XV A 1.5 653.3nm
	ePPP	B	15 01 20	PPV B 12 20.6/um M = 7.2
	ePS	B	08 40	PcPPKPV A 1.4 112.0nm
	ePcPPKP	A	10 11	YV A 4.5 2465.1nm
	eSPP	B	10 25	LmH B 20 150.0/um 7.7
	e	B	13 32	LmV B 21 165.0/um 7.7
	eY	A	13 50	
	eSS	B	15 44	
	ePSPS	B	16 20	
	LmH	B	55.5	
	LmV	B	55.5	
20.	ePKIKP	A	15 31 17.5	Solomon Islands 7.03 S 155.42 E
				H = 15 12 13.8 h = 33.0 km MB = 5.1
				D = 127.14 Az = 332 (NEIS)
				traces
20.	e	A	15 43 35	Solomon Islands 7.07 S 154.41 E
				H = 15 24 16.0 h = 33.0 km MB = 5.5
				D = 126.70 Az = 331 (NEIS)
20.	ePKIKP	A	15 51(04)	Solomon Islands 7.06 S 154.87 E
				H = 15 32 24.1 h = 33.0 km
				D = 126.90 Az = 332 (NEIS)

Day	Phase		h m s	Remarks
20.	ePKIKP	A	15 54 46.5	Solomon Islands 6.81 S 154.60 E
				H = 15 35 47.0 h = 54.2 km MB = 4.5
				D = 126.56 Az = 331 (NEIS)
20.	ePKIKP	A	16 33 04	Solomon Islands 6.94 S 154.96 E
				H = 16 14 01.2 h = 30.7 km MB = 5.4
				D = 126.84 Az = 332 (NEIS)
20.	ePKIKP	A	17 29 55	Solomon Islands 6.94 S 154.83 E
	e	A	30 05	H = 17 10 51.5 h = 23.7 km MB = 5.4
				D = 126.78 Az = 332 (NEIS)
20.	ePKIKP	A	17 35 28	Solomon Islands 6.86 S 154.66 E
				H = 17 16 26.2 h = 51.1 km MB = 4.9
				D = 126.62 Az = 332 (NEIS)
20.	ePKIKP	A	17 45 19	Solomon Islands 6.86 S 154.91 E
				H = 17 26 16.8 h = 33.0 km MB = 5.1
				D = 126.75 Az = 332 (NEIS)
20.	ePdiff	B	20 10 16	Solomon Islands 7.10 S 155.15 E
	ePKIKP	AB	13 30	H = 19 54 27.7 h = 43.5 km MB=6.1 MS=7.7
	iPKIKP	AB	13 36	D = 127.08 Az = 332 (NEIS)
	ePP	B	15 38	PdiffV B 17s 1.2/um
	eSKP	B	16 45	PKIKPV A 1.8 236.0nm
	ePS	B	25 40	PKIKPV B 14 3.7/um
	eSS	B	32 46	PPV B 16 16.2/um M = 7.0
	LmH	B	21 01.1	LmH B 20 78.6/um 7.4
	LmV	B	10.1	LmV B 22 83.6/um 7.4
20.	ePKIKP	A	20 28 32.5	Solomon Islands 6.93 S 154.99 E
				H = 20 09 28.7 h = 33.0 km MB = 5.6
				D = 126.84 Az = 332 (NEIS)
				PKIKPV A 1.8s 30.4nm
20.	e	A	22 08 25	Solomon Islands 7.22 S 155.17 E
				H = 21 49 12.6 h = 36.5 km MB = 5.2
				D = 127.19 Az = 332 (NEIS)

Day	Phase	h m s	Remarks
20.	+ePKIKP AB	23 24 17.5	Solomon Islands 6.58 S 154.65 E
	ePcPPKP A	37 26	H = 23 05 18.8 h = 49.7 km MB=6.2 MS=6.7
	e A	37 50	D = 126.38 Az = 332 (NEIS)
			PKIKPV A 2.2s 250.0nm
20.	ePKIKP A	23 46 55.5	Solomon Islands 6.66 S 154.64 E
			H = 23 27 50.5 h = 7.2 km MB = 5.4.
			D = 126.45 Az = 332 (NEIS)
			PKIKPV A 1.2s 16.3nm
21.	+ePKIKP AB	02 23 00.5	Solomon Islands 6.74 S 155.31 E
	ePP B	24 59	H = 02 03 59.8 h = 46.5 km MB=5.7 MS=6.8
	e B	26 17	D = 126.83 Az = 332 (NEIS)
			PKIKPV A 1.8s 230.0nm
21.	ePKIKP A	02 49 33	Solomon Islands 6.67 S 154.66 E
			H = 02 30 30.1 h = 33.0 km
			D = 126.47 Az = 332 (NEIS)
21.	+iPKIKP AB	02 57 57	Solomon Islands 6.91 S 155.33 E
	+i A	58 10.5	H = 02 39 01.2 h = 95.0 km MB =6.1
	ePP B	59 54	D = 126.99 Az = 332 (NEIS)
	eSKP B	03 01 11	PKIKPV A 1.7s 340.0nm
	ePcPPKP A	11 07	PPV B 18 4.5/um M = 6.1
	LmV B	57.7	LmH B 20.5 28.7/um
	LmH B	57.8	LmV B 20 30.4/um
21.	ePKIKP A	03 36 28	Solomon Islands 6.99 S. 154.34 E
			H = 03 17 29.4 h = 61.1 km MB = 5.4
			D = 126.60 Az = 331 (NEIS)
			traces
21.	ePKIKP A	04 28 58	Solomon Islands 7.03 S 154.63 E
			H = 04 09 54.8 h = 33.0 km MB = 5.4
			D = 126.77 Az = 331 (NEIS)
21.	ePKIKP A	04 40 08.5	Solomon Islands 6.95 S 154.62 E
			H = 04 21 05.3 h = 28.3 km MB = 5.2
			D = 126.70 Az = 331 (NEIS)

Day	Phase	h m s	Remarks
21.	eP A	13 36 32	Eastern Gulf of Aden 13.70 N 51.54 E
	ePP A	38 26	H = 13 27 44.9 h = 33.0 km MB=4.8 MS=5.9
	eS C	43 35	D = 49.01 Az = 327 (NEIS)
	eSS C	47 20	PV A 2.0s 34.2nm M = 5.0
	LmH B	14 01.9	PPV A 1.7 30.3nm 5.0
	LmV B	01.9	LmH B 14.5 0.7/um 4.8
			LmV B 15 0.7/um 4.8
21.	LmH C	22 40.4	LmH C 18s 0.25/um
	LmV C	46.0	LmV C 18 0.35/um
21.	ePKIKP A	24 02 20	Solomon Islands 6.65 S 154.61 E
	LmH C	58.3	H = 23 43 17.8 h = 35.9 km MB = 5.5
	LmV C	58.5	D = 126.42 Az = 332 (NEIS)
			LmH C 24s 0.4/um M = 5.0
			LmV C 22 0.5/um 5.1
22.	ePKIKP A	03 31 55.5	Solomon Islands 7.10 S 155.09 E
	LmH C	04 29.4	H = 03 12 54.3 h = 44.8 km MB=5.1 MS=4.9
	LmV C	31.7	D = 127.04 Az = 332 (NEIS)
			LmH C 19s 0.5/um M = 5.2
			LmV C 20 0.6/um 5.3
22.	ePKIKP A	05 09 16	Solomon Islands 6.37 S 154.99 E
			H = 04 50 19.5 h = 73.3 km MB = 5.5
			D = 126.36 Az = 332 (NEIS)
22.	eP A	08 10 22	North Atlantic Ridge 21.54 N 45.84 W
			H = 08 01 06.2 h = 33.0 km MB = 4.3
			D = 53.11 Az = 42 (NEIS)
			traces
22.	ePKHKP A	12 32 39	Fiji Islands Region 21.04 S 178.64 W
			H = 12 13 53.7 h = 571.9 km MB = 4.5
			D = 149.37 Az = 347 (NEIS)
22.	ePKIKP A	13 50 39.5	Solomon Islands 6.34 S 154.96 E
			H = 13 31 43.1 h = 67.8 km MB = 5.5
			D = 126.32 Az = 332 (NEIS)

Day	Phase	h m s	Remarks
22.	ePKIKP AB	19 39 16.5	Solomon Islands 7.21 S 155.72 E
	ePP AB	41 15	H = 19 20 13.8 h = 35.8 km MB=5.7 MS=6.1
	e B	42 32	D = 127.43 Az = 332 (NEIS)
	eSPP B	52 52	PKIKPV A 2.2s 120.0nm
	eSS C	58 32	PPV A 2.0 85.5nm M = 5.6
	LmH B	20 38.9	PPV B 12 1.0/um 5.9
	LmV B	39.1	LmH B 20 3.5/um 6.0
			LmV B 18.5 3.5/um 6.1
23.	ePKP A	02 18 05	Tonga Islands 17.32 S 175.27 W
			H = 01 58 54.0 h = 258.3 km MB = 4.8
			D = 146.30 Az = 352 (NEIS)
23.	e A	02 44 06.5	North Atlantic Ridge 23.24 N 45.07 W
			H = 02 34 55.1 h = 33.0 km MB=4.7 MS=3.9
			D = 51.38 Az = 43 (NEIS)
23.	eP A	03 14 01.5	Burma 26.51 N 96.39 E
	LmH B	42.9	H = 03 03 11.6 h = 33.0 km MB=5.2 MS=4.7
	LmV B	47.7	D = 66.78 Az = 316 (NEIS)
			PV A 1.4s 41.9nm M = 5.3
			LmH B 19 1.3/um 5.2
			LmV B 16 0.8/um 5.1
23.	e A	18 01 31.5	Solomon Islands 7.22 S 154.88 E
	LmH C	19 01.6	H = 17 42 15.1 h = 35.2 km MB = 5.1
	LmV C	01.6	D = 127.05 Az = 332 (NEIS)
			LmH C 21s 0.45/um M = 5.1
			LmV C 20 0.4/um 5.1
23.	eP A	23 01 06.5	Algeria 36 1/2 N 4 E
			H = 22 57 26 (BCIS)
			D = 15.23
			traces
23.	ePKIKP A	23 41 49	Solomon Islands 7.23 S 155.08 E
	LmH B	24 37.8	H = 23 22 43.8 h = 42.3 km MB=5.6 MS=5.7
	LmV B	39.8	D = 127.15 Az = 332 (NEIS)
			PKIKPV A traces

Day	Phase	h m s	Remarks
cont. 23.			LmH B 16s 0.9/um M = 5.5
			LmV B 17 0.7/um 5.4
24.	e(Pn) A	13 07 18.5	GDR-Poland Border Region 51.1 N 14.95 E
	e(Sg) A	07 58	H = 13 06 32
			D = 2.16 Az = 259 (ISC)
24.	ePKIKP A	19 20 27	South of Fiji Islands 23.48 S 179.78 W
	ePKHKP A	20 32.5	H = 19 01 42.6 h = 579.0 km MB = 5.6
	iPKP2 A	20 44	D = 151.46 Az = 345 (NEIS)
	epPKP A	22 48	PKHKPV A 1.1s 26.2nm
			pPKPV A 1.6 · 38.5nm
25.	ePKP A	07 19 09	Fiji Islands Region 18.31 S 176.84 E
	e A	19 16	H = 06 59 31.7 h = 37.8 km MB = 4.7
			D = 145.65 Az = 343 (NEIS)
25.	+eiP AB	10 52 04	Alaska Peninsula 55.06 N 160.38 W
	ei AB	52 19	H = 10 40 25.0 h = 16.6 km MB=5.8 MS=5.2
	eS B	11 01 36	D = 74.46 Az = 5 (NEIS)
	LmH B	28.0	PV A 1.2s 171.0nm M = 6.0
	LmV B	32.0	SH traces
			LmH B 20 0.8/um 5.0
			LmV B 19 1.0/um 5.2
25.	ePKP A	11 45 31	Fiji Islands Region 17.96 S 176.35 E
	e A	45 36	H = 11 25 54.2 h = 47.2 km MB = 4.8
			D = 145.18 Az = 343 (NEIS)
25.	eP AB	19 20 35	Greece 38.41 N 21.85 E
	e A	20 40.5	H = 19 17 11.9 h = 37.5 km MB=4.7 MS=5.4
	LmH B	26.7	D = 14.23 Az = 333 (NEIS)
	LmV B	26.7	PV A 1.0s 15.7nm M = 4.6
			LmH B 13 2.3/um 4.5
			LmV B 12 2.5/um
25.	eP A	22 59 46.5	Off Coast of Hokkaiodo, Japan
			42.93 N 146.93 E

Day	Phase		h m s	Remarks
cont.				
25.	LmH	B	23 38.0	H = 22 47 45.5 h = 42.5 km MB=4.9 MS=4.1
	LmV	B	40.8	D = 79.00 Az = 333 (NEIS)
				PV A 1.2s 16.3nm M = 4.9
				LmH B 17 0.35/um 4.7
				LmV B 17 0.45/um 4.9
27.	eP	A	11 53 04.5	Mediterranean Sea 33.10 W 13.68 E
	LmH	B	12 02.5	H = 11 49 00.6 h = 33.0 km MB = 3.9
	LmV	B	03.1	D = 17.59 Az = 356 (NEIS)
				PV A 1.3s 21.8nm M = 4.1
				LmH B 13.5 0.7/um 4.1
				LmV B 13 0.4/um 4.1
28.	eP	A	03 13 39	Molucca Sea 0.05 S 125.02 E
	e	A	16(58)	H = 02 59 46.7 h = 148.9 km MB = 5.5
	e	A	17 20	D = 104.69 Az = 323 (NEIS)
	ePP	A	17 55	LmH/V traces
	e	C	27.9	
	LmH	B	04 00.7	
	LmV	B	04.9	
28.	ePKIKP	A	05 27 09	Fiji Islands Region 20.41 S 178.59 W
	eiPKHKP	A	27 13.5	H = 05 08 32.1 h = 609.3 km MB = 5.0
	ePKP2	A	27 19.5	D = 148.76 Az = 347 (NEIS)
				PKIKPV A traces
				PKHKPV A 1.6s 44.0nm
28.	ePKIKP	A	09 03 56.5	Solomon Islands 6.93 S 154.34 E
	e	A	04 10	H = 08 44 55.3 h = 38.2 km MB=5.7 MS=5.7
	ePP	AB	05 51.5	D = 126.64 Az = 331 (NEIS)
	e	B	15 35	XV A 2.0s 55.6nm
	e	B	18 32	LmH B 20 1.3/um M = 5.6
	LmH	B	54.8	LmV B 18 1.0/um 5.6
	LmV	B	10 04.3	
28.	e	A	09 16 48	Spain 38.59 N 0.75 E
				H = 09 13 18.4 h = 33.0 km MB = 4.5
				D = 14.30 Az = 29 (NEIS)

Day	Phase		h m s	Remarks
28.	eP	A	11 08 46.5	Dodecanese Islands 35.85 N 27.32 E
				H = 11 04 28.9 h = 33.0 km MB = 4.1
				D = 18.63 Az = 327 (NEIS)
28.	eP	A	12 40 05	Kirgiz SSR 39.21 N 72.47 E
	ePP	A	41 50.5	H = 12 32 03.3 h = 47.0 km MB = 5.2
	e	A	42 00	D = 43.41 Az = 306 (NEIS)
	LmH	B	13 00.6	PV A 1.8s 47.3nm M = 4.9
	LmV	B	02.3	LmH B 14 0.5/um 4.6
				LmV B 12 0.9/um 5.0
28.	eP	A	15 39 06	Gulf of California 25.38 N 109.62 W
	LmH	B	16 18.7	H = 15 26 17.9 h = 33 km MB = 5.2 (NEIS)
	LmV	B	19.7	D = 88.3
				LmH B 15s 0.5/um M = 5.1
				LmV B 16 0.9/um 5.3
28.	eP	A	17 04 45	Gulf of California 25.37 N 109.69 W
				H = 16 51 53.9 h = 33.0 km MB = 4.9
				D = 88.32 Az = 33 (NEIS)
28.	ePKIKP	A	21 44 05	Solomon Islands 6.80 S 154.63 E
	LmV	B	22 41.2	H = 21 25 04.7 h = 36.9 km MB = 5.3
	LmH	B	44.2	D = 126.56 Az = 332 (NEIS)
				PKIKPV A 1.7s 18.2nm
				LmH B 19 0.4/um M = 5.1
				LmV B 20 0.5/um 5.2
29.	eP	A	02 00 21	Off Coast of Oregon 43.69 N 126.10 W
				H = 01 48 16.2 h = 33.0 km MB=5.2 MS=3.8
				D = 79.10 Az = 26 (NEIS)
29.	-iP	AB	02 50 00	Kashmir-Tibet Border Region
	ePP	B	52 00	32.56 N 78.46 E
	eS	B	57 20	H = 02 40 58.2 h = 50.6 km MB = 5.5
	eSS	B	03 00 56	D = 51.36 Az = 311 (NEIS)
	LmH	B	10.4	PV A 2.0s 162.0nm M = 5.7
	LmV	B	13.9	LmH B 15 1.7/um
				LmV B 12 1.0/um

Day	Phase		h m s	Remarks
29.	eP	A	13 33 50	Pakistan 25.20 N 63.05 E
	e	A	33 59	H = 13 25 21.8 h = 33.0 km MB=5.4 MS=4.9
	eS	C	40 40	D = 46.68 Az = 317 (NEIS)
	eSS	C	44.5	PV A 1.5s 37.8nm M = 5.1
	LmV	B	13 57.6	LmH B 14.5 0.4/um 4.5
	LmH	B	14 01.5	LmV B 16 0.4/um 4.6
29.	+eP	A	14 12 18.5	Kurile Islands 46.62 N 151.49 E
				H = 14 00 32.4 h = 83.0 km MB = 5.2
				D = 77.11 Az = 335 (NEIS)
				PV A 2.0s 51.3nm M = 5.1
29.	eP	A	15 11 27	Crete 34.86 N 24.94 E
	e	A	11 34.5	H = 15 07 12.3 h = 46.8 km MB = 4.7
	eS	A	14 49.5	D = 18.51 Az = 332 (NEIS)
	e	C	14 55	LmH B 16s 1.9/um M = 4.5
	LmH	B	18.0	LmV B 13 1.3/um 4.6
	LmV	B	19.3	
29.	eP	A	16 14(55)	Crete 34.89 N 25.56 E
				H = 16 10 35.9 h = 44.2 km MB = 4.0
				D = 18.73 Az = 331 (NEIS)
				traces
29.	eP	A	20 16 21	Albania 41.47 N 19.30 E
	e(S)	A	19 01	H = 20 13 48.2 h = 53.7 km MB = 3.8
				D = 10.61 Az = 332 (NEIS)
29.	eP	A	21 23 25	North of Ascension Island
	LmH	B	46.3	1.28 S 15.09 W
	LmV	B	49.4	H = 21 13 44.7 h = 33.0 km MB = 5.0
				D = 56.53 Az = 20 (NEIS)
				PV A 1.9s 37.9nm M = 5.1
				LmH B 16.5 0.6/um 4.8
				LmV B 16 0.5/um 4.8
29.	eP	A	22 23 39	Albania 41.56 N 19.30 E
	e	A	25 46	H = 22 21 08.1 h = 47.8 km MB = 3.9
	e(S)	A	26 19	D = 10.53 Az = 332 (NEIS)

Day	Phase		h m s	Remarks
cont. 29.	LmH	B	22 27.1	LmH B 16s 0.9/um M = 3.8
	LmV	B	28.1	LmV B 16 0.5/um
30.	ePKP	A	09 35 50.5	Timor 10.00 S 123.80 E
	ePP	A	36 36	H = 09 17 12.9 h = 16.0 km
	e	A	39 23	MB = 5.6 MS = 6.1 (NEIS)
	eSKS	B	42 44	D = 111.7
	e	B	44 08	PKPV A 2.0s 47.0nm
	LmH	B	10 23.6	LmH B 24.5 11.4/um M = 6.4
	LmV	B	32.4	LmV B 22 4.9/um 6.1
30.	ePKP	A	10 42 17.5	Timor 9.80 S 123.80 E
	ePP	A	42 56	H = 10 23 40.8 h = 18.7 km MB = 5.5
				D = 111.55 Az = 321 (NEIS)
30.	eP	AB	16 29 33	Turkey 39.47 N 32.10 E
	eS	B	33 08	H = 16 25 19.7 h = 20.1 km MB = 4.6
	LmH	B	36.4	D = 18.21 Az = 315 (NEIS)
	LmV	B	37.7	PV A 2.0s 72.6nm M = 4.5
				LmH B 13 1.7/um 4.5
				LmV B 11 1.5/um 4.7
31.	ePKHKP	A	03 53 50.5	Fiji Region 21.7 S 177.0 W
				H = 03 34 24 h = 209 km
				D = 150.31 Az = 349 (ISC)
				traces
31.	ePKP	A	08 58 34.5	Tonga Islands 15.87 S 173.01 W
	LmV	B	10 10.5	H = 08 38 57.3 h = 25.0 km MB = 5.2
	LmH	B	12.0	D = 145.11 Az = 355 (NEIS)
				PKPV A 1.5s 15.1nm
				LmV B 15 0.15/um M = 4.8
31.	eP	A	11 15 05.5	Tadzhik SSR 39.71 N 70.60 E
	e	A	16 29.5	H = 11 07 14.9 h = 39.7 km MB = 4.9
	ePP	A	16 47.5	D = 41.95 Az = 305 (NEIS)
	LmH	B	34.9	LmH B 12s 0.3/um M = 4.5
	LmV	B	36.5	LmV B 12 0.6/um 4.8

Day	Phase		h m s	Remarks
31.	LmH	B	16 23.3	Sumbawa Island Region 9.68 S 117.19 E
	LmV	B	34.0	H = 15 17 38.8 h = 51.8 km MB=5.5 MS=5.4
				D = 107.29 Az = 320 (NEIS)
				LmH B 22s 1.2/um M = 5.4
				LmV B 19 0.6/um 5.2
31.	ePKIKP	A	16 43 28	New Britain Region 5.22 S 152.77 E
	e	A	43 38.5	H = 16 24 32.5 h = 52.7 km MB=5.7 MS=5.8
	ePP	A	45 14.5	D = 124.29 Az = 331 (NEIS)
	e	A	45 21	PKIKPV A 1.2s 26.4nm
	LmV	B	17 40.8	LmH B 20 1.0/um M = 5.5
	LmH	B	42.7	LmV B 20 0.9/um 5.4
31.	ePg	A	23 26 05	France 48.74 N 7.79 E
	eSg	A	26 44	H = 23 25 02.8 h = 11.5 km
				D = 3.13 Az = 51 (NEIS)

Day	Phase		h m s	Remarks
1.	eP	A	04 05 53.5	Kurile Islands 48.32 N 154.74 E
				H = 03 54 05.2 h = 33.0 km MB = 4.8
				D = 76.45 Az = 337 (NEIS)
1.	eP	A	16 39 37	Northern California 39.44 N 121.54 W
				H = 16 27 17.8 h = 5.0 km MB=4.8 MS=3.2
				D = 81.33 Az = 28 (NEIS)
				PV A 1.3s 8.7nm M = 4.7
1.	eP	A	17 14 53	Off East Coast of Kamchatka
				51.67 N 159.12 E
				H = 17 03 16.7 h = 33.0 km MB = 5.0
				D = 74.40 Az = 339 (NEIS)
				PV A 1.5s 17.6nm M = 4.8
1.	+eP	AB	20 32 30.5	Northern California 39.44 N 121.53 W
	ePP	AB	35 34	H = 20 20 12.9 h = 15.0 km MB=5.8 MS=5.6
	eS	B	42 44	D = 81.33 Az = 28 (NEIS)
	ePS	B	43 28	PV A 1.6s 154.0nm M = 5.8
	eSS	C	48.5	PV B 6 1.3/um 6.1
	LmH	B	21 06.8	LmH B 18 7.1/um 6.1
	LmV	B	11.0	LmV B 16 7.3/um 6.2
1.	ePKP	A	23 43 52	Tonga Islands 15.64 S 173.75 W
	e	A	44 29.5	H = 23 24 24.7 h = 83.0 km MB = 4.9
				D = 144.82 Az = 354 (NEIS)
				PKPV A 1.3s 30.6nm
2.	ePKIKP	A	02 03 59	South of Fiji Islands 22.04 S 179.48 W
	iPKHKP	A	04 04.5	H = 01 45 18.5 h = 575.6 km MB = 5.3
	ePKP2	A	04 12.5	D = 150.15 Az = 346 (NEIS)
				PKHKPV A 1.0s 51.2nm
				PKP2V A 1.4 30.2nm
2.	-eiP	AB	10 30 04	South of Alaska 53.39 N 161.49 W
	ePP	B	32 53	H = 10 18 17.9 h = 33.0 km MB=6.2 MS=6.0
	iS	B	39 48	D = 76.18 Az = 5 (NEIS)
	eiScS	B	40 16	PV A 1.4s 651.0nm M = 6.4
	eSS	C	44 55	PV B 8 4.6/um 6.6

Day	Phase		h m s	Remarks
cont. 2.	eP'P'	A	10 57 18	PPV B 8s 2.0/um M = 6.3
	LmH	B	11 07.4	SH B 10 6.9/um 6.7
	LmV	B	16.0	P'P' A traces
				LmH B 21 12.7/um 6.2
				LmV B 17 8.5/um 6.2
2.	LmH	B	18 06.0	Gulf of California 23.89 N 108.90 W
	LmV	B	09.0	H = 17 15 06.1 h = 33 km MB = 5.0 (ISC)
				D = 89.1
				LmH B 17s 0.5/um M = 5.0
				LmV B 16 0.6/um 5.2
2.	+eP	A	20 34 34.5	Northern California 39.45 N 121.46 W
	LmH	B	21 12.8	H = 20 22 16.3 h = 4.0 km MB=5.3 MS=4.5
	LmV	B	12.9	D = 81.30 Az = 28 (NEIS)
				PV A 1.7s 48.5nm M = 5.3
				LmH B 16 0.5/um 5.0
				LmV B 17 0.6/um 5.0
2.	+iP	AB	21 11 22	Northern California 39.41 N 121.71 W
	LmH	B	49.8	H = 20 59 02.7 h = 5.0 km MB=5.2 MS=4.7
	LmV	B	49.8	D = 81.43 Az = 28 (NEIS)
				PV A 1.9s 72.0nm M = 5.4
				LmH B 16 0.5/um 5.0
				LmV B 16 0.5/um 5.0
2.	ePn	A	21 13 29	Yugoslavia 43.67 N 17.40 E
	e	A	15 25	H = 21 11 32.9 h = 33.0 km MB = 4.9
	eSg	A	16 02	D = 8.02 Az = 333 (NEIS)
				PnV A 1.2s 13.1nm M = 4.9
3.	eP	A	01 15 22.5	Northern California 39.49 N 121.52 W
				H = 01 03 05.8 h = 8 km MB = 5.0 (NEIS)
				D = 81.3
				PV A 1.2s 12.2nm M = 4.9
3.	eP	A	06 47 48	Central California 36.46 N 120.35 W
	LmH	B	07 27.3	H = 06 35 16.5 h = 5.0 km MB=5.1 MS=4.0

Day	Phase		h m s	Remarks
cont. 3.	LmV	B	07 27.5	D = 83.51 Az = 28 (NEIS)
				PV A 1.9s 30.3nm M = 5.2
				LmH B 17 0.3/um 4.7
				LmV B 16 0.3/um 4.8
3.	LmH	B	11 04.3	Leeward Islands 19.67 N 63.17 W
	LmV	B	13.6	H = 10 35 01.5 h = 35.0 km MB=5.2 MS=4.7
				D = 65.45 Az = 42 (NEIS)
				LmH B 20s 0.35/um M = 4.6
3.	eP	B	12 13 06	Near Coast of Peru 15.65 S 75.11 W
	e	A	13 16	H = 11 59 20.7 h = 15.1 km MB=5.3 MS=5.9
	ePP	B	17 10	D = 99.88 Az = 40 (NEIS)
	eSKS	B	23 48	LmH B 17.5s 3.3/um M = 5.9
	eS	B	24 44	LmV B 17 4.7/um 6.1
	ePS	B	26 12	
	eSS	C	31 49	
	eSSS	C	35 16	
	LmH	B	13 01.9	
	LmV	B	03.8	
3.	e(PKHKP)	A	13 51 25	West of Macquarie Island 52.39 S 139.93 E
				H = 13 31 35.6 h = 33.0 km
				D = 148.35 Az = 288 (NEIS)
4.	eP	A	08 31 59	Southern Sinkiang Prov., China
	e	A	32 02.5	39.45 N 74.08 E
	LmH	B	51.4	H = 08 23 54.0 h = 61 km MB = 4.9 (NEIS)
	LmV	B	53.6	D = 44.3
				LmH B 20s 0.35/um
				LmV B 18 0.3/um
4.	eP	A	19 02 53	Kurile Islands Region 48.86 N 156.15 E
	e	A	03 06	H = 18 51 05.4 h = 33.0 km MB = 4.7
				D = 76.32 Az = 338 (NEIS)
				PV A 1.1s 12.1nm M = 4.8

Day	Phase		h m s	Remarks
4.	eP	A	19 11 47.5	Kurile Islands 46.09 N 150.85 E
				H = 18 59 54.8 h = 33.0 km MB = 4.9
				D = 77.40 Az = 335 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
4.	epP	A	23 32 46.5	Volcano Islands Region 23.47 N 142.80 E
	LmV	B	24 17.5	H = 23 19 18.3 h = 90.0 km MB = 4.8
	LmH	B	18.5	D = 94.56 Az = 331 (NEIS)
				LmH B 20s 0.35/um
				LmV B 22 0.55/um
5.	ePKIKP	A	03 13 39	Solomon Islands 6.58 S 155.08 E
				H = 02 54 38.9 h = 55.5 km MB = 4.9
				D = 126.58 Az = 332 (NEIS)
5.	ePKIKP	A	04 58 37	New Britain Region 5.16 S 151.72 E
				H = 04 39 50.6 h = 138.3 km MB = 5.0
				D = 123.74 Az = 331 (NEIS)
6.	e(PP)	A	01 01 41	Eastern Caucasus 40.72 N 48.61 E
	LmH	B	14.0	H = 00 54 58.7 h = 20 km MB = 4.4 (NEIS)
	LmV	B	14.6	D = 27.4
				LmH B 14s 0.4/um M = 4.1
				LmV B 16 0.4/um 4.2
6.	eP	A	04 02 46.5	Northern California 39.48 N 121.52 W
				H = 03 50 29.9 h = 7 km
				MB = 5.1 MS = 4.0 (NEIS)
				D = 81.3
				PV A 1.5s 15.1nm M = 4.9
6.	LmH	B	09 38.8	Easter Islands Region 29.74 S 110.93 W
	LmV	B	39.0	H = 08 22 09.1 h = 33 km MB = 4.3 (ISC)
				D = 132.3
				LmH B 16s 0.2/um M = 4.9
				LmV B 18 0.25/um 4.9

Day	Phase		h m s	Remarks
6.	ePKP	A	17 32 40	New Hebrides Islands 17.92 S 168.44 E
				H = 17 13 27.3 h = 144.3 km MB = 5.2
				D = 142.47 Az = 336 (NEIS)
				PKPV A 1.0s 9.8nm
6.	+eP	AB	18 09 15	North Atlantic Ridge 33.77 N 39.27 W
	ePP	B	11 00	H = 18 01 39.1 h = 33.0 km MB=5.4 MS=5.7
	e	A	11 12.5	D = 40.43 Az = 50 (NEIS)
	eS	B	15 28	PV A 1.9s 106.0nm M = 5.3
	iSS	C	18 36	PV B 11 0.8/um 5.4
	LmH	B	23.2	PPV B 9 0.8/um 5.5
	LmV	B	25.2	SH B 15 1.6/um 5.6
				LmH B 18 3.5/um 5.3
				LmV B 14 3.4/um 5.5
6.	ePKIKP	A	20 33 52.5	Fiji Islands Region 20.55 S 179.04 W
	ePKHKP	A	33 57.5	H = 20 15 20.4 h = 649.5 km MB = 4.7
	ePKP2	A	34 03.5	D = 148.81 Az = 347 (NEIS)
6.	-iP	AB	21 48 59.5	Eastern Sea of Japan 43.90 N 139.26 E
				H = 21 37 39.7 h = 229.7 km MB = 5.6
				D = 75.42 Az = 329 (NEIS)
				PV A 1.2s 146.0nm M = 5.6
6.	ePKIKP	AB	22 43 19	Admiralty Islands Region 2.47 S 146.04 E
	ePP	AB	44 40	H = 22 24 31.2 h = 33.0 km MB=6.2 MS=6.3
	eS diff	C	52 28	D = 118.58 Az = 329 (NEIS)
	e	B	54 32	PPV A 2.2s 120.0nm M = 6.2
	eSS	C	23 00 55	LmH B 24.5 12.9/um 6.5
	eSSS	C	05.0	LmV B 19 6.5/um 6.3
	eLR	C	12 20	
	LmH	B	24.6	
	LmV	B	36.0	
7.	ePKP	A	01 14 46	Fiji Islands Region 17.76 S 178.67 W
				H = 00 56 05.6 h = 534 km MB = 4.8 (NEIS)
				D = 146.2
				PKPV A 1.5s 25.1nm

Day	Phase		h m s	Remarks
7.	+iP	A	04 04 46.5	Eastern Kazakh SSR 49.81 N 78.24 E
	ePn	A	06 18	H = 03 56 57.5 h = 0.0 km MB = 5.2
				D = 41.31 Az = 298 (NEIS)
				PV A 0.8s 53.8nm M = 5.3
				Underground explosion MB = 5.3 (UPP)
7.	ePKIKP	A	13 47 02	West Irian 3.79 S 139.74 E
	ePP	A	48 27	H = 13 28 24.2 h = 64.6 km MB = 5.6
	LmH	B	14 41.0	D = 116.29 Az = 326 (NEIS)
	LmV	B	41.2	PKIKPV A traces
				LmH B 19s 0.6/um
				LmV B 18 0.6/um
7.	eP	A	15 34 30	Strait of Gibraltar 36.36 N 4.37 W
	epP	A	34 49	H = 15 30 22.9 h = 99.0 km MB = 5.2
	e	B	40 20	D = 18.34 Az = 34 (NEIS)
	LmH	B	42.7	PV A traces
	LmV	B	42.7	pPV A 1.8s 43.9nm
				LmH B 15 0.4/um
				LmV B 15 0.5/um
7.	e(Pg)	A	20 22 13	
	eSg	A	22 52	
7.	ePKIKP	AB	20 30 51.5	South of Fiji Islands 22.84 S 178.91 E
	iPKHKP	AB	30 58.5	H = 20 12 15.2 h = 625.7 km MB = 5.4
	ePKP2	AB	31 04.5	D = 150.52 Az = 343 (NEIS)
	epPKP	A	33 21	PKIKPV A 1.5s 45.4nm
				PKHKPV A 1.4 214.0nm
7.	eP	A	22 51 04	Ethiopia 15.29 N 40.41 E
				H = 22 43 13.3 h = 36.6 km MB = 4.6
				D = 42.22 Az = 333 (NEIS)
8.	ePKIKP	A	00 58 28	Solomon Islands 6.29 S 154.74 E
	LmH	B	01 56.9	H = 00 39 28.5 h = 33.0 km MB=5.3 MS=5.3
	LmV	B	57.2	D = 126.17 Az = 332 (NEIS)
				LmH B 20s 0.4/um M = 5.0
				LmV B 20 0.4/um 5.1

Day	Phase		h m s	Remarks
8.	ePKIKP	A	00 58 28	Solomon Islands 6.29 S 154.74 E
	LmH	B	01 56.9	H = 00 39 28.5 h = 33.0 km MB=5.3 MS=5.3
	LmV	B	57.2	D = 126.17 Az = 332 (NEIS)
				LmH B 20s 0.4/um M = 5.0
				LmV B 20 0.4/um 5.1
8.	eP	A	01 13 34	Ascension Island Region 7.9 S 13.3 W
				H = 01 03 03 h = 0 km MB = 4.7
				D = 62.19 Az = 18 (ISC)
8.	e	A	04 34 46.5	Tonga 18.7 S 173.2 W
				H = 04 14 48.1 h = 33 km
				D = 147.86 Az = 354 (ISC)
8.	LmH	B	05 47.7	New Hebrides 13.47 S 166.78 E
	LmV	B	53.9	H = 04 40 21 h = 56 km MB = 4.9 (ISC)
				D = 137.8
				LmH B 20s 0.4/um
				LmV B 20 0.4/um
8.	eP	A	07 13 06.5	Northern California 39.50 N 121.51 W
				H = 07 00 50.1 h = 8.0 km MB = 5.0
				D = 81.27 Az = 28 (NEIS)
				PV A 1.5s 15.1nm M = 4.8
8.	ePKHKP	A	13 03 19.5	South of Fiji Islands 23.11 S 177.28 W
	ePKP2	A	03 28	H = 12 43 52.0 h = 239.2 km MB = 4.9
				D = 151.65 Az =348 (NEIS)
8.	ePKIKP	A	16 53 24	Solomon Islands 7.02 S 155.60 E
				H = 16 34 24.2 h = 61.5 km
				D = 127.22 Az = 332 (NEIS)
				traces
8.	eP	A	17 20 21	Taiwan Region 22.61 N 122.39 E
	e	A	20 34	H = 17 07 42.5 h = 14.8 km MB = 5.0
	e	A	20 44	D = 85.06 Az =323 (NEIS)
	e	A	21 36.5	PV A 1.4s 14.0nm M = 5.0

Day	Phase		h m s	Remarks
cont.				
8.	LmH	B	18 01.3	LmH B 15.5s 1.5/um M = 5.5
	LmV	B	03.8	LmV B 12 1.3/um 5.6
8.	eP	A	18 18 52.5	Near East Coast of Honshu, Japan
				36.04 N 140.28 E
				H = 18 06 34.1 h = 51.1 km MB = 4.6
				D = 82.57 Az = 330 (NEIS)
8.	ePKP	A	22 40 30	Tonga Islands 15.01 S 174.19 W
				H = 22 21 01.8 h = 74.0 km MB = 5.1
				D = 144.15 Az = 354 (NEIS)
9.	LmH	C	02 45.0	Near Coast of Peru 16.94 S 72.77 W
	LmV	C	45.0	H = 01 50 23.0 h = 54 km MB = 5.0 (ISC)
				D = 99.6
				LmH C 22s 0.3/um
				LmV C 20.5 0.3/um
9.	iPKP	AB	06 54 52	Loyalty Islands 20.82 S 168.54 E
	e	A	55 05	H = 06 35 12.1 h = 5.0 km MB = 5.3
				D = 145.13 Az = 334 (NEIS)
				PV A 1.4s 195.5nm
9.	eP	AB	07 48 50	Mindanao, Philippine Islands
	eSKS	C	59 20	9.50 N 126.24 E
	LmH	B	08 37.4	H = 07 35 16.7 h = 48.9 km MB = 5.3 MS=5.3
	LmV	B	37.5	D = 97.77 Az = 324 (NEIS)
				LmH B 20.5s 1.7/um M = 5.5
				LmV B 19.5 1.6/um 5.5
9.	e	A	08 48 03	Yugoslavia 44.8 N 17.0 E
	ePg	A	48 21	H = 08 46 08 (BCIS)
	eSn	A	49 02	D = 6.90
	eSg	A	49 52	
10.	eP	A	00 20 17	Near West Coast of Colombia 5.34 N 77.47 W
				H = 00 07 43.0 h = 50.4 km MB = 4.6
				D = 85.33 Az = 40 (NEIS)
				PV A 2.0s 25.6 nm M = 5.0

Day	Phase		h m s	Remarks
10.	eP	A	03 24 43	Near Islands, Aleutian Is.
				51.20 N 174.16 E
				H = 03 12 46.2 h = 16.9 km MB=5.1 MS=4.5
				D = 77.46 Az = 349 (NEIS)
				PV A 1.5s 25.1nm M = 5.1
10.	ePKIKP	A	04 29 43	Solomon Islands 7.04 S 154.84 E
	LmH	B	05 30.9	H = 04 10 38.9 h = 34.0 km MB = 5.1
	LmV	B	34.2	D = 126.87 Az = 332 (NEIS)
				LmH B 20s 0.4/um M = 5.1
				LmV B 20 0.25/um 4.9
10.	ePKIKP	A	07 14 04	South of Fiji Islands 22.53 S 179.28 W
	ePKHKP	A	14 10	H = 06 55 11.5 h = 466.6 km MB = 4.8
	ePKP2	A	14 19	D = 150.67 Az = 346 (NEIS)
10.	eP	AB	10 39 12	Jujuy Province, Argentina 22.65 S 66.59 W
	epP	AB	40 04	H = 10 25 43.3 h = 166.1 km MB = 6.2
	ePP	AB	43 15	D = 100.08 Az = 39 (NEIS)
	epPP	B	44 05	h c. 200 km
	iSKS	B	49 34	PV A 1.8s 60.8nm M = 5.8
	eS	B	50 30	pPV A 2.6 277.0nm
	eSP	B	51 51	PPV A 2.1 201.0nm 6.0
	ePKKP	A	55 25	PPV B 8 1.2/um 6.2
	e(pPKKP)	A	55 55	PKKPV A 1.6 44.0nm
	e	B	56 00	(pPKKP)VA 1.8 115.0nm
	eSS	C	57 28	LmH B 19 2.7/um
	eP'P'	A	11 03 37	LmV B 19 3.0/um
	LmH	B	20.9	
	LmV	B	21.0	
10.	eP	A	14 50 45	Kurile Islands Region 49.18 N 158.61 E
				H = 14 38 54.9 h = 33.0 km MB = 4.6
				D = 76.61 Az = 339 (NEIS)
10.	eP	AB	17 42 22.5	Philippine Islands Region
	ePP	AB	46 33	5.95 N 127.13 E
	eS	B	53 37	H = 17 28 42.9 h = 111.2 km MB = 5.6
	esS	B	54 36	D = 101.15 Az = 324 (NEIS)

Day	Phase	h m s	Remarks
cont.			
10.	LmH B	18 30.4	PV A 1.8s 47.3nm M = 5.9
	LmV B	32.6	PPV A 2.2 76.4nm 5.9
			LmH B 16.5 0.6/um
			LmV B 17 0.6/um
10.	ePKP A	20 45 04.5	Loyalty Islands Region 21.90 S 170.18 E
	e A	45 19	H = 20 25 27.8 h = 51.8 km
			D = 146.76 Az = 335 (NEIS)
			PKPV A 1.3s 13.1nm
10.	eP A	20 58 43.5	Sicily 38.67 N 15.56 E
			H = 20 55 52.1 h = 210.7 km MB = 4.5
			D = 12.29 Az = 348 (NEIS)
11.	ePKHKP A	02 51 03	South of Fiji 23.48 S 179.66 W
			H = 02 32 10.1 h = 545 km
			D = 151.50 Az = 345 (ISC)
11.	eP A	06 23 55	Northern California 39.45 N 121.48 W
			H = 06 11 36.3 h = 4.0 km MB=4.8 MS=3.8
			D = 81.31 Az = 28 (NEIS)
			traces
11.	LmH B	09 47.8	Off Coast of Southern Chile
	LmV B	48.5	45.7 S 75.2 W
			H = 08 36 44.9 h = 33 km MB = 5.0 (ISC)
			D = 121.7
			LmH B 18s 0.7/um M = 5.3
			LmV B 18 0.45/um 5.2
11.	LmV B	11 37.5	Near Coast of Peru 11.75 S 77.69 W
			H = 10 39 19.0 h = 78 km MB = 5.5
			D = 98.54 Az = 40 (ISC)
			LmV B 18s 0.4/um
11.	eP A	20 32 32.5	Turkey 35.99 N 31.40 E
			H = 20 27 58.3 h = 67.6 km
			D = 20.45 Az = 322 (NEIS)

Day	Phase	h m s	Remarks
11.	ePKHKP A	20 49 44	Fiji Islands Region 19.7 S 178.26 W
			H = 20 30 54.6 h = 501 km
			D = 148.15 Az = 348 (ISC)
12.	ePKHKP A	01 31 28.5	Tonga Islands 19.04 S 175.54 W
	ePKP2 A	31 31.5	H = 01 12 05.8 h = 196.8 km MB = 4.9
			D = 147.96 Az = 351 (NEIS)
			PKHKPV A 0.7s 19.1nm
12.	ePKP A	01 49 23.5	Tonga Islands 16.61 S 173.77 W
			H = 01 29 47.4 h = 42.8 km MB = 4.6
			D = 145.77 Az = 354 (NEIS)
12.	eP A	09 03 37.5	South of Honshu, Japan 31.97 N 138.10 E
	epP A	05 10	H = 08 51 41.3 h = 385.1 km MB = 4.6
			D = 85.15 Az = 329 (NEIS)
			h = 405 km
			pPV A 1.8s 33.8nm
12.	eP AB	14 32 58.5	South of Honshu, Japan 32.04 N 137.72 E
	epP AB	34 34	H = 14 21 04.7 h = 390.8 km MB = 5.7
	esP B	35 10	D = 84.92 Az = 329 (NEIS)
	ePP AB	36 27.5	h c. 400 km
	eiS B	42 44	PV B 5s 2.0/um M = 6.2
	ePS B	44 48	PV A 2.0 299.0nm 5.7
	esS B	45 28	pPV A 1.6 99.0nm
	eSS B	48 26	pPPV B 5 1.3/um
	esSS B	51 00	PPV A 1.7 188.0nm 5.9
	eSSS B	52 28	SH B 14 12.5/um 6.3
	eSSSS C	55 15	LmH B 18.5 7.8/um
	LmH B	15 09.1	LmV B 16.5 5.7/um
	LmV B	16.3	
12.	eiP A	15 08 59	Central Siberia 70.77 N 127.15 E
			H = 15 00 02.3 h = 33.0 km MB = 5.2
			D = 50.46 Az = 312 (NEIS)
			PV A 0.8s 46.1nm M = 5.5

Day	Phase		h m s	Remarks
12.	eP	A	16 10 30	Turkey 36.96 N 31.02 E
				H = 16 06 09.0 h = 110.8 km MB = 3.9
				D = 19.49 Az = 321 (NEIS)
				PV A 1.3s 15.3nm M = 4.2
13.	ePKHKP	A	01 02 16	Tonga Islands 21.00 S 174.54 W
				H = 00 42 36.3 h = 109.3 km MB = 4.8
				D = 150.02 Az = 352 (NEIS)
				PKHKPV A 1.4s 37.2nm
13.	eP	A	03 37 29	Kurile Islands 50 N 155 E
				H = 03 25 49 MB = 3.8 (NORSAR)
				D = 74.9
13.	eP	A	10 11 46	Iceland Region 66.15 N 17.59 W
	LmV	B	21.4	H = 10 06 57.7 h = 33.0 km MB = 4.4
	LmH	B	21.5	D = 21.49 Az = 122 (NEIS)
				LmH B 14s 0.4/um M = 3.9
				LmV B 16 0.3/um 3.9
13.	eP	A	23 19 57	Guatemala 14.53 N 89.88 W
				H = 23 07 43.5 h = 255.6 km MB = 4.7
				D = 86.02 Az = 39 (NEIS)
14.	eP	A	03 59(37)	Egypt 28.1 N 31.1 E
	e	A	59 40	H = 03 53 56 h = 23 km
	e	A	59 47	D = 26.90 Az = 332 (ISC)
14.	ePKIKP	A	15 11 49.5	Fiji Islands Region 19.95 S 178.66 W
	ePKHKP	A	11 55	H = 14 53 15.8 h = 608.6 km MB = 5.0
	ePKP2	A	12 00.5	D = 148.31 Az = 348 (NEIS)
	epPKP	A	14 16	PKHKPV A 1.6s 49.5nm
				PKP2V A 1.1 20.2nm
14.	+iPKIKP	A	18 03 17.3	East Papua New Guinea Region
	e	A	03 36	6.88 S 147.70 E
	LmH	B	55.6	H = 17 44 23.8 h = 44.1 km MB=5.8 MS=5.5
	LmV	B	57.5	D = 123.17 Az = 328 (NEIS)

Day	Phase		h m s	Remarks
cont. 14.				PKIKPV A 1.7s 42.5nm
				LmH B 18 0.8/um M = 5.4
				LmV B 23 0.9/um 5.4
14.	eP	AB	18 21 43	Near East Coast of Honshu, Japan
	e	A	22 01	37.10 N 141.01 E
	e(S)	B	32 16	H = 18 09 27.6 h = 52.0 km MB = 5.5
				D = 81.94 Az = 330 (NEIS)
				PV A 1.5s 75.4nm M = 5.5
15.	eP	A	03 53 42	Near East Coast of Kamchatka
	LmV	C	04 23.3	54.22 N 161.22 E
	LmH	C	23.5	H = 03 42 17.0 h = 33.0 km MB=5.0 MS=4.0
				D = 72.44 Az = 340 (NEIS)
				PV A 1.2s 24.4nm M = 5.1
15.	-eP1	ABC	07 39 51	Komandorsky Islands Region
	eP2	A	39 54.5	54.88 N 167.85 E
	eP3	A	40 02	H = 07 28 18.9 h = 4.3 km MB=6.0 MS=6.6
	ePP	BC	42 32	D = 72.99 Az = 344 (NEIS)
	eiS	B	49 16	P1V C 11 6.7/um M = 6.7
	eSS	B	53 52	P3V A 2.0s 1017.1nm 6.6
	LmH	B	08 14.6	PPV C 12 5.6/um 6.8
	LmV	B	18.4	LmH B 16.5 30.9/um 6.7
				LmV B 14 30.4/um 6.8
15.	eP	A	08 59 18.5	Komandorsky Islands Region
				54.88 N 167.77 E
				H = 08 47 50.8 h = 40.3 km MB = 4.8
				D = 72.97 Az = 344 (NEIS)
15.	ePKP	A	15 52 02.5	Tonga Islands 15.94 S 174.97 W
				H = 15 32 47.2 h = 200.4 km MB = 3.9
				D = 144.97 Az = 353 (NEIS)
				PKPV A 1.2s 12.2nm
16.	+iPn	A	00 33 09.6	Yugoslavia 46.22 N 14.52 E
	ePg	A	33 30	H = 00 31 58.0 h = 47.9 km
	iSn	A	34 11.5	D = 4.83 Az = 337 (NEIS)

Day	Phase	h m s	Remarks
cont.			
16.	eiSg A	00 34 29	PnV A 0.8s 34.6nm
16.	eP A	01 06 53.5	Northern Peru 5.38 S 76.08 W
	epP A	07 25	H = 00 53 53.7 h = 123.0 km MB = 5.7
	e C	17 15	D = 92.65 Az = 40 (NEIS)
	ePS C	18 15	PV A 1.7s 78.8nm M = 5.7
	eSS C	24 12	
16.	ePKIKP A	07 42 52	Fiji Islands Region 21.19 S 179.04 W
	iPKHKP A	42 58	H = 07 24 17.4 h = 631.0 km MB = 5.6
	iPKP2 A	43 05.5	D = 149.43 Az = 347 (NEIS)
	epPKP A	45 28	PKIKPV A 1.0s 34.9nm
			PKHKPV A 1.3 218.0nm
			PKP2V A 1.3 131.0nm
16.	ePKP2 A	21 46 06	South of Kermadec Islands
			33.7 S 178.9 W
			H = 21 25 45 h = 236 km
			D = 161.38 Az = 339 (ISC)
16.	ePn A	23 51 06.5	Poland 51.2 N 16.0 E
	eSg A	51 48	H = 23 50 14 h = 0 km
			D = 2.82 Az = 260 (ISC)
17.	ePKIKP A	01 48 47	New Hebrides Islands 15.65 S 167.55 E
	epPKIKP A	49 16	H = 01 29 25.3 h = 89.0 km MB = 4.9
	LmH C	02 42.6	D = 140.06 Az = 336 (NEIS)
	LmV C	45.6	h = 112 km
			PKIKPV A 2.2s 43.6nm
			LmH C 28 0.3/um
			LmV C 28 0.35/um
17.	ePKIKP A	03 49 31	Tonga Islands 17.25 S 175.01 W
	ePKHKP A	49 32.5	H = 03 30 22.1 h = 273.0 km MB = 5.6
	ePKP2 A	50 43	D = 146.26 Az = 352 (NEIS)
			PKHKPV A 2.0s 256.0nm

Day	Phase	h m s	Remarks
17.	ePKP2 A	06 33 26.5	South of Kermadec Islands 32.82 S 178.50 W
	LmV B	08 02.2	H = 06 12 48.0 h = 33 km MB = 5.0 (NEIS)
	LmH B	06.0	D = 160.7
			PKP2V A 2.0s 42.8nm
			LmH B 18 0.4/um M = 5.2
			LmV B 17 0.4/um 5.4
17.	ePKHKP A	07 42 10	South of Fiji Islands 22.27 S 179.57 W
	ePKP2 A	42 19	H = 07 23 24.4 h = 597.6 km MB = 5.0
			D = 150.35 Az = 346 (NEIS)
17.	ePn A	11 41 47	Germany Democratic Republic - Poland Bor-
	i(Pg) A	41 54.5	der Region 51.08 N 14.93 E
	e A	42 25	H = 11 41 11.9 h = 28.0 km
	eiSg A	42 35	D = 2.14 Az = 260 (NEIS)
18.	ePKP2 A	14 52 17	North Islands, New Zealand
			38.72 S 175.62 E
			H = 14 31 40.0 h = 149 km MB = 5.3 (NEIS)
			D = 163.5
			PKP2V A 1.8s 27.0nm
18.	eP A	15 08 01.5	Gulf of Alaska 57.36 N 150.20 W
	e A	08 09	H = 14 56 42.1 h = 25.0 MB=5.2 MS=4.3
	LmH C	42.3	D = 71.32 Az = 12 (NEIS)
	LmV C	43.5	PV A 1.4s 37.2nm M = 5.3
			LmH C 17 0.2/um 4.5
			LmV C 17 0.35/um 4.7
19.	LmH B	08 00.6	Bismarck Sea 3.43 S 146.84 E
	LmV B	02.2	H = 06 48 08.8 h = 34 km MB = 5.1 (ISC)
			D = 119.8
			LmH B 21.5s 1.9/um M = 5.7
			LmV B 18.5 1.1/um 5.5
19.	ePKP2 A	10 50 01.5	South of Kermadec Islands
	LmH B	12 04.6	32.69 S 178.66 W
			H = 10 29 10.6 h = 31 km
			MB = 4.7 MS = 5.4 (NEIS)

Day	Phase		h m s	Remarks
cont.				
19.	LmV	B	12 14.8	D = 160.5
				PKP2V A 1.8s 20.3nm
				LmH B 20 0.35/um M = 5.1
				LmV B 20 0.55/um 5.4
19.	+iP	A	15 09 52	Oaxaca, Mexico 16.22 N 94.13 W
	e	A	10 34	H = 14 57 12.3 h = 85.0 km MB = 5.8
	LmH	B	48.5	D = 87.24 Az = 38 (NEIS)
	LmV	B	49.0	PV A 1.0s 94.5nm M = 5.8
				LmH B 19 0.35/um
				LmV B 19 0.6/um
19.	LmH	C	19 14.0	Near North Coast of West Irian
	LmV	C	14.5	2.84 S 139.04 E
				H = 18 01 56.4 h = 56 km MB = 5.2 (ISC)
				D = 114.9
				LmH C 19s 0.6/um
				LmV C 19 0.7/um
19.	eP	A	20 32 07	Oaxaca, Mexico 16.88 N 97.84 W
	LmH	C	21 18.0	H = 20 19 16.9 h = 84.9 km MB = 5.0
	LmV	C	18.0	D = 88.89 Az = 37 (NEIS)
				LmH C 17s 0.6/um
				LmV C 17 0.45/um
19.	ePKHKP	A	23 51 35	Loyalty Islands Region 22.52 S 170.42 E
				H = 23 31 52.1 h = 30.1 km
				D = 147.40 Az = 335 (NEIS)
				PKHKPV A 1.2s 12.2nm
20.	eP	A	01 47 16	Fox Islands,Aleutian Is.
				51.96 N 166.08 W
				H = 01 35 20.9 h = 33.0 km MB = 4.6
				D = 77.75 Az = 2 (NEIS)
20.	e(P)	A	02 17 37	Queen Charlotte Islands Region
				51.53 N 130.62 W
				H = 02 06 01.8 h = 33.0 km MB=4.5 MS=3.5
				D = 73.28 Az = 24 (NEIS)

Day	Phase		h m s	Remarks
20.	iPg	A	05 06 16.3	Klingenthal, Vogtland / GDR
	iSg	A	06 24	50.6 N 12.5 E
				D c. 0.6 (MOX)
20.	ePKIKP	A	05 36 16.5	Fiji Islands Region 21.20 S 179.01 W
	ePKHKP	A	36 22	H = 05 17 41.2 h = 628.5 km MB = 4.9
	ePKP2	A	36 29.5	D = 149.44 Az = 347 (NEIS)
	e	A	38 52.5	PKHKPV A 1.3s 45.9nm
	e	A	39 11	PKP2V A 1.2 20.3nm
20.	ePKIKP	AB	20 37 31	Fiji Islands Region 20.40 S 178.39 W
	iPKHKP	AB	37 35.5	H = 20 18 50.9 h = 559.0 km MB = 5.7
	ePKP2	AB	37 42	D = 148.80 Az = 348 (NEIS)
	epPKP	A	39 48	PKIKPV A 2.0s 145.0nm
	esPKP	B	40 44	PKHKPV A 1.7 521.0nm
				PKP2V A 1.7 200.0nm
20.	eP	A	23 01 01.5	Kurile Islands 49.21 N 156.08 E
				H = 22 49 11.4 h = 0 km MB = 4.7
				D = 75.97 Az = 338 (ISC)
21.	ePKP	A	02 00 54.5	Fiji Islands Region 16.70 S 176.91 W
				H = 01 41 32.3 h = 132.9 km MB = 4.4
				D = 145.44 Az = 350 (NEIS)
21.	ePKIKP	A	07 06 43.5	Solomon Islands 5.88 S 154.45 E
				H = 06 48 30.3 h = 430.0 km MB = 5.3
				D = 125.67 Az = 332 (NEIS)
				PV A 1.2s 12.2nm
21.	eP	A	07 36 16	Rat Islands, Aleutian Is.
				51.11 N 177.83 E
				H = 07 24 19.8 h = 33.0 km MB=5.0 MS=4.3
				D = 77.94 Az = 351 (NEIS)
				PV A 1.1s 12.1nm M = 4.8
21.	ePKP	A	08 56 40.5	Fiji Islands Region 17.75 S 178.65 W
				H = 08 38 00.2 h = 546.3 km MB = 4.9
				D = 146.16 Az = 348 (NEIS)
				PKPV A 1.3s 21.8nm

Day	Phase		h m s	Remarks
21.	ePKIKP	A	10 05 42	Solomon Islands 6.57 S 154.94 E
	e	A	05 54	H = 09 46 42.4 h = 50.2 km MB=5.8 MS=5.9
	ePP	AC	07 39	D = 126.51 Az = 332 (NEIS)
	eSPP	C	19 05	PKIKPV A 2.0s 59.9nm
	LmH	B	11 04.6	PPV A 2.0 25.6nm M = 5.1
	LmV	B	04.8	PPV C 20 0.5/um 5.4
				LmH B 20 1.3/um 5.6
				LmV B 20 1.6/um 5.7
21.	LmH	B	14 39.7	Northwest of Kurile Islands
	LmV	B	40.9	47.0 N 147.2 E
				H = 13 43 26 h = 223 km MB = 4.5 (ISC)
				D = 75.8
				LmH B 14s 0.3/um
				LmV B 12 0.5/um
21.	eP	A	15 32 07	Albania 40.04 N 19.66 E
	LmV	B	37.8	H = 15 29 16.5 h = 41.1 km MB = 4.5
	LmH	B	37.9	D = 12.01 Az = 335 (NEIS)
				PV A 1.0s 11.8nm M = 4.9
				LmH B 12 0.5/um 3.7
				LmV B 13 0.6/um
21.	eP	A	22 30 17.5	Kenai Peninsula, Alaska 60.36 N 151.19 W
	epP	A	30 36	H = 22 19 21.1 h = 67.3 km MB = 4.9
	e	A	30 59.5	D = 68.49 Az = 12 (NEIS)
				h = 70 km
22.	eP	A	01 11 54	Bonin Islands Region 28.11 N 139.75 E
	ePP	A	15 35	H = 00 59 46.8 h = 456.0 km MB = 5.0
				D = 89.19 Az = 330 (NEIS)
				PV A 1.0s 17.7nm M = 4.8
				PPV A 1.9 37.9nm 5.2
22.	eP	A	06 02 16	Near East Coast of Kamchatka
				54.58 N 161.24 E
				H = 05 50 53.4 h = 31.9 km MB = 4.7
				D = 72.11 Az = 340 (NEIS)

Day	Phase		h m s	Remarks
22.	e	A	17 37 49	XV A 1.5s 32.7nm
	eX	A	37 55	
22.	eP	A	17 46 01.5	South Atlantic Ridge 15.60 S 13.30 W
				H = 17 34 54.5 h = 33 km
				D = 69.49 Az = 17 (ISC)
22.	ePKHKP	A	18 48 10	Fiji Region 17.4 S 178.81 W
				H = 18 29 32.6 h = 566 km
				D = 145.8 Az = 348 (ISC)
22.	epP	A	19 49 50	South of Honshu 31.41 N 138.20 E
	eX	A	49 57.5	H = 19 36 25.2 h = 411 km MB = 4.8 (ISC)
				D = 85.8
				XV A 1.8s 54.1nm
22.	eP	A	19 59 26.5	South Atlantic Ridge 15.66 S 13.34 W
	LmH	B	20 28.0	H = 19 48 19.5 h = 33.0 km MB = 5.1
	LmV	B	32.0	D = 69.56 Az = 17 (NEIS)
				PV A 2.2s 43.6nm M = 5.1
				LmH B 20 0.35/um 4.6
				LmV B 16 0.35/um 4.8
22.	eP	A	23 01 13	Taiwan 23.29 N 121.73 E
				H = 22 48 47.2 h = 61.8 nm MB = 4.7
				D = 84.15 Az = 323 (NEIS)
				traces
22.	eP	AB	23 21 05.5	Near Coast of Chiapas, Mexico
	eS	B	31 44	14.65 N 93.51 W
	LmH	B	24 01.8	H = 23 08 16.9 h = 37.9 km MB=5.2 MS=4.9
	LmV	B	02.3	D = 88.11 Az = 38 (NEIS)
				PV A 2.4s 69.0nm M = 5.5
				LmH B 18 1.0/um 5.3
				LmV B 18 1.2/um 5.4
23.	ePKIKP	A	04 24 34.5	West Irian 3.24 S 137.62 E
	e	A	25 50	H = 04 05 58.8 h = 57.0 km MB = 5.8
	eS diff	B	33 14	D = 114.64 Az = 325 (NEIS)

Day	Phase		h m s	Remarks
cont.				
23.	e(PKKP)	A	04 35 20.5	LmH B 19.5s 1.8/um M = 5.7
	e	A	37 04	LmV B 18 2.2/um 5.8
	eSS	B	41 26	
	LmH	B	05 18.7	
	LmV	B	19.6	
23.	+iP	AB	09 06 03	Novaya Zemlya 73.37 N 54.64 E
	ePn	B	06 52	H = 08 59 57.9 h = 0.0 km MB=6.4 MS=4.9
	ePcP	B	09 06	D = 29.25 Az = 243 (NEIS)
	eS	B	10 55	PV A 1.0s 561.0nm M = 6.3 .
	iSn	B	11 36	PV B 4 2.0/um 6.2
	e	A	38 28	LmH B 14 13.4/um 5.7
	e	A	39 22	LmV B 7.5 7.3/um 5.8
	eP'P'	A	39 34.5	
	LmH	B	17.8	
	LmV	B	21.5	
23.	eiP	AB	14 02 32	Near East Coast of Kamchatka
	e	A	02 51	54.74 N 160.05 E
	epP	B	03 05	H = 13 51 24.1 h = 141.0 km MB = 5.9
	e	A	03 08	D = 71.72 Az = 339 (NEIS)
	iS	B	11 42	h = 139 km
	ePS	B	12 20	PV B 7s 1.8/um M = 6.0
	ePPS	B	12 40	PV A 1.5 427.0nm 6.0
	LmH	B	36.6	SH B 12 2.1/um 5.8
	LmV	B	42.4	LmH B 16 0.9/um
				LmV B 13 0.9/um
23.	eP	AB	15 20 08	Leyte, Philippine Islands
	ePP	C	24 07	10.01 N 125.79 E
	eSKS	C	30 55	H = 15 06 39.0 h = 40.3 km MB=6.0 MS=5.6
	LmH	B	16 07.9	D = 97.10 Az = 324 (NEIS)
	LmV	B	11.4	PV A 2.0s 188.0nm M = 6.3
				LmH B 17 3.0/um 5.8
				LmV B 16.5 3.1/um 5.9

Day	Phase		h m s	Remarks
23.	eP	A	17 45 35.5	Southern Italy 39.56 N 15.71 E
				H = 17 42 53.8 h = 267.4 km MB = 3.8
				D = 11.45 Az = 347 (NEIS)
				PV A 0.8s 17.3nm M = 4.3
23.	ePKHKP	A	19 57 14	South of Fiji Islands 24.80 S 179.92 E
	ePKP2	A	57 27	H = 19 38 13.3 h = 488.4 km MB = 5.3
				D = 152.66 Az = 344 (NEIS)
23.	eP	A	21 43 44	Ethiopia 10.62 N 39.73 E
	ePP	A	45 21	H = 21 35 21.7 h = 33.0 km MB = 5.2
				D = 46.12 Az = 335 (NEIS)
				PPV A 1.5s 20.1nm M = 4.8
24.	eP	A	01 16 26	Near Coast of Venezuela 10.75 N 62.64 W
				H = 01 05 14.5 h = 106.0 km MB = 5.2
				D = 71.78 Az = 40 (NEIS)
24.	e	A	03 05 25	
24.	eP	A	12 24 03	Austria 47.79 N 13.63 E
	eSg	A	24 55	H = 12 23 14.8 h = 33.0 km
				D = 3.15 Az = 336 (NEIS)
24.	ePKIKP	A	14 08 28	South of Fiji Islands 24.27 S 176.77 W
	ePKHKP	A	08 36.5	H = 13 48 50.6 h = 110.0 km MB = 5.0
				D = 152.88 Az = 348 (NEIS)
24.	eP	A	16 16 58	Near Islands, Aleutian Is.
				53.07 N 171.00 E
				H = 16 05 16.0 h = 24.0 km MB=5.1 MS=3.9
				D = 75.21 Az = 347 (NEIS)
				PV A 1.0s 11.8nm M = 4.9
25.	eP	AC	04 09 48.5	Near West Coast of Colombia
	eS	C	19 31	6.90 N 77.75 W
	LmH	B	50.8	H = 03 57 20.2 h = 46.9 km MB=5.2 MS=4.9
	LmV	B	50.8	D = 84.32 Az = 40 (NEIS)
				PV A 1.6s 38.5nm M = 5.2

Day	Phase		h m s	Remarks
cont. 25.				LmH B 18s 0.4/um M = 4.9
				LmV B 18 0.5/um 4.9
25.	ePKP	A	08 30 23	Solomon Islands 6.88 S 155.79 E
	e(pPKP)	A	30 39	H = 08 11 24.5 h = 73.5 km MB = 5.6
				D = 127.17 Az = 332 (NEIS)
25.	eSg	A	12 50 06	Austria 48.85 N 14.35 E
				Explosion yield 10.5 t (PRU)
				D = 2.51
25.	eP	A	21 55 38.5	Northern Chile 19.24 S 69.16 W
	e	A	55 49.5	H = 21 42 10.8 h = 119.0 km MB = 5.7
	epP	A	56 12	D = 98.98 Az = 40 (NEIS)
	ePP	A	59 37	h = 126 km
	e	AB	59 40.5	PV A 2.0s 42.7nm M = 5.7
	eSKS	B	22 06 10	LmH B 20 1.1/um
	eS	B	07 00	LmV B 21 1.3/um
	eSP	C	08 25	
	LmH	B	36.0	
	LmV	B	36.0	
26.	eP	A	05 22 46	Hokkaido, Japan Region 40.96 N 143.00 E
	LmH	B	06 01.5	H = 05 10 45.0 h = 54.0 km MB = 5.2
	LmV	B	01.3	D = 79.35 Az = 331 (NEIS)
				LmH B 18.5s 1.2/um
				LmV B 20 1.2/um
26.	eX	A	11 26 41	Fiji Islands Region 15.51 S 177.19 W
	LmV	B	12 31.4	H = 11 06 58.7 h = 33.0 km MB=5.3 MS=5.4
	LmH	B	32.5	D = 144.24 Az = 350 (NEIS)
				XV A 1.3s 13.1nm
				LmH B 20 1.0/um M = 5.5
				LmV B 21 1.3/um 5.7
26.	ePKIKP	A	12 39 09.5	South of Fiji Islands 23.77 S 176.92 W
	ePKHKP	A	39 16.5	H = 12 19 32.6 h = 114.0 km MB = 5.4
	ePKP2	A	39 23.5	D = 152.37 Az = 348 (NEIS)
				PKHKPV A 1.8s 60.8nm

Day	Phase		h m s	Remarks
26.	eP	A	20 18 51.5	Near Coast of Oaxaca, Mexico
	eX	A	18 57	15.05 N 94.07 W
	LmV	B	57.6	H = 20 06 02.8 h = 50.0 km MB=4.9 MS=4.1
	LmH	B	58.4	D = 88.13 Az = 38 (NEIS)
				XV A 2.0s 59.8nm
				LmH B 19 0.35/um M = 4.8
				LmV B 18 0.35/um 4.8
27.	ePKHKP	A	02 54 54	South of Fiji Islands 23.78 S 179.79 W
	ePKP2	A	55 06	H = 02 35 59.7 h = 540.0 km MB = 5.1
				D = 151.76 Az = 345 (NEIS)
27.	eP	A	07 49 21	Tibet 34.77 N 80.49 E
	LmH	C	08 09.0	H = 07 40 16.3 h = 15.9 km MB=4.8 MS=4.1
	LmV	C	13.2	D = 51.20 Az = 310 (NEIS)
				PV A 0.9s 11.7nm M = 4.8
27.	ePKHKP	A	13 07 03.5	South of Fiji Islands 22.28 S 179.74 W
				H = 12 48 17.8 h = 601 km MB = 4.3
				D = 150.32 Az = 345 (ISC)
				PKHKPV A 1.0s 13.8nm
27.	eP	A	17 07 10	Southern Iran 27.50 N 56.21 E
	LmH	C	23.5	H = 16 59 31.2 h = 43.3 km MB = 5.1
	LmV	C	28.0	D = 40.81 Az = 317 (NEIS)
				LmH C 25s 0.25/um M = 3.9
				LmV C 20 0.35/um 4.3
28.	LmH	C	03 11.3	Marianas 14.35 N 146.70 E
	LmV	C	16.5	H = 02 10 01 h = 20 km MB = 5.0 (ISC)
				D = 104.4
				LmH C 16s 0.35/um M = 5.0
				LmV C 18 0.35/um 5.0
28.	LmH	B	14 45.5	North Eastern China 40.59 N 121.91 E
	LmV	B	50.4	H = 14 05 12 h = 87 km MB = 4.6 (ISC)
				D = 70.7
				LmH B 16.5s 0.6/um
				LmV B 20 0.8/um

Day	Phase		h m s	Remarks
28.	LmV	C	19 22.5	South Indian Ocean 25.98 S 84.10 E
				H = 18 25 45.0 h = 33 km MB = 5.1 (ISC)
				D = 99.4
29.	ePKIKP	A	07 22 55	New Hebrides Islands 15.75 S 167.76 E
	eX	A	23 02.5	H = 07 03 55.3 h = 192.0 km MB = 5.5
				D = 140.24 Az = 336 (NEIS)
				XV A 1.2s 20.3nm
29.	eP	AB	10 28 25	Off East Coast of Honshu, Japan
	e	A	28 35	40.61 N 143.69 E
	e	B	28 44	H = 10 16 17.1 h = 30.0 km MB = 5.1
	eS	B	38 30	D = 79.91 Az = 331 (NEIS)
	LmH	B	11 02.5	PV A 1.9s 53.0nm M = 5.2
	LmV	B	10.5	LmH B 18 2.8/um 5.6
				LmV B 15 1.6/um 5.5
29.	ePKIKP	A	11 19 26	New Hebrides Islands 15.76 S 167.83 E
				H = 11 00 19.2 h = 200.0 km MB = 5.3
				D = 140.27 Az = 336 (NEIS)
29.	ePKHKP	A	19 31 29	Loyalty Islands Region 22.1 S 170.1 E
				H = 19 11 47 h = 37 km
				D = 146.93 Az = 331 (ISC)
29.	eP	A	20 51 58	Nicobar Islands Region 9.31 N 94.19 E
	eX	A	52 06	H = 20 40 01.3 h = 33.0 km MB = 5.0
				D = 78.16 Az = 320 (NEIS)
				XV A 1.2s 22.4nm
29.	eP	A	22 27 05	Kurile Islands 49.11 N 156.12 E
				H = 22 15 20.9 h = 52.9 km MB = 4.4
				D = 76.07 Az = 338 (NEIS)
30.	e	A	02 39 36	
30.	iPn	A	02 59 06	Austria 47.60 N 10.46 E
	ePg	A	59 25	H = 02 58 15.4 h = 1 km
	i(Sn)	A	59 48	D = 3.15 Az = 14 (ISC)

Day	Phase		h m s	Remarks
cont. 30.	iSg	A	03 00 02	
30.	eP	A	06 49 28.5	East of Severnaya Zemlya
				81.83 N 119.64 E
				H = 06 41 33.0 h = 33.0 km MB = 4.4
				D = 42.69 Az = 297 (NEIS)
30.	ePKHKP	A	20 35 53	Fiji Islands Region 21.06 S 178.53 W
				H = 20 17 01.7 h = 518.0 km MB = 4.9
				D = 149.41 Az = 347 (NEIS)
				ePKHKPV A 1.5s 30.2nm
31.	e(PKP)	A	04 02 49	Loyalty Islands Region 21.32 S 170.29 E
				H = 03 43 21.7 h = 120.4 km
				D = 146.27 Az = 335 (NEIS)
				traces
31.	ePKP2	A	09 40 05	Kermadec Islands Region 29.9 S 179.1 W
				H = 09 20 05 h = 244 km
				D = 157.73 Az = 342
				PKP2V A 1.0s 11.8nm
31.	eP	A	12 13 32.5	Kodiak Island Region 57.25 N 151.06 W
	e	A	13 41	H = 12 02 10.0 h = 11.8 km MB=5.1 MS=4.4
				D = 71.52 Az = 12 (NEIS)
				PV A 1.4s 44.2nm M = 5.4
31.	eP	A	12 31 42	South of Panama 7.23 N 82.28 W
	LmH	B	13 10.5	H = 12 18 56.0 h = 33.0 km MB=5.3 MS=4.7
	LmV	B	11.4	D = 86.94 Az = 40 (NEIS)
				PV A 1.5s 25.1nm M = 5.2
				LmH B 17 0.3/um 4.7
				LmV B 18 0.5/um 5.0
31.	eP	A	22 53 24.5	Kurile Islands 44.47 N 148.11 E
				H = 22 41 29.9 h = 55.2 km MB = 5.0
				D = 78.01 Az = 333 (NEIS)

Day	Phase		h m s	Remarks
31.	e	A	23 54 23	Bulgaria 41.97 N 23.19 E
	LmV	C	57.7	H = 23 49 57.2 h = 33 km MB = 3.8
	LmH	C	57.8	D = 11.83
				LmH C out of operation
				LmV C 14s 0.25/um

Day	Phase		h m s	Remarks
1.	eP	A	03 47 26	North Atlantic Ridge 43.81 N 29.18 W
	LmV	C	58.0	H = 03 41 33.8 h = 33.0 km MB=4.7 MS=4.2
				D = 28.25 Az = 62 (NEIS)
				PV A traces
				LmV C 17s 0.3/um M = 4.1
1.	ePKP	A	20 58 27	Samoa Islands Region 15.23 S 172.89 W
				H = 20 38 53.3 h = 24.9 km MB = 5.3
				D = 144.49 Az = 355 (NEIS)
1.	eP	A	22 03 18	Costa Rica 8.62 N 83.17 W
				H = 21 50 36.8 h = 28.1 km MB = 5.2
				D = 86.43 Az = 39 (NEIS)
				PV A 1.4s 14.0nm M = 5.0
1.	eP	A	22 54 01.5	Northern Sinkiang Prov., China
				43.82 N 83.74 E
				H = 22 45 26.4 h = 33.0 km MB = 4.8
				D = 47.66 Az = 305 (NEIS)
1.	eP	A	23 22 24.5	Western Iran 33.32 N 49.10 E
	ePP	A	23 26	H = 23 15 52.5 h = 15.7 km MB = 4.9
	LmH	B	37.5	D = 32.37 Az = 314 (NEIS)
	LmV	B	38.4	PV A 1.0s 11.8nm M = 4.8
				PPV A 1.5 20.1nm 4.9
				LmH B 22 0.6/um 4.3
				LmV B 16 0.5/um 4.4
2.	eP	A	10 29 30	South of Honshu, Japan 30.19 N 140.13 E
				H = 10 16 38.7 h = 23.8 km MB = 5.3
				D = 87.56 Az = 330 (NEIS)
				PV A 2.0s 34.2nm M = 5.3
2.	eP	A	10 36 18	South of Honshu, Japan 30.08 N 139.97 E
	eSKS	C	46 45	H = 10 23 25.2 h = 26.4 km MB=5.6 MS=5.5
	LmH	B	11 14.0	D = 87.59 Az = 330 (NEIS)
	LmV	B	14.6	PV A 1.8s 40.5nm M = 5.4
				LmH B 16 4.7/um 6.0
				LmV B 16 1.8/um 5.6

Day	Phase		h m s	Remarks
2.	eP	A	11 10 34	South of Honshu, Japan
	ePP	A	14 01	30.09 N 139.87 E
	e	A	14 15	H = 10 57 49.8 h = 41.7 km MB=5.5 MS=5.0
				D = 87.54 Az = 330 (NEIS)
				PV A 1.8s 43.9nm M = 5.4
2.	LmH	B	12 52.5	Eastern China 32.85 N 121.89 E
	LmV	B	57.0	H = 12 10 08 h = 46 km MB = 4.5 (ISC)
				D = 76.7
				LmH B 21s 1.6/um M = 5.3
				LmV B 17 0.8/um 5.5
2.	ePKIKP	A	15 50 12	Sawu Sea 10.00 S 121.74 E
	ePP	A	51 02	H = 15 31 59.5 h = 68.4 km MB = 5.9 (NEIS)
	ePKKP	A	16 01 28	D = 110.4
	LmH	B	38.5	PKIKPV A traces
	LmV	B	43.3	PPV A 2.2s 65.4nm M = 5.8
				LmH B 20 0.6/um
				LmV B 18 0.45/um
2.	eP	A	19 50 44.5	Off East Coast of Honshu, Japan
				33.65 N 142.18 E
				H = 19 38 07.5 h = 18.5 km MB = 5.2
				D = 85.42 Az = 331 (NEIS)
				PV A 1.2s 20.3nm M = 5.2
3.	ePn	A	13 51 07	Yugoslavia 45.0 N 15.8 E
	e(Sn)	A	52 34	H = 13 49 34 h = 33 km
	eSg	A	53 08	D = 6.36 Az = 335 (ISC)
3.	eP	A	19 55 23	North Atlantic Ocean 59.87 N 29.83 W
	Pm	A	55 39	H = 19 50 01.6 h = 33.0 km MB=5.0 MS=4.8
	eS	B	59 48	D = 24.96 Az = 93 (NEIS)
	LmV	B	20 04.5	PV A 1.4s 23.3nm M = 4.6
	LmH	B	04.6	PmV A 1.6 87.9nm 5.1
				SH B 12 1.0/um 5.1
				LmH B 16 3.7/um 5.0
				LmV B 20 1.1/um 4.5

Day	Phase		h m s	Remarks
3.	ePg	A	22 01 36	Czechoslovakia 49.9 N 18.5 E
	eSb	A	02 18.5	H = 22 00 05 h = 0 km (ISC)
				D = 4.5
4.	eP	A	13 07 38	North Atlantic Ocean 59.74 N 29.81 W
	e	A	07 52	H = 13 02 17.4 h = 33.0 km MB=4.6 MS=4.2
	eS	C	12 10	D = 24.95 Az = 93 (NEIS)
	LmH	B	17.0	PV A 2.0s 38.5nm M = 4.6
	LmV	B	18.8	LmH B 16 0.9/um 4.3
				LmV B 13 1.5/um 4.8
4.	eP	A	16 01 15	Kurile Islands 43.07 N 147.94 E
	e	A	01 26.5	H = 15 49 11.9 h = 36.0 km MB = 5.0
				D = 79.21 Az = 333 (NEIS)
				PV A 1.8s 27.1 nm M = 4.9
4.	ePKIKP	A	23 59 48	South of Fiji Islands 23.72 S 179.20 E
	-iPKHKP	A	59 55	H = 23 41 01.1 h = 540.6 km MB = 5.3
	ePKP2	A	24 00 05	D = 151.44 Az = 343 (NEIS)
	epPKP	A	01 59	PKIKPV A 1.5s 30.2nm
	ei	A	02 04.5	PKHKPV A 1.2 75.3nm
				PKP2V A 1.8 47.3nm
5.	ePn	A	04 47 30	Austria 47.37 N 15.98 E
	eSg	A	48 50	H = 04 46 23.4 h = 33.0km
				D = 4.36 Az = 320 (NEIS)
5.	LmV	B	08 29.0	East of North Island, New Zealand
				35.71 S 179.6 W
				H = 06 47 28 h = 1 km (ISC)
				D = 163.4
				LmV B 19s 0.4/um M = 5.3
5.	ePKHKP	A	16 26 23	Fiji Islands Region 20.69 S 176.32 W
	ePKP2	A	26 28	H = 16 06 55.7 h = 194.7 km MB = 5.2
				D = 149.46 Az = 350 (NEIS)
				PKHKPV A 1.0s 15.7nm

Day	Phase		h m s	Remarks
5.	ePKIKP	A	23 00 27	Solomon Islands 6.78 S 154.40 E
	LmV	C	58.0	H = 22 41 26.6 h = 34.5 km MB = 5.2
				D = 126.44 Az = 331 (NEIS)
				PKIKPV A 1.2s 12.2nm
				LmV C 20s 0.2/um M = 4.8
6.	eP	A	04 54 12	Nepal 29.28 N 82.16 E
	e	A	54 17	H = 04 44 35.7 h = 33.0 km MB=5.1 (NEIS)
				D = 55.8
				PV A 0.8s 17.3nm M = 5.1
6.	iPKHKP	A	09 54 20.5	South of Fiji Islands 22.03 S 179.74 W
	ePKP2	A	54 30	H = 09 35 38.2 h = 629.9 km MB = 4.6
	epPKP	A	56 43	D = 150.08 Az = 345 (NEIS)
				PKHKPV A 1.2s 32.6nm
6.	+eiP	AB	09 25 23.5	Turkey 38.47 N 40.72 E
	e	B	28 09	H = 09 20 10.9 h = 25.9 km MB=6.1 MS=6.7
	iS	B	29 44	D = 23.88 Az = 310 (NEIS)
	LmV	B	37.5	PV A 1.8s 1223.0nm M = 6.1
	LmH	B	37.6	PV B 7 19.6/um 6.7
				SH B 13 126.0/um 7.0
				LmH B 14 155.0/um 6.6
				LmV B 15 175.0/um 6.8
6.	eP	A	10 16 04	Turkey 38.6 N 40.8 E
				H = 10 11 02 h = 166 km MB = 4.4
				D = 23.81 Az = 310 (ISC)
6.	eP1	A	10 18 19	Turkey 38.54 N 40.59 E
	eP2	A	18 23	H = 10 13 08.5 h = 33.0 km MB = 5.1
				D = 23.76 Az = 310 (NEIS)
				P2V A 1.6s 43.9nm M = 4.7
6.	eP	A	10 57 28.5	Turkey 38.43 N 40.83 E
				H = 10 52 15.0 h = 33.0 km MB = 5.2
				D = 23.97 Az = 310 (NEIS)
				PV A 1.9s 189.4nm M = 5.3

Day	Phase		h m s	Remarks
6.	ePn	A	12 00 24	Poland 50.03 N 16.58 E
	iSg	A	00 55.5	Explosion, yield 20 t (PRU)
				H = 11 59.8
				D = 3.24
6.	eP	AB	12 15 58	Turkey 38.41 N 40.57 E
	eS	B	20 20	H = 12 10 47.2 h = 33.0 km MB = 4.9
	LmH	B	27.9	D = 23.83 Az = 310 (NEIS)
	LmV	B	27.9	PV A 2.0s 136.8nm M = 5.1
				SH B 13 2.4/um 5.4
				LmH B 16 3.0/um 4.9
				LmV B 16 2.5/um 4.9
6.	eP	A	12 29 13.5	Turkey 38.23 N 40.47 E
				H = 12 24 00.5 h = 33.0 km MB = 4.5
				D = 23.88 Az = 311 (NEIS)
				PV A 1.6s 27.4nm M = 4.5
6.	eP	A	13 26 06	Turkey 38.5 N 41.0 E
				H = 13 20 51 (BCIS)
				D = 23.99
				PV A 2.0s 25.6nm M = 4.4
6.	eP	A	18 16 23.5	Kodiak Island Region 56.63 N 152.30 W
				H = 18 04 59.5 h = 33.0 km MB = 5.1
				D = 72.27 Az = 11 (NEIS)
				PV A 1.1s 24.2nm M = 5.1
6.	eP	A	22 48 02	Turkey 38.48 N 40.50 E
	eS	C	52 24	H = 22 42 50.5 h = 33.0 km MB = 4.2
	LmH	B	59.8	D = 23.74 Az = 310 (NEIS)
	LmV	B	59.9	PV A traces
				LmH B 16s 0.3/um M = 3.9
				LmV B 16 0.35/um 4.1
7.	eP	A	11 52 08	Eastern Sea of Japan 43.12 N 139.30 E
				H = 11 40 41.4 h = 201.4 km MB = 5.1
				D = 76.10 Az = 329 (NEIS)

Day	Phase		h m s	Remarks
7.	ePn	A	16 24 14	Yugoslavia 45.79 N 15.73 E
	eiPg	A	24 40	H = 16 22 52.4 h = 33 km MB = 4.4 (NEIS)
	eSn	A	25 15	D = 5.59
	eiSg	A	25 47	PV A 1.0s 19.7nm M = 4.3
	LmH	B	26.0	LmH B 8 1.9/um 3.9
	LmV	B	26.4	LmV B 6 0.8/um
7.	ePn	A	20 40 07	Switzerland 47.06 N 9.74 E
	ePg	A	40 23	H = 20 39 11.2 h = 33.0 km
	eSn	A	40 50	D = 3.79 Az = 18 (NEIS)
	i	A	40 56	
	eSg	A	41 15	
7.	LmH	B	24 32.0	Panama-Costa Rica Border Region
	LmV	B	32.0	8.25 N 82.70 W
				H = 23 46 09.3 h = 38 km MB = 4.9 (ISC)
				D = 86.4
				LmH B 20s 0.25/um M = 4.6
				LmV B 20 0.3/um 4.7
8.	ePKHKP	A	07 00 40	Fiji Islands Region 20.45 S 178.59 W
	ePKP2	A	00 47	H = 06 42 00.4 h = 618.3 km MB = 4.9 (NEIS)
				D = 148.8
				PKHKPV A 1.0s 19.7nm
8.	eP	A	09 40 43	Honshu, Japan 40.87 N 140.64 E
				H = 09 28 55.2 h = 132 km MB = 5.2 (NEIS)
				D = 78.5
				PV A 1.1s 18.1nm M = 4.7
8.	eP	A	18 39 45	Iceland Region 62.93 N 25.48 W
				H = 18 34 35.7 h = 33 km MB = 4.4 (NEIS)
				D = 23.1
9.	e(P)	A	02 56 03.5	Near Coast of Northern California
	LmH	C	03 31.7	40.92 N 124.40 W
	LmV	C	34.0	H = 02 43 42.5 h = 27 km MB = 4.9 (NEIS)
				D = 81.1
				PV A 1.4s 18.6nm M = 4.9

Day	Phase		h m s	Remarks
cont. 9.	LmH	C	03 31.7	LmH C 19s 0.45/um M = 4.9
	LmV	C	34.0	LmV C 17 0.4/um 4.9
9.	eP	A	18 41 02	Southern Sinkiang Prov., China 40.04 N 78.62 E
	e(S)	C	47 45	H = 18 32 33.7 h = 33 km
	eiSS	C	51 25	MB = 5.5 MS = 5.0 (NEIS)
	LmH	B	19 00.5	D = 46.8
	LmV	B	01.8	PV A 1.3s 78.6nm M = 5.5
				SH traces
				LmH B 16 1.8/um 5.1
				LmV B 15 2.6/um 5.4
9.	eiPg	A	19 44 19.2	Volkenroda, German Democratic Republic
	eiSg	A	44 31.5	51.30 N 10.55 E
				D = 0.94 (MOX)
9.	LmH	B	21 32.8	Balleny Islands Region 62.16 S 161.0 E
	LmV	B	45.3	H = 19 55 39 h = 60 km MB = 5.6 (ISC)
				D = 159.8
				LmH B 19s 0.8/um
				LmV B 17 1.2/um
9.	eP1	A	22 56 01	North Atlantic Ocean 35 1/4 N 16 1/4 W
	eP2	A	56 04	H = 22 50 29 (BCIS)
	eS	C	23 00 30	D = 25.3
	LmH	B	03.9	P2V A 1.2s 16.3nm M = 4.5
	LmV	B	04.3	LmH B 16 0.5/um 4.1
9.	ePKIKP	A	23 40 26	New Hebrides Islands 13.52 S 166.33 E
				H = 23 21 04.0 h = 40 km MB = 5.5 (NEIS)
				D = 137.7
				PKIKPV A 1.7s 24.3nm
10.	LmH	C	05 22.0	Northern Sulawesi (Celebes)
	LmV	C	26.4	0.05 N 121.79 E
				H = 04 17 42.7 h = 43 km MB = 4.8 (ISC)
				D = 102.7
				LmH C 22s 0.35/um M = 4.8
				LmV C 20 0.55/um 5.1

Day	Phase		h m s	Remarks
10.	eP	A	09 39 03	Near East Coast of Honshu, Japan
	LmH	C	10 13.0	40.31 N 142.82 E
	LmV	C	14.0	H = 09 26 57.4 h = 45.4 km MB = 4.9
				D = 79.85 Az = 331 (NEIS)
				PV A 1.5s 25.1nm M = 4.9
				LmH C 23 0.6/um 4.9
				LmV C 26 0.5/um 4.8
10.	ePKP2	A	11 04 32.5	South of Tonga Islands 25.10 S 175.37 W
	LmH	C	12 18.5	H = 10 44 22.8 h = 33 km
	LmV	C	19.8	MB = 5.1 MS = 5.3 (NEIS)
				D = 153.9
				PKP2V A 1.4s 18.6nm
				LmH C 17 0.35/um M = 4.8
				LmV C 18 0.45/um 5.3
10.	ePg	A	18 57 55	
	iSg	A	58 11.2	
11.	ePKHKP	A	03 54 59.5	New Hebrides Islands Region
	e	A	55 38	20.31 S 174.41 E
				H = 03 35 22.7 h = 63.0 km MB = 4.6
				D = 146.82 Az = 340 (NEIS)
11.	e	A	19 59 37	South of Tonga 24.8 S 175.1 W
				H = 19 39 08.6 h = 33 km
				D = 153.70 Az = 350 (ISC)
11.	+eP	AB	22 13 42.5	Off Coast of Mexico 6.99 N 104.28 W
	e	A	15 42	H = 21 59 57.2 h = 33.0 km MB=6.4 MS=5.8
	e	A	16 54	D = 100.53 Az = 36 (NEIS)
	e	A	17 17	PV A 2.6s 312.0nm M = 6.4
	ePP	AB	17 42	PH A 2.6 197.6nm 6.5
	eSKS	C	24 28	PV B 3.5 0.8/um 6.7
	eiPS	C	26 35	LmH B 24 7.3/um 6.1
	eiSS	C	27 43	LmV B 24 9.6/um 6.24
	ePKKP	A	30 23	
	eiSS	C	32 20	
	LmH	B	53.0	
	LmV	B	53.2	

Day	Phase		h m s	Remarks
12.	eP	A	00 46 39	Turkey 38.4 N 40.8 E
				H = 00 41 25 (BCIS)
				D = 23.92
				PV A 1.5s 25.1nm M = 4.5
12.	ePKP	A	01 21 54	Fiji Islands Region 17.19 S 176.96 W
				H = 01 02 56.8 h = 385.8 km MB = 5.0
				D = 145.93 Az = 350 (NEIS)
				PKPV A 1.3s 17.5nm
12.	eP	A	13 14 10	Southern Greece 36.23 N 21.78 E
	eS	B	17 24	H = 13 10 19.2 h = 47.3 km MB=4.8 MS=4.5
	LmH	B	20.0	D = 16.16 Az = 336 (NEIS)
	LmV	B	21.8	PV A 0.9s 35.0nm M = 4.5
				LmH B 16 9.0/um 5.0
				LmV B 13.5 8.2/um 5.3
12.	+eP	AB	15 40 01.5	Near East Coast of Kamchatka
	eS	C	49 55	51.90 N 157.22 E
	eSSS	C	58 30	H = 15 28 35.1 h = 88.4 km MB = 5.6
	LmH	C	16 05.4	D = 73.76 Az = 338 (NEIS)
	LmV	C	05.4	PV A 1.9s 90.9nm M = 5.3
				LmH C 55 1.8/um
				LmV C 55 1.9/um
12.	ePn	A	21 52 29	Central Italy 43.7 N 12.0 E
	ePg	A	53 12	H = 21 50 46 (BCIS)
	eSn	A	53 50	D = 6.99
	eSg	A	54 45	Pn, Pg and Sn traces
13.	LmH	B	03 26.6	Lower California 30.72 N 116.20 W
	LmV	B	27.4	H = 02 38 33.2 h = 33 km MB = 4.9 (ISC)
				D = 86.8
				LmH B 21s 1.5/um M = 5.4
				LmV B 20 1.5/um 5.4
13.	ePKP2	A	06 55 30	South of Kermadec Islands
				33.09 S 178.08 W
				H = 06 34 49.3 h = 28 km MB = 4.8

Day	Phase		h m s	Remarks
cont. 13.	e	A	06 55 48	D = 161.05 Az = 341 (ISC)
				PKP2V A 1.8s 33.8nm
13.	ePKIKP	A	11 33 12.5	Fiji Islands Region 20.78 S 178.71 W
	ePKHKP	A	33 17.5	H = 11 14 36.8 h = 619.0 km MB = 5.3
	ePKP2	A	33 24	D = 149.10 Az = 347 (NEIS)
	e	A	33 31.5	PKHKPV A 1.4s 79.1nm
	epPKHKP	A	35 40	
	ep(PKP2)	A	35 48	
13.	LmH	C	14 18.0	Lower California 30.3 N 116.4 W
	LmV	C	19.0	H = 13 30 13 h = 33 km (ISC)
				D = 87.3
				LmH C 22s 0.4/um M = 4.8
				LmV C 20 0.45/um 4.9
13.	eP	A	14 33 57.5	Greece 38.52 N 21.77 E
	e	A	36 56	H = 14 30 36.1 h = 23.6 km MB = 4.9
	e	C	37 18	D = 14.10 Az = 333 (NEIS)
	LmH	B	40.1	LmH B 11s 1.2/um M = 4.2
	LmV	B	40.1	LmV B 12 1.1/um
13.	+iP	A	16 17 53.4	Near East Coast of Kamchatka
				53.18 N 160.04 E
				H = 16 06 24.8 h = 38.1 km MB = 4.9
				D = 73.18 Az = 340 (NEIS)
				PV A 1.1s 24.2nm M = 5.1
13.	eP	A	21 33 33	Central California 36.00 N 120.56 W
	LmH	B	22 08.0	H = 21 20 59.8 h = 13.0 km MB=4.9 MS=4.3
	LmV	B	13.0	D = 83.99 Az = 28 (NEIS)
				LmH B 20s 0.6/um M = 5.0
				LmV B 16 0.5/um 5.0
14.	LmH	B	16 01.8	Off Coast of Costa Rica 10.84 N 86.39 W
	LmV	B	08.4	H = 15 19 27.9 h = 74 km MB = 4.6 (ISC)
				D = 86.8
				LmH B 17s 0.4/um
				LmV B 18 0.6/um

Day	Phase		h m s	Remarks
14.	LmV	C	18 36.7	Off Coast of Central America
				12.18 N 88.38 W
				H = 17 38 58 h = 31 km MB = 4.8 (ISC)
				D = 86.9
				LmV C 17s 0.3/um M = 4.9
15.	ePKHKP	A	02 11 42	Fiji Region 20.64 S 178.95 W
				H = 01 53 02.0 h = 625 km
				D = 148.9 Az = 347 (ISC)
15.	+PKHKP	A	17 07 22.5	Tonga Islands 21.29 S 174.58 W
	LmH	B	18 20.3	H = 16 47 32.9 h = 31.5 km MB=5.4 MS=4.8
	LmV	B	25.3	D = 150.30 Az = 352 (NEIS)
				PKHKPV A 1.5s 45.2nm
				LmH B 18 0.4/um M = 5.2
				LmV B 16 0.6/um 5.5
16.	ePKIKP	AB	00 20 46	Off W. Coast of S. Island, N. Z.
	ePKP2	AB	21 40	47.34 S 165.65 E
	ePP	C	25 35	H = 00 00 48.8 h = 30.2 km MB=5.6 MS=5.3
	eSKKS	C	32 10	D = 162.67 Az = 291 (NEIS)
	eSKSP	C	35 45	PKP2V A 1.9s 75.8nm
	ePPS	C	38 55	LmH B 20 1.9/um M = 5.8
	eSS	C	45 00	LmV B 20 2.3/um 6.0
	eSSP	C	46 45	
	eSSS	C	51 25	
	LmH	B	01 39.8	
	LmV	B	41.5	
16.	ePn	A	00 30 11	Albania 41.52 N 19.30 E
	eSg	A	33 28	H = 00 27 38.2 h = 72.6 km MB = 4.2
				D = 10.57 Az = 332 (NEIS)
16.	-iP	A	05 08 50	Albania 41.59 N 19.31 E
	iSn	A	10 34.5	H = 05 06 18.3 h = 22.0 km MB=5.1 MS=4.6
	eiSg	A	12 11	D = 10.51 Az = 332 (NEIS)
	LmH	B	12.5	PV A 1.1s 36.3nm M = 5.6
	LmV	B	13.5	LmH B 14 9.7/um 4.8
				LmV B 8 3.0/um

Day	Phase		h m s	Remarks
16.	eP	A	11 21 27	Bonin Islands Region 27.28 N 140.13 E
				H = 11 09 07.8 h = 373.9 km MB = 5.2
				D = 90.08 Az = 330 (NEIS)
				PV A 1.5s 25.1nm M = 4.9
16.	ePKIKP	A	12 11 29	Fiji Islands Region 18.04 S 177.95 W
	ePKHKP	A	11 31.5	H = 11 52 48.4 h = 523.1 km MB = 5.1
	ePKP2	A	11 34	D = 146.58 Az = 349 (NEIS)
				PKHKPV A 1.8s 60.8nm
16.	ePn	A	12 22 30	Austria 46.63 N 13.47 E
	eSn	A	23 20	H = 12 21 26.8 h = 33.0 km
	eiSg	A	23 42	D = 4.21 Az = 344 (NEIS)
16.	eP	A	12 56 31.5	Turkey 38.47 N 40.67 E
	LmH	C	13 07.0	H = 12 51 13.9 h = 15.0 km MB = 4.4
	LmV	C	07.4	D = 23.85 Az = 310 (NEIS)
				LmH C 19s 0.4/um M = 3.9
				LmV C 20 0.45/um 4.1
16.	ePn	A	18 48 18	Albania 41.47 N 19.19 E
	ePg	A	49 16	H = 18 45 47.4 h = 49.5 km MB = 4.6
	e	A	51 16.5	D = 10.57 Az = 333 (NEIS)
	eSg	A	51 35	
16.	ePn	A	18 57 33	Albania 41.47 N 19.21 E
	eSg	A	19 00 47	H = 18 54 59.8 h = 33.0 km MB = 4.2
				D = 10.58 Az = 333 (NEIS)
17.	eP	A	03 11 16	Burma 22.37 N 94.23 E
	e	A	11 22	H = 03 00 20.1 h = 88.0 km MB = 4.9
	e	A	11 28	D = 68.44 Az = 317 (NEIS)
	e	A	11 37	
17.	eP	A	09 17 56	Turkey 39 1/2 N 41. 1/2 E
				H = 09 12 47 (BCIS)
				D = 23.65

Day	Phase		h m s	Remarks
17.	eP	A	11 26 34	Turkey 38.46 N 40.51 E
	eS	C	30 58	H = 11 21 24.5 h = 43.8 km MB = 4.6
	LmH	B	38.6	D = 23.76 Az = 310 (NEIS)
	LmV	B	38.6	PV A 1.8s 27.0nm M = 4.5
				LmH B 15 0.5/um 4.1
				LmV B 15 0.6/um 4.3
17.	ePKP	A	20 17 52	Samoa Islands Region 16.43 S 172.07 W
				H = 19 58 13.5 h = 33.0 km MB = 4.3
				D = 145.74 Az = 356 (NEIS)
17.	eP	A	23 07 59	Southern Greece 36.36 N 23.14 E
	LmV	B	15.5	H = 23 04 07.1 h = 35.2 km MB=4.8 MS=4.3
	LmH	B	15.6	D = 16.52 Az = 333 (NEIS)
				PV A 1.1s 56.5nm M = 4.6
				LmH B 11 2.6/um 4.7
				LmV B 11 2.9/um 4.9
17.	e	A	23 42 46	Central Italy 43.90 N 11.56 E
				H = 23 39 27.7 h = 24.4 km
				D = 6.75 Az = 0 (NEIS)
17.	eP	A	23 47 37.5	Greece 38.17 N 20.34 E
	LmV	B	54.2	H = 23 44 20.7 h = 43.5 km MB = 4.6
	LmV	B	54.5	D = 13.93 Az = 336 (NEIS)
				PV A 1.6s 27.5nm M = 4.8
				LmH B 13 1.0/um 4.1
				LmV B 13 0.9/um
18.	e(P)	A	05 10 15	North of Svalbard 84.13 N 1.39 W
				H = 05 03 29.1 h = 33.0 km MB = 4.3
				D = 33.80 Az = 165 (NEIS)
				traces
18.	ePKP	A	05 48 49.5	Fiji Islands Region 16.77 S 177.20 W
				H = 05 29 12.1 h = 33.0 km MB = 5.2
				D = 145.47 Az = 350 (NEIS)

Day	Phase		h m s	Remarks
18.	LmH	C	09 31.8	Shikoku 32.13 N 132.11 E
	LmV	C	31.8	H = 08 38 46.6 h = 10 km (ISC)
				D = 82.3
				LmH C 18s 0.5/um M = 4.9
				LmV C 17 0.35/um 4.8
18.	ePKIKP	A	10 22 33.5	Fiji Islands Region 18.17 S 177.78 W
	ePKHKP	A	22 36.5	H = 10 04 02.0 h = 623.4 km MB = 5.1
				D = 146.74 Az = 349 (NEIS)
				PKIKPV A traces
18.	LmH	C	15 48.3	Solomon Islands 7.34 S 155.96 E
	LmV	C	48.6	H = 14 29 49.0 h = 44 km MB = 5.7 (ISC)
				D = 127.7
				LmH C 20s 0.3/um M = 5.0
				LmV C 20 0.3/um 5.1
18.	ePKIKP	A	17 54 45	New Britain Region 5.42 S 152.76 E
	e	A	55 05	H = 17 35 49.2 h = 53.6 km MB=4.8 MS=4.6
				D = 124.47 Az = 331 (NEIS)
				traces
18.	e(PKP)	A	18 49 49	South of Fiji Islands 23 S 179 E
	e	A	50 01	H = 18 30 01 MB = 4.6 (NORSAR)
				D = 151.0
18.	e	A	23 13 39.5	Burma 20.03 N 98.45 E
	e(PcP)	A	13 53	H = 23 01 58.8 h = 33.0 km MB = 5.1
	e	A	14 00	D = 72.81 Az = 318 (NEIS)
	LmH	B	44.7	LmH B 15s 0.8/um M = 5.1
	LmV	B	50.5	LmV B 16 0.5/um 5.0
19.	eiP	A	02 55 05	Near East Coast of Kamchatka
				53.01 N 159.71 E
				H = 02 43 36.6 h = 41.0 km MB=5.3 MS=4.0
				D = 73.27 Az = 339 (NEIS)
				PV A 1.0s 55.1nm M = 5.5

Day	Phase		h m s	Remarks
19.	+iP	A	03 27 01	Kurile Islands 47.04 N 151.86 E
				H = 03 15 21.1 h = 119.0 km MB = 5.5
				D = 76.83 Az = 335 (NEIS)
				PV A 1.4s 163.0nm M = 5.6
19.	eP	B	03 51 17.5	Amsterdam - Naturaliste Ridge
	ePP	AB	55 40	34.76 S 81.85 E
	ePS	B	04 04 48	H = 03 37 11.7 h = 33.0 km MB=6.0 MS=6.1
	eSS	C	10 20	D = 105.09 Az = 322 (NEIS)
	eSSS	C	14 44	PPV A 2.0s 76.9nm M = 6.0
	LmV	B	39.2	LmH B 19 2.7/um 5.8
	LmH	B	42.7	LmV B 20 2.5/um 5.8
19.	LmH	B	05 53.9	LmH B 18.5s 0.9/um
	LmV	B	55.3	LmV B 17 0.9/um
19.	eP	A	12 05 41.5	Turkey 38.94 N 41.03 E
				H = 12 00 35.8 h = 86.4 km MB = 4.2
				D = 23.77 Az = 309 (NEIS)
				PV A 1.2s 12.2nm M = 4.2
19.	eP	AB	18 06 33.5	Hokkaido, Japan Region 41.88 N 142.75 E
	ePP	B	09 32	H = 17 54 37.0 h = 47.0 km MB=5.5 MS=5.8
	eS	B	16 26	D = 78.45 Az = 331 (NEIS)
	eSS	C	22 40	PV A 2.5s 199.8nm M = 5.7
	LmH	B	44.2	PV B 9 1.2/um 5.9
	LmV	B	44.3	LmH B 19 8.5/um 6.1
				LmV B 19.5 11.0/um 6.2
19.	eP	A	21 55 24.5	North Atlantic Ocean 56.82 N 34.21 W
	e	A	55 31	H = 21 49 40.9 h = 33.0 km MB=4.5 MS=3.6
	LmH	C	22 06.0	D = 27.37 Az = 83 (NEIS)
	LmV	C	06.0	
19.	ePKIKP	A	23 34 35.5	Solomon Islands 6.42 S 154.90 E
	e	A	34 46.5	H = 23 15 34.0 h = 47.0 km MB=5.4 MS=5.6
	LmH	C	24 35.5	D = 126.36 Az = 332 (NEIS)
	LmV	C	35.5	LmH C 20s 0.8/um M = 5.4
				LmV C 20 0.9/um 5.4

Day	Phase		h m s	Remarks
20.	eP	A	05 26 39	Crete 34.75 N 26.30 E
	e	A	26 46	H = 05 22 20.4 h = 70.5 km MB = 4.6
				D = 19.15 Az = 331 (NEIS)
20.	eP1	A	05 44 50.5	Turkey 36.16 N 30.68 E
	eP2	A	44 58	H = 05 40 19.6 h = 33.0 km MB = 4.1
	LmH	B	53.7	D = 19.95 Az = 322 (NEIS)
	LmV	B	53.7	P2V A 1.7s 45.5nm M = 4.5
				LmH B 11.5 0.9/um 4.4
				LmV B 11 0.9/um 4.5
20.	eP	A	06 23 32.5	Chagos Archipelago Region
				6.74 S 68.31 E
				H = 06 11 50.0 h = 33.0 km MB = 5.4
				D = 75.08 Az = 327 (NEIS)
				PV A 2.0s 94.0nm M = 5.4
20.	ePKHKP	A	13 37 10	South of Fiji Islands 22.04 S 178.93 W
				H = 13 18 05.8 h = 391.2 km MB = 4.2
				D = 150.27 Az = 346 (NEIS)
20.	e(P)	A	21 51 52	Greece 40.54 N 21.53 E
	e	A	55 18.5	H = 21 48 37 h = 14 km
	LmH	C	56.7	D = 12.25 Az = 329 (ISC)
	LmV	C	58.0	
21.	LmH	C	01 49.5	LmH C 17s 0.45/um
	LmV	C	54.8	LmV C 18 0.35/um
21.	eP	A	13 25 52	Near Coast of Chiapas, Mexico
	eS	B	36 28	14.66 N 93.89 W
	LmH	B	14 06.2	H = 13 13 02.1 h = 33.0 km MB=5.4 MS=5.4
	LmV	B	06.2	D = 88.32 Az = 38 (NEIS)
				PV A 1.9s 75.7nm M = 5.7
				PV B 7 1.0/um 6.2
				LmH B 19 2.0/um 5.6
				LmV B 19 2.3/um 5.6

Day	Phase		h m s	Remarks
21.	eP	A	14 23 28	Iran 31.60 N 51.04 E
	e	A	23 36.5	H = 14 16 37.8 h = 33.0 km MB=5.2 MS=5.0
	LmV	B	41.0	D = 34.74 Az = 315 (NEIS)
	LmH	B	41.3	LmH B 15.5s 2.1/um M = 5.0
				LmV B 16 2.1/um 5.1
21.	eP	A	20 11 21	Turkey 38.33 N 40.62 E
	eS	B	15 50	H = 20 06 09.4 h = 33.0 km MB = 4.4
	LmH	B	23.4	D = 23.91 Az = 310 (NEIS)
	LmV	B	23.4	PV A 1.8s 33.8nm M = 4.6
				LmH B 16 0.5/um 4.1
				LmV B 16 0.5/um 4.2
22.	eP	AB	00 49 12	Crete 35.29 N 26.23 E
	e(PP)	B	49 24	H = 00 44 57.7 h = 63.0 km MB = 5.3
	eS	B	52 36	D = 18.65 Az = 330 (NEIS)
	LmH	B	56.7	PV A 1.2s 77.2nm M = 4.8
	LmV	B	57.9	PPV B 6 1.5/um
				LmH B 9.5 2.7/um
				LmV B 9 2.0/um
22.	eP1	A	13 00 16	Turkey 40.29 N 33.37 E
	eP2	A	00 19	H = 12 56 02.4 h = 33.0 km MB = 4.4
	LmH	C	06.8	D = 18.37 Az = 312 (NEIS)
	LmV	C	08.6	P1V A 1.6s 33.0nm M = 4.3
				P2V A 2.0 76.9nm 4.6
				LmH C 24 1.2/um 4.1
				LmV C 18 0.7/um 4.2
22.	eP	A	16 35 19	Turkey 40.26 N 33.41 E
				H = 16 31 04.4 h = 18.4 km MB = 4.4
				D = 18.41 Az = 312 (NEIS)
22.	e	A	23 07 40	Southern Iran 27.94 N 53.91 E
				H = 23 00 07.1 h = 33 km MB = 4.7
				D = 39.10 Az = 317 (NEIS)

Day	Phase		h m s	Remarks
23.	eP	A	07 42 17	Kurile Islands Region 43.91 N 148.78 E
				H = 07 30 17.3 h = 47.0 km MB = 4.7
				D = 78.72 Az = 334 (NEIS)
23.	ePKP	A	10 27 22	Fiji Islands Region 17.50 S 178.97 W
				H = 10 08 41.0 h = 528.6 km MB = 5.4
				D = 145.87 Az = 348 (NEIS)
				PKPV A 1.2s 44.7nm
23.	e	A	18 27 03.5	North Atlantic Ocean 35.95 N 17.91 W
				H = 18 21 18.1 h = 33.0 km MB = 4.7
				D = 25.81 Az = 46 (NEIS)
23.	eP	A	21 38 13	Dodecanese Islands 36.70 N 26.77 E
				H = 21 34 14.8 h = 166.3 km MB = 4.6
				D = 17.68 Az = 327 (NEIS)
				PV A 1.3s 48.0nm M = 4.7
24.	eP	A	01 07 45	South of Honshu, Japan 32.10 N 142.29 E
	ePP	B	11 08	H = 00 55 04.6 h = 51.0 km MB = 5.6
	eS	B	18 22	D = 86.81 Az = 331 (NEIS)
	LmH	B	52.7	PV A 1.6s 126.4nm M = 6.1
	LmV	B	54.8	LmH B 16 1.3/um 5.4
				LmV B 17 2.1/um 5.7
24.	ePKP	A	02 07 33	Tonga Islands 20.54 S 173.99 W
	ePPP	C	14 30	H = 01 47 49.7 h = 33.0 km MB=6.1 MS=6.5
	LmH	B	03 19.7	D = 149.63 Az = 353 (NEIS)
	LmV	B	22.3	PKPV A 2.8s 1266.1nm
				PKPV B 5.5 3.0/um
				LmH B 17.5 4.0/um M = 6.2
				LmV B 18.5 6.0/um 6.4
24.	eP	A	07 17 31	South of Honshu, Japan 32.22 N 142.30 E
				H = 07 04 48.7 h = 33.0 km MB = 4.9
				D = 86.71 Az = 331 (NEIS)

Day	Phase		h m s	Remarks
24.	eP	A	10 20 20.5	Ascension Island Region 11.82 S 14.17 W
				H = 10 09 36.1 h = 33.0 km MB = 4.8
				D = 66.15 Az = 18 (NEIS)
				PV A 1.6s 22.0nm M = 5.0
24.	eP	A	11 03 54	Ascension Island Region 11.4 S 14.0 W
				H = 10 53 07.3 h = 33 km
				D = 65.73 Az = 18 (ISC)
24.	eP	AB	11 13 46.5	South Atlantic Ridge 11.96 S 14.49 W
	eS	B	22 40	H = 11 03 00.5 h = 33.0 km MB=5.4 MS=6.1
	eSS	B	26 48	D = 66.38 Az = 18 (NEIS)
	LmH	B	41.4	PV A 2.0s 102.6nm M = 5.9
	LmV	B	43.9	LmH B 19 7.7/um 5.9
				LmV B 16 9.4/um 6.1
24.	eP	A	15 46 28	Turkey 38.58 N 40.53 E
	LmH	B	58.4	H = 15 41 15.6 h = 33.0 km MB = 4.6
	LmV	B	58.6	D = 23.69 Az = 310 (NEIS)
				PV A 1.4s 23.3nm M = 4.5
				LmH B 16 0.6/um 4.1
				LmV B 16 0.7/um 4.4
24.	eP	A	17 32 29.5	Gulf of California 25.15 N 109.26 W
	eS	B	43 18	H = 17 19 37.2 h = 33.0 km MB=5.5 MS=5.7
	eSS	B	49 00	D = 88.29 Az = 33 (NEIS)
	LmH	B	18 08.9	PV A 1.4s 18.6nm M = 5.2
	LmV	B	10.9	LmH B 19 10.9/um 6.3
				LmV B 17 8.8/um 6.3
24.	eP	A	18 05 57	Near East Coast of Kamchatka
				54.59 N 160.14 E
				H = 17 54 41.8 h = 94.0 km MB = 5.3
				D = 71.87 Az = 340 (NEIS)
24.	LmH	B	21 29.6	Ryukyu Islands 29.29 N 129.47 E
	LmV	B	36.3	H = 20 42 02.0 h = 42.3 km
				D = 83.37 Az = 325 (NEIS)
				LmH B 16.5s 4.1/um M = 5.9
				LmV B 16 3.5/um 5.9

Day	Phase		h m s	Remarks
24.	eP	A	21 41 30.5	Ryukyu Islands 29.27 N 129.24 E
	e	A	44(35)	H = 21 29 04.8 h = 33.0 km MB = 5.2
	ePP	A	44 41	D = 83.27 Az = 325 (NEIS)
	LmH	B	22 16.6	PV A 1.8s 30.4nm M = 5.1
	LmV	B	23.4	LmH B 16 8.2/um 6.2
				LmV B 15 7.9/um 6.2
24.	e(P)	A	22 53 24	Ryukyu Islands 28.58 N 129.35 E
				H = 22 40 54.2 h = 33.0 km MB = 4.9
				D = 83.89 Az = 325 (NEIS)
24.	eP	A	22 57 35.5	Ryukyu Islands 29.17 N 129.53 E
	LmH	B	23 39.4	H = 22 45 07.7 h = 23.5 km MB = 5.3
	LmV	B	39.4	D = 83.50 Az = 326 (NEIS)
				PV A 2.0s 25.6nm M = 5.1
				LmH B 14 3.8/um 5.9
				LmV B 14 5.0/um 6.1
24.	LmH	B	23 09.7	Ryukyu Islands 29.40 N 129.35 E
	LmV	B	16.5	H = 22 22 10.0 h = 33.0 km MB = 4.5
				D = 83.22 Az = 325 (NEIS)
				LmH B 16s 7.8/um M = 6.2
				LmV B 16 5.4/um 6.1
24.	ePKP	A	23 19 03.5	Fiji Islands Region 18.07 S 178.64 W
				H = 23 00 29.0 h = 608.1 km MB = 5.1
				D = 146.48 Az = 348 (NEIS)
25.	eP	A	00 32 00	Ryukyu Islands 29.44 N 129.48 E
	LmH	B	01 07.2	H = 00 19 35.1 h = 33.0 km MB=5.1 MS=4.8
	LmV	B	12.7	D = 83.25 Az = 325 (NEIS)
				LmH B 16s 3.5/um M = 5.8
				LmV B 14 1.9/um 5.7
25.	eP	A	03 41 19	Ryukyu Islands 29.34 N 129.31 E
	LmH	B	04 16.6	H = 03 28 52.0 h = 33.0 km MB=5.0 MS=4.5
	LmV	B	22.7	D = 83.25 Az = 325 (NEIS)
				LmH B 16s 5.6/um M = 6.0
				LmV B 14 2.3/um 5.7

Day	Phase		h m s	Remarks
25.	ePKIKP	A	08 40 35	Fiji Islands Region 18.46 S 177.86 W
	ePKHKP	A	40 37.5	H = 08 21 59.5 h = 590.7 km MB = 4.8
	epPKP	A	42 50	D = 147.01 Az = 349 (NEIS)
				PKHKPV A 1.5s 30.2nm
				pPKPV A 2.6 69.4nm
25.	e(P)	A	12 53 32.5	Banda-Sea 7.24 S 127.97 E
	LmH	C	13 53.4	H = 12 34 07 h = 20 km MB = 5.5
	LmV	C	53.5	D = 112.14 Az = 322 (ISC)
				PV A 2.2s 70.9nm
25.	ePKIKP	A	18 29 14	Solomon Islands 6.47 S 154.93 E
				H = 18 10 16.4 h = 61.0 km MB = 5.5
				D = 126.42 Az = 332 (NEIS)
25.	LmH	B	21 12.2	Ryukyu Islands 29.21 N 129.33 E
	LmV	B	17.0	H = 20 24 09.2 h = 50 km (ISC)
				D = 83.3
				LmH B 15s 1.5/um M = 5.5
				LmV B 15 0.7/um 5.2
26.	ePKHKP	A	04 37 38	South of Fiji Islands 23.44 S 179.16 E
				H = 04 18 47.0 h = 545.2 km MB = 3.8
				D = 151.17 Az = 343 (NEIS)
26.	eP	A	13 37 30.5	Greece - Albania Border Region
				39.3 N 19.0 E
				H = 13 33 14 h = 0 km (ISC)
				D = 17.5
26.	eP	A	22 02 07.5	Panama 7.31 N 78.13 W
	LmH	C	35.0	H = 21 49 37.5 h = 33.0 km MB=5.2 MS=4.4
	LmV	C	35.2	D = 84.24 Az = 40 (NEIS)
				PV A 1.5s 20.1nm M = 5.1
				LmH C 20 0.3/um 4.7
				LmV C 22 0.3/um 4.6

Day	Phase		h m s	Remarks
27.	eP	A	22 46 54	Northern California 39.51 N 121.54 W
				H = 22 34 38.1 h = 8.0 km MB=5.3 MS=3.5
				D = 81.27 Az = 28 (NEIS)
27.	eP	A	22 50 33.5	Iceland Region 62.22 N 26.56 W
	LmV	B	23 01.0	H = 22 45 22.7 h = 33.0 km MB = 4.4
	LmH	B	01.3	D = 23.69 Az = 102 (NEIS)
				LmH B 12s 0.8/um M = 4.4
				LmV B 16 1.2/um 5.6
28.	ePKIKP	A	04 14 37.5	Fiji Islands Region 18.01 S 178.39 W
	ePKHKP	A	14 40	H = 03 56 05.2 h = 612.0 km MB = 5.3
				D = 146.47 Az = 348 (NEIS)
				PKHKPV A 1.4s 23.3nm
28.	ePKHKP	A	09 32 58.5	South of Fiji Islands 24.60 S 179.69 W
	ePKP2	A	33 10.5	H = 09 13 58.3 h = 500.0 km MB = 5.2
				D = 152.57 Az = 344 (NEIS)
28.	e	A	13 09 48	
28.	LmH	C	16 07.1	Off Coast of Mexico 8.2 N 102.6 W
	LmV	C	07.1	H = 15 15 46.1 h = 33 km
				MB = 4.4 MS = 4.3 (NEIS)
				D = 98.6
				LmH C 26s 0.4/um M = 4.8
				LmV C 25 0.5/um 5.0
28.	eP	A	20 30 57	Kurile Islands 47.15 N 152.84 E
				H = 20 19 13.3 h = 99.5 km MB = 4.5
				D = 77.00 Az = 336 (NEIS)
				PV A 1.1s 10.1nm M = 4.5
29.	eP	A	12 22 19	Tadzhik-Sinkiang Border Region
	LmH	B	41.2	39.33 N 73.82 E
	LmV	B	41.9	H = 12 14 12.6 h = 57.3 km MB = 4.9
				D = 44.19 Az = 306 (NEIS)
				PV A 1.2s 12.2nm M = 4.6
				LmH B 17.5 2.1/um
				LmV B 17.5 0.8/um

Day	Phase		h m s	Remarks
29.	eP	A	13 54 12	Burma 18.30 N 96.37 E
	eS	C	14 03 44	H = 13 42 47.1 h = 63.8 km MB = 5.1
	LmH	B	25.9	D = 72.78 Az = 318 (NEIS)
	LmV	B	29.6	PV A 2.0s 16.9nm M = 5.3
				LmH B 22s 4.9/um
				LmV B 20 2.0/um
29.	eP	A	14 50 28	Molucca Sea 0.48 S 124.70 E
	ePP	A	54 54	H = 14 36 21.9 h = 23.0 km MB=5.7 MS=6.1
	eSKS	C	15 01 08	D = 104.83 Az = 323 (NEIS)
	ePS	C	03 55	LmH B 22s 4.0/um M = 5.9
	ePPS	C	04 55	LmV B 22 9.9/um 6.3
	eSS	C	10 00	
	eSSS	C	15 00	
	LmH	B	40.5	
	LmV	B	40.8	
29.	eP	A	15 19 30	Talaud Islands 3.67 N 127.05 E
				H = 15 02 38.3 h = 67.4 km MB = 5.3
				D = 102.93 Az = 324 (NEIS)
				PV A 1.4s 14.0nm M = 5.5
29.	ePKHKP	A	19 09 04	South of Tonga Islands 25.13 S 175.59 W
	ePKP2	A	09 15	H = 18 49 06.4 h = 33.0 km MB = 5.4 (NEIS)
	e	A	09 29	D = 153.9
	LmH	C	20 33.7	PKHKPV A 2.2s 43.6nm
	LmV	C	36.0	
30.	eP	A	04 04 08	Peru 9.55 S 74.65 W
	epP	A	04 44	H = 03 50 59.3 h = 135.0 km MB = 5.8
				D = 94.95 Az = 40 (NEIS)
				h = 147 km
				PV A 2.3s 121.9nm M = 5.9
30.	eP	A	07 53 09	Tyrrhenian Sea 39.58 N 14.85 E
				H = 07 50 34.1 h = 324.6 km MB = 3.7
				D = 11.30 Az = 349 (NEIS)

Day	Phase		h m s	Remarks
30.	eP	A	15 48 00	Guatemala 14.32 N 91.03 W
	e	A	48 16	H = 15 35 24.4 h = 106.9 km MB = 4.8
				D = 86.88 Az = 38 (NEIS)
30.	eP	AC	18 31 07	Southern Sumatra 4.93 S 102.20 E
	ePP	A	35 04	H = 18 17 49.5 h = 33.0 km
	eS	C	42 15	MB = 5.6 MS = 6.0 (NEIS)
	ePS	C	43 35	D = 94.2
	eSS	C	48 50	LmH B 17s 1.6/um M = 5.6
	LmH	B	37.4	LmV B 16 1.7/um 5.6
	LmV	B	38.4	

Day	Phase		h m s	Remarks
1.	eP	A	03 43 17.5	Southern Sumatra 4.88 S 102.20 E
	ePP	B	47 00	H = 03 29 58.9 h = 33 km
	eSKS	B	53 44	MB = 6.2 MS = 7.0 (NEIS)
	eS	B	54 20	D = 94.2
	LmH	B	33.4	PV A 1.6s 82.4nm M = 5.9
	LmV	B	33.5	LmH B 20 3.2/um 5.8
				LmV B 20 5.8/um 6.1
1.	+eP	A	04 26 45	Southern Sumatra 4.83 S 102.10 E
	e	A	26 54.5	H = 04 13 28.4 h = 33 km MB = 6.0
				D = 94.00 Az = 320 (NEIS)
				PV A 1.8s 114.7nm M = 6.0
1.	eP	A	04 28 28	Southern Sumatra 4.83 S 102.07 E
	e	A	28 40	H = 04 15 12.4 h = 33 km MB = 5.8 (NEIS)
				D = 94.2
				PV A 2.2s 98.1nm M = 5.9
1.	eP	A	07 43 43	Off East Coast of Honshu, Japan
				33.62 N 142.00 E
				H = 07 31 07.8 h = 35 km MB = 4.7
				D = 85.36 Az = 331 (NEIS)
				traces
2.	ePKHKP	A	04 00 07.5	Tonga Islands 20.43 S 173.85 W
				H = 03 40 19.0 h = 33 km MB = 4.5
				D = 149.54 Az = 353 (NEIS)
2.	+iP	AB	11 18 40.5	Hokkaido, Japan Region 43.20 N 145.89 E
	e	A	19 14.5	H = 11 06 46.5 h = 75 km MB = 5.8 (NEIS)
	LmH	C	49.0	D = 78.4
	LmV	C	49.7	PV A 1.5s 70.4nm M = 5.4
				LmH C 28 0.5/um
				LmV C 32 0.5/um
2.	e	A	16 03 23	Greece - Albania Border Region
	LmH	C	08.8	40.2 N 20 1/2 E
	LmV	C	08.8	H = 15 59 44 (BCIS)

Day	Phase		h m s	Remarks
cont. 2.				D = 12.19
				LmH C 12s 0.6/um M = 3.8
				LmV C 15 0.4/um
2.	ePKP	A	18 59 23	Fiji Islands Region 18.00 S 178.52 W
				H = 18 40 49.2 h = 617.3 km MB = 5.1
				D = 146.44 Az = 348 (NEIS)
2.	eP	A	19 41 46	Tadzhik SSR 39.08 N 71.49 E
				H = 19 33 45.9 h = 22.6 km MB = 4.3
				D = 42.87 Az = 306 (NEIS)
3.	ePKHKP	A	02 45 05	Fiji Islands Region 19.54 S 177.69 W
				H = 02 26 03.3 h = 389.1 km MB = 4.6
				D = 148.09 Az = 349 (NEIS)
3.	eP1	AC	05 22 43.5	Pakistan 30.25 N 66.32 E
	eP2	A	23 06	H = 05 14 23.3 h = 11.2 km
	ePP	C	24 40	MB = 5.8 MS = 6.7 (NEIS)
	eS	B	29 24	D = 45.2
	eSS	B	32 30	P1V A 1.8s 108.0nm M = 5.4
	LmH	B	47.5	P2V A 1.7 303.0nm 5.9
	LmV	B	47.5	LmH B 14 73.7/um 6.8
				LmV B 14 88.8/um 6.9
3.	ePn	A	07 18 43.5	Austria 47.77 N 11.76 E
	e	A	19 00	H = 07 17 58.9 h = 101 km
	e(Sn)	A	19 21	D = 2.89 Az = 358 (ISC)
	eSg	A	19 36	
3.	eP	AB	10 05 17	Rat Islands, Aleutian Islands
	eS	B	15 12	51.54 N 174.95 E
	eSS	B	20 12	H = 09 53 22.6 h = 13 km
	LmH	B	43.9	MB = 5.2 MS = 5.2 (NEIS)
	LmV	B	47.3	D = 77.3
				PV A 2.5s 123.0nm M = 5.5
				LmH B 17 1.6/um 5.4
				LmV B 16 1.1/um 5.3

Day	Phase		h m s	Remarks
3.	ePKIKP	A	13 28 32	Flores Sea 7.84 S 122.85 E
				H = 13 10 28.3 h = 243.7 km MB = 5.5
				D = 109.45 Az = 321 (NEIS)
3.	eP	A	13 51 03.5	Southern Sumatra 4.62 S 103.25 E
				H = 13 37 42.8 h = 33 km MB = 5.5
				D = 94.58 Az = 320 (NEIS)
3.	eP	A	15 03 30	Turkey 38.53 N 40.71 E
	LmH	B	14.0	H = 14 58 15.1 h = 33 km MB = 4.7
	LmV	B	14.8	D = 23.83 Az = 310 (NEIS)
				LmH B 20s 0.7/um M = 4.1
				LmV B 20 0.7/um 4.2
3.	iPn	A	15 46 00.8	D c. 2.5
	eSg	A	46 41	
3.	eP	AB	17 39 53.5	Pakistan 30.41 N 66.35 E
	ePP	C	41 50	H = 17 31 35.8 h = 33 km
	eS	B	46 34	MB = 5.7 MS = 6.4 (NEIS)
	eSS	B	49 40	D = 45.2
	LmH	B	18 01.8	PV A 2.0s 248.0nm M = 5.7
	LmV	B	04.5	LmH B 16 26.1/um 6.3
				LmV B 14 34.6/um 6.5
3.	eP	A	18 03 22.5	Pakistan 30.42 N 66.47 E
				H = 17 55 03.7 h = 33 km MB = 4.9
				D = 45.16 Az = 313 (NEIS)
3.	-iP	AB	18 38 47	Iceland 64.44 N 17.29 W
				H = 18 34 08.0 h = 33 km MB = 5.4
				D = 20.51 Az = 119 (NEIS)
				PV A 1.6s 385.0nm M = 5.5
3.	eP	A	19 16 25.5	Pakistan 30.47 N 66.49 E
				H = 19 08 07.3 h = 22.5 km MB = 4.9
				D = 45.14 Az = 313 (NEIS)

Day	Phase		h m s	Remarks
4.	eP	A	00 29 51	Southern Sumatra 5.04 S 102.37 E
				H = 00 16 32.7 h = 33 km MB = 5.5
				D = 94.34 Az = 320 (NEIS)
4.	LmV	B	05 18.7	Balleny Islands Region 62.51 S 154.8 E
	LmH	B	19.0	H = 03 40 19.6 h = 33 km
				D = 156.85 Az = 256 (ISC)
				LmV B 20.s 0.45/um M = 5.3
4.	ePn	A	09 47 03	Czechoslovakia 49.7 N 18.8 E
	eSb	A	48 09	H = 09 45 49 h = 0 km
				D = 4.74 Az = 284 (ISC)
4.	e(Sg)	A	16 33 13	
4.	eP	A	20 27 32	Off East Coast of Honshu, Japan
				33.70 N 142.13 E
				H = 20 14 54.0 h = 17.6 km MB = 5.0
				D = 85.35 Az = 331 (NEIS)
				PV A 1.2s 20.3nm M = 5.2
4.	eP	A	21 40 50	South of Panama 6.38 N 82.66 W
	eSKS	C	51 30	H = 21 27 59.6 h = 33 km MB = 5.3 (NEIS)
	ePS	C	52 30	D = 87.8
	eSS	C	57 20	PV A 1.5s 20.1nm M = 5.2
	LmH	B	22 13.8	LmH B 22 1.8/um 5.5
	LmV	B	13.8	LmV B 20 1.3/um 5.4
4.	eP	A	23 25 15	South of Panama 6.40 N 82.52 W
	eSKS	B	35 48	H = 23 12 25.5 h = 33 km
	ePS	C	36 52	MB = 5.3 MS = 5.8 (NEIS)
	eSS	B	41 52	D = 87.7
	LmH	B	58.3	PV A 1.3s 30.6nm M = 5.9
	LmV	B	24 11.9	LmH B 23 5.4/um 5.9
				LmV B 16 3.6/um 5.9

Day	Phase		h m s	Remarks
5.	eP	A	15 44 56.5	Philippine Islands Region
	ePP	A	49 14.5	6.24 N 127.09 E
	LmH	B	16 37.0	H = 15 31 12.8 h = 66.1 km MB = 5.5
	LmV	B	37.8	D = 100.89 Az = 324 (NEIS)
				PV A 1.4s 14.0nm M = 5.4
				LmH B 20 1.2/um
				LmV B 16 1.5/um
5.	ePKHKP	A	16 21 03	Tonga Islands 18.89 S 174.35 W
	e	A	21 21	H = 16 01 20.9 h = 33 km MB = 5.1
				D = 147.96 Az = 353 (NEIS)
5.	ePKP	A	16 53 02	Easter Island Cordillera
				49.78 S 115.32 W
				H = 16 33 21.2 h = 33 km MB = 4.5
				D = 146.63 Az = 68 (NEIS)
				PKPV A 1.6s 27.5nm
6.	eP	A	05 38 02	Off East Coast of Honshu, Japan
				33.53 N 141.97 E
				H = 05 25 24.2 h = 20.9 km MB = 4.9
				D = 85.43 Az = 331 (NEIS)
				PV A 1.2s 20.3nm M = 5.2
6.	ePKIKP	A	10 11 10.5	South of Fiji Islands 25.35 S 179.89 W
	ePKHKP	A	11 18.5	H = 09 52 16.8 h = 491.5 km MB = 5.3
	ePKP2	A	11 33	D = 153.23 Az = 344 (NEIS)
	epPKP	A	13 29.5	PKHKPV A 1.2s 28.4nm
				PKP2V A 1.2 32.6nm
6.	eP	A	21 32 17.5	Crete 34.24 N 25.11 E
				H = 21 27 55.9 h = 37.6 km MB = 4.2
				D = 19.13 Az = 333 (NEIS)
6.	eP	A	22 29 58.5	North Atlantic Ocean 44.52 N 56.84 W
				H = 22 21 41.3 h = 33 km MB = 5.2
				D = 45.08 Az = 57 (NEIS)

Day	Phase		h m s	Remarks
6.	ePKIKP	AB	22 43 35.5	Santa Cruz Islands 12.52 S 166.50 E
	e	AB	44 00	H = 22 24 16.2 h = 53.9 km MB=6.6 MS=7.0
	ePP	B	46 18	D = 136.80 Az = 337 (NEIS)
	e	A	46 33	PKIKPV B 14s 4.4 2/um
	e	B	46 44	LmH B 20 45.0/um
	e	B	56 00	LmV B 19 44.0/um
	LmH	B	23 49.0	
	LmV	B	50.6	
7.	-ePKIKP	A	06 57 13	New Hebrides Islands 15.41 S 167.52 E
				H = 06 37 57.4 h = 115 km MB = 5.6
				D = 139.83 Az = 336 (NEIS)
				PKIKPV A 1.7s 48.5nm
7.	+iP1	AB	08 38 09.5	Central Mid-Atlantic Ridge
	-iP2	A	38 18.3	0.90 N 26.77 W
	ePP	C	40 16	H = 08 28 09.5 h = 33 km MB=6.2 MS=6.7
	eiPPP	C	41 50	D = 59.27 Az = 27 (NEIS)
	eiS1	BC	46 16	P1V A 2.0s 974.4nm M = 6.6
	eiSSS	C	52 38	P1V B 10 6.1/um 6.7
	LmH	B	09 00.8	P2V A 1.8 959.5/um 6.6
	LmV	B	00.8	PPV C 13 4.1/um 6.6
	eP'P'	A	07 54	PPPV C 14 8.6/um
				SH B 15 19.6/um 6.7
				LmH B 20 29.3/um 6.4
				LmV B 19 27.0/um 6.5
				P'P'V A 1.8s 40.5nm
7.	+eP	A	13 28 45.5	Central Mid-Atlantic Ridge
	ePPP	C	32 25	0.87 N 26.50 W
	eS	C	36 57	H = 13 18 45.9 h = 33 km MB=5.6 MS=5.5
	eSSS	C	43 25	D = 59.17 Az = 27 (NEIS)
	LmH	B	51.5	PV A 1.8s 182.4nm M = 5.9
	LmV	B	53.5	LmH B 20 2.4/um 5.3
				LmV B 19 2.6/um 5.5

Ddy	Phase		h m s	Remarks
7.	ePKHKP	A	18 35 54.5	Fiji Islands Region 20.37 S 178.42 W
				H = 18 17 04.5 h = 506 km
				D = 148.76 Az = 348 (ISC)
				PKHKPV A 1.1s 16.1nm
8.	eP	AC	08 23 21	Southern Iran 28.20 N 55.66 E
	ePP	C	24 55	H = 08 15 50.0 h = 51.1 km MB = 5.3
	eS	C	29 45	D = 39.97 Az = 316 (NEIS)
	LmH	B	40.3	PV A 1.8s 33.8nm M = 4.9
	LmV	B	46.3	LmH B 19 2.1/um
				LmV B 14 2.0/um
8.	eP	A	10 40 33	Mindoro, Philippine Islands
	e	A	40 45.5	13.94 N 120.16 E
	ePP	A	44 17.5	H = 10 27 36.7 h = 67.6 km MB = 5.3 (NEIS)
	eS	C	51 25	D = 90.6
	LmH	B	11 26.0	LmH B 16.5s 1.5/um
	LmV	B	26.8	LmV B 16 1.4/um
8.	ePKP	A	17 37 17	Tonga Islands 17.63 S 173.92 W
	e	A	37 42	H = 17 17 40.7 h = 64.9 km MB = 4.9 (NEIS)
				D = 146.7
				PKPV A 1.6s 27.5nm
8.	eP	A	21 59 55	Kyushu, Japan 32.72 N 130.73 E
				H = 21 47 56.8 h = 155 km MB = 4.9 (NEIS)
				D = 81.1
				PV A 1.0s 13.8nm M = 4.6
9.	eP	A	10 29 42	Near East Coast of Honshu, Japan
				38.26 N 141.96 E
				H = 10 17 29.7 h = 53 km MB = 5.0 (NEIS)
				D = 81.2
				PV A 1.5s 25.1nm M = 5.0
9.	LmV	B	14 30.1	Near Coast of Peru 12.24 S 77.91 W
	LmH	B	30.2	H = 13 34 16.9 h = 41 km MB = 5.4 (ISC)
				D = 99.0
				LmH B 18s 0.6/um M = 5.1
				LmV B 19 1.0/um 5.4

Day	Phase	h m s	Remarks
9.	eP A	21 23 13	Pakistan 27.09 N 65.69 E
			H = 21 14 39.6 h = 40 km MB = 4.9 (NEIS)
			D = 47.0
10.	ePKIKP A	06 08 57	South of Fiji Islands 22.16 S 179.59 W
	ePKHKP A	09 03.5	H = 05 50 17.3 h = 574.7 km MB = 5.0 (NEIS)
	ePKP2 A	09 13	D = 150.1
			PKHKPV A 1.3s 32.5nm
10.	LmH C	09 38.7	Santa Cruz Islands 12.6 S 166.0 E
	LmV C	40.9	H = 08 12 57 h = 33 km (ISC)
			D = 136.8
			LmH C 18s 0.25/um M = 5.0
			LmV C 18 0.35/um 5.1
10.	LmH B	17 12.8	New Hebrides 13.04 S 165.90 E
	LmV B	13.4	H = 15 47 20.9 h = 41 km MB = 5.0 (ISC)
			D = 137.2
			LmH B 18s 0.4/um M = 5.2
			LmV B 17 0.4/um 5.3
11.	eP A	03 38 14	Kurile Islands 46.02 N 151.99 E
			H = 03 26 18.8 h = 33 km MB = 4.5 (NEIS)
			D = 77.7
11.	ePP A	07 50(07)	Bismarck Sea 3.39 S 148.57 E
	ePS C	08 00 00	H = 07 29 49.4 h = 33 km
	eSS C	07 00	MB = 5.2 MS = 5.4 (NEIS)
	LmV B	40.7	D = 120.6
	LmH B	40.8	LmH B 21s 2.6/um M = 5.9
			LmV B 22.5 3.8/um 6.0
11.	eP diff BC	14 53 06	South of Tonga Islands 24.89 S 175.12 W
	e A	54 07	H = 14 35 15.0 h = 9.4 km
	e A	54 18.5	MB = 7.0 MS = 7.8 (NEIS)
	ePKIKP1 A	55 06	D = 153.8
	+iPKIKP2 AB	55 09	PKIKP2V A 3.3s 5570.0nm
	iPKHKP A	55 18	PKIKP2V B 10.5 35.8/um
	iPKP2 A	55 36	LmH B 21 179.0/um M = 7.8

Day	Phase	h m s	Remarks
cont. 11.	ePP B	14 59 00	LmV B 19s 195.0/um M = 7.9
	e B	15 08 50	
	eSKSP B	09 15	
	ePPS B	12 12	
	eSS B	18 40	
	eSSP B	19 30	
	LmH B	16 10.6	
	LmV B	10.8	
11.	ePKIKP A	15 14 47	South of Tonga Islands 24.04 S 175.38 W
	ePKHKP A	14 55	H = 14 55 00.3 h = 33 km MB = 6.1 (NEIS)
	ePKP2 A	15 05.5	D = 152.9
			PKIKPV A 2.0s 111.0nm
11.	ePKIKP A	18 19 52	Bismarck Sea 3.34 S 148.52 E
	e A	20 19.5	H = 18 00 59.6 h = 33 km MB = 5.7 (NEIS)
	ePP A	21 23	D = 120.6
	eX A	21 40	XV A 2.2s 136.3nm
12.	eP A	08 26 50.5	Southern Greece 37.88 N 23.12 E
	LmH B	32.7	H = 08 23 10.7 h = 24 km MB = 4.9 (NEIS)
	LmV B	33.6	D = 15.25
			PV A 1.0s 15.7nm M = 4.3
			LmH B 10 2.9/um 4.7
			LmV B 11 1.7/um 4.6
12.	eP A	11 39 18	Greenland Sea 72.96 N 5.9 E
			H = 11 34 12.3 h = 0 km
			D = 22.53 Az = 170 (ISC)
			PV A 1.4s 23.3nm M = 4.5
12.	ePKP2 A	16 22 19	Kermadec Islands Region 27.91 S 178.62 W
			H = 16 02 34.4 h = 326 km MB = 4.2 (NEIS)
			D = 156.0
			PKP2V A 1.4s 14.0nm
12.	ePn A	19 04 26	Austria 47.4 N 10.8 E
	eSn A	05 06.5	H = 19 03 21 (BCIS)
			D = 3.79

Day	Phase		h m s	Remarks
13.	eP	A	12 07 37	Central Mid-Atlantic Ridge
	e(PS)	C	15 56	0.83 S 22.07 W
	LmH	C	39.0	H = 11 57 38 h = 15 km MB = 5.0
	LmV	C	43.6	D = 58.76 Az = 24 (ISC)
				LmH C 16s 0.7/um M = 4.9
				LmV C 15 0.6/um 4.9
13.	+ePKHKP	A	21 11 17.5	South of Tonga Islands 24.84 S 175.44 W
	ePKP2	A	11 31	H = 20 51 20.2 h = 34.6 km MB = 5.5
				D = 153.67 Az = 350 (NEIS)
				PKHKPV A 2.0s 68.4nm
13.	ePKHKP	A	22 32 35	South of Tonga Islands 24.90 S 175.30 W
	ePKP2	A	32 46	H = 22 12 37.5 h = 33 km MB = 5.2 (NEIS)
	LmH	C	23 58.5	D = 153.7
	LmV	C	24 02.0	PKHKPV A 2.2s 54.5nm
				LmH C 18 0.3/um M = 5.1
				LmV C 15 0.35/um 5.3
14.	e(PKP2)	A	03 21 15	Kermadec Islands 30.08 S 177.21 W
				H = 03 00 43.5 h = 107 km MB = 4.5 (NEIS)
				D = 158.4
14.	ePKP	A	09 29 58	South of Tonga Islands 25.01 S 175.27 W
				H = 09 10 04.9 h = 33 km MB = 5.0
				D = 153.86 Az = 350 (NEIS)
				traces
14.	e	A	17 43 31	
14.	ePKHKP	A	19 31 53.5	South of Fiji Islands 24.65 S 176.19 W
	LmH	B	20 54.9	H = 19 12 05.9 h = 112.4 km MB = 5.1
	LmV	B	21 00.7	D = 153.36 Az = 349 (NEIS)
				PKHKPV A 1.6s 22.0nm
				LmH B 16 0.6/um
				LmV B 16 0.6/um

Day	Phase		h m s	Remarks
15.	ePKP2	A	00 40 49	West of Macquarie Island
	LmH	C	02 00.5	57.36 S 147.63 E
	LmV	C	01.4	H = 00 20 39.9 h = 33 km
				D = 153.68 Az = 274 (NEIS)
				LmV C 20s 0.5/um
15.	eP	A	15 04 51	Ryukyu Islands 29.21 N 129.99 E
	LmH	B	46.3	H = 14 52 21.0 h = 12.1 km MB = 5.2
	LmV	B	46.3	D = 83.69 Az = 326 (NEIS)
				PV A 2.0s 34.2nm M = 5.2
				LmH B 16 0.9/um 5.3
				LmV B 17.5 1.3/um 5.4
15.	ePKP2	A	17 44 40	South of Tonga Islands 24.75 S 175.18 W
				H = 17 24 32.0 h = 33 km MB = 5.4
				D = 153.61 Az = 350 (NEIS)
16.	eP	A	03 26 32	Kurile Islands Region 43.20 N 147.99 E
				H = 03 14 29.7 h = 40 km MB = 4.8
				D = 79.10 Az = 333 (NEIS)
16.	ePKHKP	A	03 57 38	South of Tonga Islands 24.75 S 175.59 W
	ePKP2	A	57 48	H = 03 37 42.5 h = 33 km MB = 5.4 MS=5.0
				D = 153.55 Az = 350 (NEIS)
16.	ePKHKP	A	07 49 06	South of Tonga Islands 24.64 S 175.80 W
				H = 07 29 10.7 h = 30 km MB = 4.6 (NEIS)
				D = 153.3
17.	epP	A	01 17 25	Afghanistan - USSR Border Region
				37.39 N 71.39 E
				H = 01 09 05.4 h = 85.2 km MB = 4.9
				D = 43.82 Az = 307 (NEIS)
17.	ePKHKP	A	02 18 22.5	South of Fiji Islands 23.33 S 179.15 E
	epPKP	A	20 38	H = 01 59 30.2 h = 540 km MB = 5.0 (NEIS)
				D = 151.0
				PKHKPV A 1.1s 36.3nm

Day	Phase		h m s	Remarks
17.	ePKIKP	A	03 50 17.5	Banda Sea 7.47 S 128.7 E
	eX	A	51 04	H = 03 31 52.2 h = 109 km MB = 6.3
	ePP	AB	51 11	D = 112.79 Az = 322 (NEIS)
	esPP	C	51 50	PKIKPV A 1.3s 30.6nm
	eSP	C	04 00 25	XV A 1.5 55.3nm
	esSP	B	01 20	PPV A 2.5 353.6nm M = 6.6
	LmH	B	31.8	LmH B 18 1.2/um
	LmV	B	40.6	LmV B 20 1.3/um
17.	LmH	B	05 57.0	LmH B 16s 0.25/um
	LmV	B	57.0	LmV B 16 0.45/um
17.	e(P)	A	08 57 47	Algeria 37.0 N 3 1/2 E
				H = 08 54 23 (BCIS)
				D = 14.92
17.	ePKP	A	16 31 46	Tonga Islands 19.10 S 175.72 W
				H = 16 12 30.4 h = 266.5 km MB=4.9 (NEIS)
				D = 147.9
				PKPV A 1.8s 40.6nm
17.	eP	A	18 10 11	Hokkaido, Japan Region 42.37 N 144.93 E
	epP	A	10 25	H = 17 58 11.6 h = 44.9 km
	LmV	B	48.8	MB = 5.2 MS = 4.0 (NEIS)
	LmH	B	49.2	h = 59 km
				D = 78.7
				PV A 2.0s 68.4nm M = 5.3
				LmH B 16 0.9/um 5.2
				LmV B 16 1.1/um 5.3
17.	eP	AB	19 50 29	Gulf of Alaska 57.45 N 149.01 W
	eS	B	59 48	H = 19 39 12.5 h = 33 km
	eSS	B	20 04 25	MB = 5.7 MS = 5.5 (NEIS)
	LmH	B	22.5	D = 70.8
	LmV	B	25.7	PV A 1.4s 88.5nm M = 5.6
				LmH B 22 1.6/um 5.2
				LmV B 17.5 2.0/um 5.5

Day	Phase		h m s	Remarks
18.	ePKHKP	A	01 11 44	Fiji Islands Region 18.84 S 177.71 W
	ePKP2	A	11 53	H = 00 53 08.9 h = 628 km MB = 4.4
				D = 147.41 Az = 349 (ISC)
18.	+iP	AB	09 05 49	Novaya Zemlya 70.84 N 53.69 E
	ePn	B	06 10	H = 08 59 56.3 h = 0 km
	eS	B	10 35	MB = 6.7 MS = 5.1 (NEIS)
	eSn	B	10 58	Underground explosion MB = 6.3 (UPP)
	LmH	B	17.6	D = 27.7
	LmV	B	17.7	PV A 1.0s 1280.0nm M = 6.5
	e	A	38(38)	LmH B 7.0 7.4/um 5.7
	e	A	39 13	LmV B 12.0 7.6/um 5.6
19.	ePKP	A	08 01 59.5	Fiji Islands Region 17.87 S 178.40 W
				H = 07 43 23.6 h = 590.5 km MB = 4.7 (NEIS)
				D = 146.4
				PKPV A 2.0s 47.0nm
19.	ePKP2	A	14 48 20	South of Tonga Islands 23.97 S 175.90 W
				H = 14 28 17.3 h = 43 km
				MB = 5.1 MS = 4.7 (NEIS)
				D = 152.7
19.	eP	A	15 02 48	Mariana Islands Region 21.53 N 143.00 E
				H = 14 49 56.1 h = 320 km MB = 5.4 (NEIS)
				D = 96.3
19.	e	A	15 06 47	
19.	LmH	B	17 38.4	LmH B 17s 0.5/um
	LmV	B	44.8	LmV B 15 0.4/um
19.	eP	A	20 44 53.5	Off East Coast of Honshu, Japan
				33.32 N 141.99 E
				H = 20 32 16.7 h = 34 km MB = 5.0 (NEIS)
				D = 85.7

Day	Phase	h m s	Remarks
19.	LmH B	23 50.0	South of Panama 7.7 N 82.8 W
	LmV B	50.1	H = 23 01 19 h = 38 km MB = 4.6 (ISC)
			D = 86.8
			LmV B 18s 0.5/um M = 5.0
20.	e A	03 25 49	Eastern Caucasus 41.66 N 48.25 E
	e A	26 11	H = 03 20 00.2 h = 33 km MB = 4.7 (NEIS)
			D = 26.8
20.	ePKIKP1 AB	22 45 03	Fiji Islands Region 16.26 S 177.43 W
	ePKIKP2 A	45 07	H = 22 25 29.0 h = 33 km MB=5.7 MS=6.5
	ePP C	48 12	D = 144.93 Az = 350 (NEIS)
	eSS C	23 07 00	PKIKP2V A 2.5s 538.0nm
	LmV B	51.6	PPV B 12 2.8/um M = 6.4
	LmH B	51.7	LmH B 20 6.0/um 6.3
			LmV B 20 5.8/um 6.3
21.	+iP AB	12 06 03.0	Novaya Zemlya 73.35 N 55.08 E
	ePn B	06 30	H = 11 59 57.3 h = 0 km MB = 6.5
	ePcP B	09 10	D = 29.35 Az = 243 (NEIS)
	eS B	11 35	Underground explosion MB = 6.2 (UPP)
	LmV B	21.0	PV B 3.0s 1.7/um M = 6.3
	LmH B	21.7	LmH B 7.2 7.4/um 5.7
	e A	38 40	LmV B 8 6.7/um 5.8
	e(P'P') A	39 26	
21.	ePKHKP A	12 43 09.5	Tonga Islands Region 23.74 S 175.34 W
			H = 12 23 16.3 h = 25.8 km MB = 4.8
			D = 152.60 Az = 350 (NEIS)
21.	ePKP A	16 16 45	Fiji Islands Region 18.16 S 176.45 W
			H = 15 57 08.0 h = 60.6 km MB = 5.0
			D = 146.96 Az = 351 (NEIS)
			PKPV A 2.0s 68.4nm
21.	eP1 A	17 25 37	Panay, Philippine Islands
	eP2 A	25 42	11.71 N 121.75 E
	ePP A	29 25	H = 17 12 23.7 h = 33 km MB=5.6 MS=6.1
	eS C	36 40	D = 93.39 Az = 323 (NEIS)

Day	Phase	h m s	Remarks
cont. 21.	eSS C	17 43 00	P2V A 2.0s 51.3nm M = 5.6
	LmV B	18 10.7	PPV A 2.0 51.3nm 5.6
	LmH B	13.1	LmH B 18 12.4/um 6.4
			LmV B 17.5 11.0/um 6.4
21.	ePKIKP AB	20 48 33	Santa Cruz Islands 12.47 S 166.51 E
	epPKIKP A	48 48	H = 20 29 17.3 h = 67.4 km MB = 5.4 (NEIS)
	ePP B	51 18	D = 136.8 h = 54 km
	epPP B	51 40	PKIKPV A 1.6s 41.2nm
	eSS C	21 09 50	LmH B 20 1.6/um
	LmH B	50.5	LmV B 20 1.6/um
	LmV B	52.2	
21.	eP A	22 36 24	Panay, Philippine Islands
			11.64 N 121.60 E
			H = 22 23 06.3 h = 33 km MB = 5.4
			D = 93.36 Az = 323 (NEIS)
			PV A 1.2s 16.3nm M = 5.3
21.	eP1 A	23 03 27	Yugoslavia 43.06 N 17.37 E
	iP2 A	03 29.5	H = 23 01 22.8 h = 33 km MB = 3.9
	eSn A	05 02.5	D = 8.55 Az = 335 (NEIS)
			P1V A 0.9s 27.2nm M = 5.2
			P2V A 1.3 96.1nm 5.6
21.	eP A	23 19 35	Panay, Philippine Islands
	Pm A	20 07	11.66 N 121.65 E
	ePP A	23 21	H = 23 06 22.8 h = 33 km MB=5.6 MS=6.3
	LmH B	24 08.5	D = 93.37 Az = 323 (NEIS)
	LmV B	09.1	PV A 1.6s 33.0nm M = 5.5
			PmV A 1.8 84.5nm 5.9
			PPV A 1.6 21.5nm 5.4
			LmH B 17 13.4/um 6.5
			LmV B 17.5 17.6/um 6.6
22.	eP A	09 57 12.5	Near West Coast of Colombia
			6.87 N 77.81 W
			H = 09 44 40.6 h = 23.2 km MB = 4.9
			D = 84.38 Az = 40 (NEIS)

Day	Phase		h m s	Remarks
22.	eP	A	16 13 02	Panay, Philippine Islands
	eSSS	C	24 00	11.65 N 121.67 E
	LmH	B	52.7	H = 15 59 48.6 h = 33 km MB=5.4 MS=5.8
	LmV	B	58.1	D = 93.39 Az = 323 (NEIS)
				PV A 1.6s 30.2nm M = 5.5
				LmH B 16.5 6.5/um 6.2
				LmV B 17 5.8/um 6.1
23.	eP	A	01 32 45.5	Chiapas, Mexico 17.20 N 93.29 W
	LmH	B	02 13.8	H = 01 20 03.5 h = 33 km MB=5.1 MS=4.7
	LmV	C	14.9	D = 85.98 Az = 38 (NEIS)
				PV A 1.8s 33.8nm M = 5.3
				LmV C 20 0.5/um 4.9
23.	ePKP	A	05 10 14.5	Samoa Islands 14.88 S 172.71 W
	e	A	10 18	H = 04 50 43.1 h = 38.4 km MB=5.4 MS=5.2
	LmH	C	06 08.0	D = 144.16 Az = 355 (NEIS)
	LmV	C	08.0	PKPV A 2.0s 85.5nm
				LmH C 24 0.7/um M = 5.3
				LmV C 24 0.7/um 5.3
23.	LmH	C	16 01.5	Near Coast of Oaxaca, Mexico
	LmV	C	01.5	15.1 N 94.6 W
				H = 15 09 14.1 h = 33 km MB = 4.6 (ISC)
				D = 88.3
				LmH C 20s 0.3/um M = 4.7
				LmV C 19 0.4/um 4.9
23.	eP	A	20 25 56	Southern Sumatra 3.32 S 100.75 E
				H = 20 12 49.3 h = 37.2 km MB = 5.3
				D = 91.99 Az = 320 (NEIS)
24.	e	A	01 18 55.5	
24.	eP	A	05 22 46	Central Mid-Atlantic Ridge
	LmH	B	40.5	7.20 N 36.17 W
	LmV	B	43.8	H = 05 12 51.2 h = 33 km MB=4.8 MS=4.4
				D = 58.64 Az = 34 (NEIS)
				PV A 2.0s 51.4nm M = 5.3

Day	Phase		h m s	Remarks
cont. 24.				LmH B 18s 0.5/um M = 4.7
				LmV B 20 0.8/um 4.9
24.	eP	A	13 43 52	Afghanistan-USSR Border Region
				37.32 N 71.53 E
				H = 13 35 27.5 h = 112.1 km MB = 4.8
				D = 43.95 Az = 307 (NEIS)
				PV A 1.5s 20.1nm M = 4.6
24.	iPn	A	17 33 58.3	Austria 47.4 N 10.4 E
	iPg	A	34 14	H = 17 33 08 (BCIS)
	iSn	A	34 39	D = 3.34
	iSg	A	34 56	
25.	eP	A	00 39 48.5	Afghanistan-USSR Border Region
				36.07 N 71.04 E
				H = 00 31 41.5 h = 81.7 km MB = 4.9
				D = 44.41 Az = 308 (NEIS)
25.	eP	A	11 07 45.5	Hokkaido, Japan Region 41.48 N 142.02 E
				H = 10 55 50.2 h = 70.2 km MB = 5.2
				D = 78.54 Az = 330 (NEIS)
				traces
25.	eP	A	14 32 48	South of Honshu, Japan 32.93 N 137.84 E
	ePP	A	36 07	H = 14 20 52.8 h = 340.6 km MB = 5.1
				D = 84.21 Az = 329 (NEIS)
				PV A 1.4s 11.6nm M = 4.5
				PPV A 1.6 38.5nm 5.3
26.	LmH	B	07 18.9	Turkey 40.00 N 35.01 E
	LmV	B	21.9	H = 07 05 03.1 h = 33 km MB = 4.6
				D = 19.51 Az = 311 (NEIS)
				LmH B 15s 0.45/um M = 3.9
				LmV B 14 0.9/um 4.3

Day	Phase		h m s	Remarks
26.	eP	AB	10 55 16	Mindanao, Philippine Islands
	ePP	B	59 25	6.58 N 126.83 E
	eSKS	B	11 06 13	H = 10 41 31.9 h = 50 km MB=5.8 MS=6.1
	eSKKS	C	06 50	D = 100.47 Az = 324 (NEIS)
	ePS	C	08 14	PV A 1.6s 60.5nm M = 5.9
	eSS	C	14 10	PV B 8 1.2/um 6.5
	LmH	B	44.8	LmH B 19 6.2/um 6.1
	LmV	B	45.6	LmV B 20 7.8/um 6.2
26.	eP	A	14 35 06	Kurile Islands 46.58 N 153.35 E
				H = 14 23 11.0 h = 33 km MB = 4.5
				D = 77.67 Az = 336 (NEIS)
27.	eP	A	01 09 10	Southern Sinkiang Prov., China
				41.40 N 88.29 E
				H = 01 00 03.5 h = 33 km MB = 5.0
				D = 51.80 Az = 308 (NEIS)
27.	eP	A	14 35 52.5	Southern Sinkiang Prov., China
	e	A	35 57.5	37.22 N 78.07 E
	LmH	B	57.7	H = 14 27 13.6 h = 33 km MB = 5.1
	LmV	B	58.5	D = 48.13 Az = 308 (NEIS)
				LmH B 16s 0.45/um M = 4.5
				LmV B 14 0.7/um 4.9
27.	eP	A	16 28 21	Mongolia 48.22 N 102.69 E
				H = 16 18 49.0 h = 54.6 km MB = 5.2
				D = 55.57 Az = 309 (NEIS)
27.	ePg	A	16 47 53	Central Italy 44.2 N 11.7 E
				H = 16 45 49 (BCIS)
				D = 6.49
27.	eP	AC	18 40 27	Mindanao, Philippine Islands
	ePP	AC	44 26	8.10 N 126.67 E
	eSKS	B	51 08	H = 18 26 44.6 h = 33 km MB=5.5 MS=5.9
	eS	C	51 56	D = 99.15 Az = 324 (NEIS)
	eSS	C	58 32	PV A 1.4s 18.6nm M = 5.4

Day	Phase		h m s	Remarks
cont. 27.	LmV	B	19 33.5	LmH B 15.5s 5.1/um M = 6.1
	LmH	B	34.2	LmV B 17 5.7/um 6.2
27.	eP	A	23 30 26.5	Burma-China Border Region
	LmH	B	24 02.9	21.50 N 101.70 E
	LmV	B	07.6	H = 23 18 53.6 h = 33 km MB = 5.1
				D = 73.73 Az = 318 (NEIS)
				PV A 1.3s 21.8nm M = 5.0
				LmH B 20 1.8/um 5.4
				LmV B 17 0.9/um 5.2
28.	eP	A	05 52 49.5	Nicobar Islands Region 8.66 N 94.07 E
				H = 05 40 42.3 h = 33 km MB = 5.0
				D = 78.57 Az = 320 (NEIS)
				PV A 1.6s 24.7nm M = 5.0
28.	eP	AB	07 08 17	Near Coast of Northern Chile
	e	A	08 28	22.86 S 70.51 W
	ePP	B	12 28	H = 06 54 22.4 h = 38 km MB=5.9 MS=6.3
	eSKS	C	19 00	D = 102.56 Az = 40 (NEIS)
	ePS	C	21 28	PV A 2.0s 51.3nm M = 5.9
	ePKKP	A	24 18	PV B 7 0.9/um 6.6
	e	A	24 41	LmH B 22 6.5/um 6.1
	eSS	C	27 12	LmV B 22 8.6/um 6.2
	LmH	B	50.1	
	LmV	B	50.8	
28.	+iP	AB	14 42 18	Southern Nevada 37.29 N 116.41 W
	+ePP	A	45 22	H = 14 30 00.2 h = 0 km MB=6.4 MS=5.4
	eP'P'	A	15 08 54	D = 81.23 Az = 30 (NEIS)
	LmH	B	20.5	Nuclear explosion KASSERI (USAEC)
	LmV	B	20.9	PV A 1.5s 262.0nm M = 6.1
				PV B 3 0.7/um 6.1
				PPV A 1.8 155.4nm 5.9
				P'P' traces
				LmH B 16 0.8/um 5.2
				LmV B 16 1.2/um 5.4

Day	Phase		h m s	Remarks
28.	eP	A	23 45 56	Turkey 38.71 N 30.01 E
	e	A	46 06	H = 23 41 40.2 h = 23.0 km MB = 4.5
				D = 18.17 Az = 317 (NEIS)
29.	+iP	AB	04 54 49.4	Eastern Kazakh SSR 49.98 N 78.98 E
	ePn	A	56 27	H = 04 46 57.5 h = 0 km MB = 5.8
	ePKKP	A	05 18 24.5	D = 41.66 Az = 298 (NEIS)
	e	A	18 37	PV A 1.0s 118.0nm M = 5.6
29.	eP	A	05 06 55.5	Guerrero, Mexico 17.23 N 99.51 W
				H = 04 54 00.7 h = 35 km MB = 5.2
				D = 89.56 Az = 36 (NEIS)
29.	e(P)	A	05 15 38	East Central Pacific Ocean 4.05 N 103.52 W
	e	A	15 44	H = 05 01 49.0 h = 100.5 km MB = 5.5
	LmH	B	06 07.5	D = 102.45 Az = 36 (NEIS)
	LmV	B	12.7	LmH B 16s 0.6/um M = 5.2
				LmV B 16 0.5/um 5.1
29.	ePKHKP	A	06 10 57	Tonga Islands Region 23.15 S 175.65 W
				H = 05 51 08.2 h = 48 km MB = 4.9
				D = 151.97 Az = 350 (NEIS)
29.	eP	A	06 32 15	Off Coast of Peru 10.99 S 78.11 W
	epP	A	32 32.5	H = 06 18 42.3 h = 58 km MB = 5.5
				D = 98.21 Az = 40 (NEIS)
				h = 63 km
29.	ePKP	AB	06 50 23.5	Tonga Islands 17.09 S 173.51 W
	e	A	50 32.5	H = 06 31 04.1 h = 214 km MB = 4.2
	e	A	50 43	D = 146.27 Az = 354 (NEIS)
				PKPV A 1.9s 94.6nm
29.	eP	A	13 38 10	Central Russia 47 N 93 E
				H = 13 29 39.9 h = 0 km
				D = 46.39 Az = 302
				PV A 1.2s 10.2nm M = 4.7

Day	Phase		h m s	Remarks
30.	+iP	AB	01 53 27	Hokkaido, Japan Region 42.01 N 142.67 E
	epP	AB	53 44	H = 01 41 31.5 h = 59 km MB = 5.8 (NEIS)
	esP	A	53 49	D = 78.2 h = 64 km
	ePP	B	56 24	PV A 1.0s 110.0nm M = 5.8
	epPP	B	56 44	PV B 8 2.0/um 6.1
	eS	B	02 03 14	LmH B 17 7.9/um
	esS	B	03 46	LmV B 19 10.3/um
	LmV	B	31.2	
	LmH	B	31.6	
30.	ePn	A	04 29 25	Czechoslovakia 50.2 N 14.1 E
	iSg	A	29 47.8	H = 04 28 54
				D = 1.66 Az = 285 (ISC)
30.	ePKHKP	A	10 24 30	Loyalty Islands Region 22.45 S 173.76 E
	LmH	B	11 28.8	H = 10 04 43.9 h = 22.2 km MB=5.4 MS=5.5
	LmV	B	29.0	D = 148.59 Az = 338 (NEIS)
				PKHKPV A 2.0s 34.2nm
				LmH B 23.5 1.0/um M = 5.5
				LmV B 24 1.0/um 5.5
30.	ePKHKP	A	10 50 54	Loyalty Islands Region 22.40 S 173.70 E
	e	A	51 08	H = 10 31 19.1 h = 100.6 km MB = 4.5
				D = 148.52 Az = 338 (NEIS)
30.	ePKHKP	A	11 11 08	Loyalty Islands Region 22.04 S 170.2 E
				H = 10 51 28 h = 33 km
				D = 146.91 Az = 335 (ISC)
30.	+eP	A	12 27 18	Philippine Islands Region
	ePP	A	31 09	12.54 N 126.13 E
	e	A	31 21.5	H = 12 13 58.2 h = 53 km MB = 5.7
	LmH	B	13 13.9	D = 95.26 Az = 324 (NEIS)
	LmV	B	21.1	PV A 1.2s 30.5nm M = 5.6
				PPV A 1.3 17.4nm 5.4
				LmH B 16 2.4/um
				LmV B 15.5 2.6/um

Day	Phase		h m s	Remarks
30.	eP	A	12 43 39	Andreanof Islands, Aleutian Is.
				50.07 N 179.42 W
				H = 12 31 44.2 h = 51.9 km MB = 4.6
				D = 78.23 Az = 353 (NEIS)
30.	eP	A	12 48 05	Andreanof Islands, Aleutian Is.
	e	A	48 20	51.36 N 179.35 W
	e	A	48 31	H = 12 36 11.5 h = 50 km MB=5.0 MS=5.0
				D = 77.95 Az = 353 (NEIS)
30.	e	A	20 13 03	Poland 50.28 N 18.88 E
	eSg	A	14 09.5	H = 20 11 39.7 M = 3.4 (WAR)
				D = 4.66 Az = 277
30.	eP	A	22 49 08.5	Off East Coast of Kamchatka
				51.55 N 159.36 E
				H = 22 37 32.6 h = 44.4 km MB = 4.8
				D = 74.57 Az = 339 (NEIS)
31.	-eP1	AB	08 41 22	Philippine Islands Region
	iP2	AB	41 27.5	12.54 N 125.99 E
	ePP	B	45 20	H = 08 28 02.6 h = 50 km MB=6.4 MS=7.2
	e	B	49 24	D = 95.18 Az = 324 (NEIS)
	eSKS	B	52 00	P1V A 1.9s 287.9nm M = 6.4
	ePKKP	A	58 33	P2V A 1.8 1506.0nm 7.2
	eP'P'1	A	09 06 30	P2V B 11 22.1/um 7.5
	eP'P'2	A	06 39	PPV B 14 23.1/um 7.4
	LmH	B	27.3	P'P'1 A 2.5 153.7nm
	LmV	B	30.0	P'P'2 A 3.0 1079.0nm
				LmH B 16 358.0/um 7.9
				LmV B 18 384.0/um 7.9
31.	eP	A	10 38 49	Philippine Islands Region
				12.73 N 125.99 E
				H = 10 25 22.8 h = 5 km MB = 5.5
				D = 95.03 Az = 324 (NEIS)

Day	Phase		h m s	Remarks
31.	eP	A	11 23 39	Philippine Islands Region
				12.50 N 126.08 E
				H = 11 10 21.7 h = 76.4 km MB = 5.0
				D = 95.26 Az = 324 (NEIS)
31.	LmH	B	15 18.8	Philippine Islands Region
	LmV	B	24.8	12.16 N 126.40 E
				H = 14 23 08 h = 78 km MB = 5.1 (ISC)
				D = 95.7
				LmH B 15.5s 0.6/um
				LmV B 16 0.4/um
31.	ePKIKP	A	16 21 39	South of Fiji Islands 23.53 S 180.00 E
	ePKHKP	A	21 46	H = 16 02 50.7 h = 514.6 km MB = 5.2
	epPKP	A	23 49.5	D = 151.46 Az = 344 (NEIS)
	e	A	23 57.5	
31.	eP	A	20 24 29.5	Samar, Philippine Islands
				12.47 N 125.93 E
				H = 20 11 08.7 h = 40.5 km MB = 5.1
				D = 95.19 Az = 324 (NEIS)
31.	eP	A	23 33 42	Samar, Philippine Islands
	e	A	33 50	11.88 N 125.63 E
	ePP	A	37 34.5	H = 23 20 21.0 h = 49.8 km MB = 5.3
	e	A	37 44	D = 95.50 Az = 324 (NEIS)
	LmH	B	24 18.5	LmH B 16s 0.5/um M = 5.1
	LmV	B	24.8	LmV B 16 1.0/um 5.4

Day	Phase		h m s	Remarks
1.	eP	A	00 12 02	Unimak Islands Region 54.7 N 163.8 W
				H = 00 00 17.5 h = 0 km MB = 4.6
				D = 74.98 Az = 3 (ISC)
1.	+iP	AB	01 00 09.5	Unimak Islands Region 53.66 N 163.37 W
	i	A	00 17	H = 00 48 23.4 h = 25.4 km MB=5.7 MS=5.7
	i	AB	00 21	D = 75.99 Az = 3 (NEIS)
	eS	B	09 55	PV A 1.4s 274.0nm M = 6.1
	eSS	BC	15 40	PV B 8 1.1/um 6.0
	LmH	B	43.1	LmH B 17.5 4.6/um 5.8
	LmV	B	45.4	LmV B 15 4.7/um 6.0
1.	eP	A	01 31 31	Mariana Islands 13.84 N 144.75 E
	eX	A	34 40	H = 01 17 33.9 h = 113.1 km MB = 6.1 (NEIS)
	ePP	AB	35 44	D = 103.9
	eSKS	B	41 48	XV A 1.8s 60.9nm
	LmH	B	02 14.9	PPV A 1.8 67.6nm M = 6.0
	LmV	B	23.2	LmH B 17 15.3/um
				LmV B 19 11.0/um
1.	eSg	A	03 31 25.5	
1.	eP	A	05 30 02	Samar, Philippine Islands
				12.48 N 125.56 E
				H = 05 16 40.0 h = 33 km MB = 4.7
				D = 94.98 Az = 324 (NEIS)
				traces
1.	ePKP	AB	06 33 48	Fiji Islands Region 18.47 S 177.86 W
	ipPKP	AB	35 32	H = 06 14 55.5 h = 424 km MB = 5.8
	esPKP	C	36 10	D = 147.02 Az = 349 (NEIS)
	eSKP	C	36 40	PKPV A 1.6s 363.0nm
	ePPP	C	40 35	
	eSKKS	B	43 25	
	eSKSP	B	46 42	
	eSKP	C	49 15	

Day	Phase		h m s	Remarks
1.	eP	A	09 44 13.5	Turkey 36.43 N 30.69 E
				H = 09 39 46.9 h = 67.6 km MB = 3.9
				D = 19.74 Az = 322 (NEIS)
1.	eP	A	14 11 14.5	Samar, Philippine Islands
	LmH	C	59.0	12.58 N 125.92 E
	LmV	C	59.0	H = 13 57 55.2 h = 51 km MB = 5.1
				D = 95.10 Az = 324 (NEIS)
				LmH C 17s 0.25/um M = 4.8
				LmV C 16 0.35/um 5.0
1.	eP	A	15 07 11	Samar, Philippine Islands
				12.64 N 125.83 E
				H = 14 53 51.2 h = 47.9 km MB = 5.1
				D = 95.00 Az = 324 (NEIS)
				traces
1.	+eiPKP	AB	19 00 08	Tonga Islands Region 17.27 S 172.66 W
	LmV	C	56	H = 18 40 30.7 h = 33 km MB=5.7 MS=5.2
	LmH	C	58.9	D = 146.52 Az = 355 (NEIS)
				PKPV A 1.8s 466.0nm
				LmH C 23 0.8/um M = 5.4
				LmV C 26 0.8/um 5.4
2.	eP	A	02 53 05.5	Philippine Islands Region
	LmH	C	03 44.0	11.47 N 126.51 E
	LmV	C	44.0	H = 02 39 40.4 h = 49.7 km MB = 5.3
				D = 96.34 Az = 324 (NEIS)
				LmH C 16.5s 0.6/um M = 5.2
				LmV C 20 0.5/um 5.0
2.	ePKHKP	A	06 40 46.5	Fiji Islands Region 19.90 S 178.37 W
				H = 06 22 06.3 h = 613 km
				D = 148.32 Az = 348 (ISC)
2.	ePKHKP	A	06 52 53.5	Fiji Islands Region 19.75 S 178.52 W
	ePKP2	A	52 59	H = 06 34 14.6 h = 602.6 km MB = 4.8
				D = 148.14 Az = 348 (NEIS)
				PKHKPV A 1.1s 16.1nm

Day	Phase		h m s	Remarks
2.	eP	A	10 42 23.5	Iceland Region 68.49 N 18.29 W
				H = 10 37 21.2 h = 33 km MB = 4.4
				D = 23.02 Az = 126 (NEIS)
2.	eP	A	10 49 25.5	Iceland 68.28 N 19.47 W
	e	A	49 31.5	H = 10 44 19.8 h = 33 km MB = 4.5
	LmV	B	59.1	D = 23.26 Az = 124 (NEIS)
	LmH	B	59.7	LmV B 16s 0.35/um M = 4.0
3.	LmV	B	03 10.3	Southern Nevada 37.18 N 116.52 W
	LmH	B	11.0	H = 02 19 48.6 h = 0 km (ISC)
				D = 81.2
3.	ePKP	A	05 41 10	West Chile Rise 41.45 S 85.96 W
	LmV	B	06 31.0	H = 05 22 10.4 h = 33 km MB=5.3 MS=5.1
	LmH	B	31.2	D = 124.86 Az = 50 (NEIS)
				LmH B 20s 0.8/um M = 5.4
				LmV B 20 1.2/um 5.6
4.	iPn	A	08 30 42.5	Giesen, Fed. Rep. of Germany
	iPg	A	30 45.2	50.41 N 8.84 E
	iSg	A	31 06.5	H = 08 30 12.8 h = 26.4 km
				D = 1.79 Az = 81 (NEIS)
4.	+iP	A	12 17 29.2	Komandorsky Islands Region
	e	A	17 39	54.36 N 167.54 E
	e	A	17 49	H = 12 05 56.9 h = 23.8 km MB=5.5 MS=5.3
				D = 73.44 Az = 344 (NEIS)
				PV A 1.2s 48.8nm M = 5.4
5.	eP	A	00 45 05	Kashmir-Tibet Border Region
				32.07 N 78.74 E
				H = 00 35 57 h = 21 km MB = 5.0
				D = 51.87 Az = 312 (ISC)
5.	eP	A	02 11 23	Northern Colombia 6.25 N 76.92 W
	e	A	11 29.5	H = 01 58 54.4 h = 43.9 km MB=5.4 MS=5.0
				D = 84.28 Az = 40 (NEIS)
				PV A 1.4s 32.5nm M = 5.2

Day	Phase		h m s	Remarks
5.	eP	A	05 27 30	Central Mid-Atlantic Ridge
	e	A	27 44.5	7.17 N 34.12 W
				H = 05 17 37.1 h = 33 km MB=5.0 MS=4.7
				D = 57.56 Az = 33 (NEIS)
				PV A 1.8s 27.0nm M = 5.0
5.	eP	A	07 49 26	Sicily 38.24 N 15.85 E
				H = 07 46 25.4 h = 135.4 km MB = 4.1
				D = 12.76 Az = 348 (NEIS)
5.	eP	A	10 52 13	Nicobar Islands Region 7.25 N 94.37 E
	ePP	A	55 26.5	H = 10 40 05.9 h = 30 km MB=5.2 MS=4.9
	LmH	C	11 22.2	D = 79.85 Az = 320 (NEIS)
	LmV	C	24.7	PV A 1.4s 25.6nm M = 5.0
				LmH C 29 0.9/um 5.0
				LmV C 29 0.9/um 5.0
5.	eP	A	11 39 13	Nicobar Islands Region 7.46 N 94.43 E
				H = 11 27 05.9 h = 22 km MB=5.2 MS=4.8
				D = 79.72 Az = 320 (NEIS)
				PV A 1.7s 30.3nm M = 5.0
5.	eP	A	17 06 23.5	South Atlantic Ridge 14.31 S 13.40 W
	LmH	B	55.0	H = 16 55 24.4 h = 33 km MB = 5.3
	LmV	B	56.2	D = 68.29 Az = 17 (NEIS)
				PV A 2.4s 55.3nm M = 5.2
6.	+iP	A	01 18 30	Rat Islands, Aleutian Is.
	ePP	A	21 37	51.87 N 176.23 E
	LmV	B	54.1	H = 01 06 42.1 h = 61 km MB = 5.4
	LmH	B	56.4	D = 77.03 Az = 350 (NEIS)
				PV A 1.3s 37.2nm M = 5.2
				PPV A 2.0 34.2nm 5.2
				LmH B 16 1.2/um
				LmV B 18 0.8/um
6.	e	A	10 02 11	Nicobar Islands Region 7.27 N 94.39 E
				H = 09 50 00.4 h = 61.9 MB=5.0 MS=4.9
				D = 79.84 Az = 320 (NEIS)

Day	Phase		h m s	Remarks
6.	eP	A	10 23 25	Southern Iran 27.36 N 56.08 E
				H = 10 15 42.2 h = 37.9 km MB = 4.9
				D = 40.83 Az = 317 (NEIS)
6.	-iP	AB	12 49 39.5	Philippine Islands Region
	eSKS	B	13 00 18	12.55 N 126.07 E
	ePS	B	02 06	H = 12 36 14.5 h = 11.2 km
	LmH	B	36.2	MB = 6.1 MS = 5.5 (NEIS)
	LmV	B	36.2	D = 95.3
				PV A 1.5s 146.0nm M = 6.2
				LmH B 16 2.9/um 5.8
				LmV B 17 2.8/um 5.8
7.	eP	A	05 52 47	Tsinghai Province, China
	LmH	C	06 20.2	33.29 N 95.33 E
	LmV	C	20.4	H = 05 42 32.3 h = 33 km MB = 5.2
				D = 61.33 Az = 314 (NEIS)
				PV A 1.3s 17.5nm M = 5.0
				LmH B 20 0.5/um 4.7
				LmV B 13 0.5/um 4.9
8.	ePKIKP	A	11 19 36.5	Santa Cruz Islands 10.96 S 166.10 E
	e	A	21 46	H = 11 00 24.5 h = 77 km MB = 5.7
	ePP	A	22 14	D = 135.22 Az = 337 (NEIS)
				PKIKPV A 1.3s 26.2nm
8.	eP	AB	15 07 10	Mindanao, Philippine Islands
	ePP	C	11 15	6.66 N 126.79 E
	eSKS	C	17 45	H = 14 53 32.6 h = 96 km MB = 5.6
	e(S)	C	18 45	D = 100.38 Az = 324 (ISC)
	ePS	C	20 35	PV A 1.6s 49.5nm M = 5.9
	eSS	C	25.8	LmH B 21 1.5/um
	LmV	B	56.3	LmV B 20 1.3/um
	LmH	B	56.4	
8.	ePKP	A	18 12 14.5	Fiji Islands Region 19.18 S 176.78 W
	LmV	B	19 14.8	H = 17 52 41.2 h = 122.9 km MB = 4.9
				D = 147.90 Az = 350 (NEIS)
				PKPV A 1.5s 50.3nm

Day	Phase		h m s	Remarks
cont. 8.	LmH	B	19 15.0	LmH B 22s 1.0/um
				LmV B 22 1.6/um
9.	eP	A	17 54 24	Mongolia 47.98 N 102.97 E
				H = 17 44 48.2 h = 33 km MB=4.9 MS=5.4
				D = 55.88 Az = 310 (NEIS)
9.	LmV	B	18 58.5	Marianas 17.94 N 146.59 E
	LmH	B	58.7	H = 17 55 29.2 h = 80 km MB = 5.1 (ISC)
				D = 101.2
				LmH B 19s 0.8/um
				LmV B 19 1.2/um
9.	eP	AC	20 48 04	Philippine Islands Region
	ePP	A	51 49	13.79 N 125.10 E
	ePP	BC	51 54	H = 20 34 49.8 h = 33 km
	eSKS	B	58 37	MB = 5.8 MS = 5.5 (NEIS)
	eS	B	59 20	D = 93.7
	ePS	B	21 00 35	PV A 1.3s 56.7nm M = 5.9
	eSS	C	05 40	LmH B 18 6.1/um 6.1
	LmH	B	29.3	LmV B 16 4.9/um 6.1
	LmV	B	39.8	
10.	LmV	B	14 02.5	Northern Easter I. Cordillera
	LmH	B	03.5	4.4 S 105.6 W
				H = 13 03 12 h = 179 km MB = 4.8 (ISC)
				D = 110.4
				LmH B 20s 0.9/um
				LmV B 20 1.3/um
11.	-iP	AB	04 36 38	Sea of Okhotsk 46.67 N 145.48 E
				H = 04 25 32.3 h = 355 km MB = 5.5
				D = 75.20 Az = 332 (NEIS)
				PV A 1.6s 187.0nm M = 5.6
11.	e	A	07 34 46	Hokkaido, Japan Region 41.66 N 144.25 E
	e	A	35 28	H = 07 22 40 h = 14 km MB = 5.1

Day	Phase		h m s	Remarks
cont.				
11.	LmH	B	08 10.3	D = 79.19 Az = 332 (ISC)
	LmV	B	13.6	LmH B 16s 1.0/um M = 5.2
				LmV B 16 0.6/um 5.1
11.	+iP	AB	09 06 21.5	Hokkaido, Japan Region 41.65 N 144.05 E
	LmH	B	44.7	H = 08 54 18.5 h = 30.9 km MB=5.4 MS=5.3
	LmV	B	47.2	D = 79.12 Az = 331 (NEIS)
				PV A 1.8s 87.8nm M = 5.5
				LmH B 16.5 3.4/um 5.8
				LmV B 16.5 3.2/um 5.8
11.	+iP	A	09 08 35.5	Hokkaido, Japan Region 41.49 N 144.20 E
				H = 08 56 34.3 h = 55 km MB = 5.5 (NEIS)
				D = 79.4
				PV A 1.4s 46.5nm M = 5.3
11.	LmH	B	15 07.4	Talaud Islands 4.19 N 125.40 E
	LmV	B	07.9	H = 14 01 46 h = 33 km MB = 5.3 (ISC)
				D = 101.6
				LmV B 18s 0.25/um M = 4.9
11.	LmH	C	23 04.8	Talaud Islands 4.12 N 125.36 E
	LmV	C	04.9	H = 21 58 48 h = 54 km MB = 5.0 (ISC)
				D = 101.7
				LmH C 19s 0.25/um
				LmV C 18 0.4/um
12.	ePn	A	00 07 56	North Sea 57.00 N 7.27 E
	eSn	A	09 18	H = 00 06 14.4 h = 33 km
				D = 6.86 Az = 156 (NEIS)
12.	ePKP	A	01 02 26	Loyalty Islands Region 21.71 S 170.34 E
				H = 00 42 58.3 h = 134.1 km MB = 4.9
				D = 146.65 Az = 335 (NEIS)
				PKPV A 0.9s 15.6nm

Day	Phase		h m s	Remarks
12.	LmH	B	07 50.0	Talaud Islands 4.13 N 125.45 E
	LmV	B	51.3	H = 06 48 05.6 h = 40 km MB = 5.3 (ISC)
				D = 101.7
				LmH B 16s 0.45/um M = 4.9
				LmV B 18 0.55/um 5.2
12.	+eiP	AB	09 08 03	Dodecanese Islands 36.35 N 28.19 E
	eS	C	11 28	H = 09 03 49.5 h = 68.2 km MB = 5.2 (NEIS)
	LmH	B	15.1	D = 18.6
	LmV	B	16.4	PV A 1.5s 643.2nm M = 5.6
				PV B 1.8 1.0/um 6.0
				LmH B 16 2.0/um
				LmV B 12 2.0/um
12.	ePKHKP	A	10 45 14.5	South of Fiji 24.0 S 176.94 W
				H = 10 25 35.3 h = 150 km MB = 4.5
				D = 152.63 Az = 348 (ISC)
12.	+eP	AB	17 56 04	Jan Mayen Islands Region 71.73 N 2.45 W
	LmH	B	18 06.2	H = 17 51 11.2 h = 33 km MB = 4.9 (NEIS)
	LmV	B	06.2	D = 22.1
				PV A 1.5s 50.3nm M = 4.7
				LmH B 15 0.45/um 4.0
				LmV B 15 0.45/um 4.2
12.	eP	A	17 59 09.5	Jan Mayen Islands Region 72.01 N 2.0 W
				H = 17 54 12.7 h = 33 km MB = 4.6
				D = 22.30 Az = 157 (ISC)
				PV A 1.6s 41.2nm M = 4.3
12.	LmH	B	18 56.5	Talaud Islands 4.13 N 125.49 E
	LmV	B	19 03.0	H = 17 57 26.2 h = 61 km MB = 5.5 (ISC)
				D = 101.7
				LmH B 16s 0.6/um
				LmV B 17 0.7/um
12.	+eP	A	22 06 26	Jan Mayen Islands Region 71.67 N 1.28 W
				H = 22 01 32.4 h = 33 km MB = 4.9 (NEIS)
				D = 21.8
				PV A 1.7s 36.4nm M = 4.5

Day	Phase		h m s	Remarks
12.	eP	A	22 23 57	Jan Mayen Islands Region 72.14 N 1.5 W
				H = 22 18 55.4 h = 0 km
				D = 22.36 Az = 158 (ISC)
12.	eP	A	23 43 26.5	Jan Mayen Islands Region 71.68 N 2.48 W
	Pm	A	43 34	H = 23 38 33.7 h = 33 km MB = 5.0 (NEIS)
	eS	C	47 28	D = 21.4
	LmH	B	53.6	PV A 1.9s 121.2nm M = 5.1
	LmV	B	53.6	PmV A 2.0 196.6nm 5.2
				LmH B 15 1.4/um 4.5
				LmV B 15 1.5/um 4.6
13.	ePKP	A	01 51 19	Tonga Region 17.6 S 172.3 W
	eX	A	51 28	H = 01 31 37.0 h = 33 km MB = 4.6
				D = 146.91 Az = 355 (ISC)
				XV A 1.8s 54.1nm
13.	+iP	A	03 05 42.8	Alaska Peninsula 54.37 N 162.66 W
				H = 02 54 01.2 h = 33 km MB = 5.3 (NEIS)
				D = 75.3
				PV A 1.3s 69.9nm M = 5.5
13.	-eiP	AB	03 11 47.8	Mediterranean Sea 33.59 N 22.92 E
	+i	A	11 51	H = 03 07 26.6 h = 33.2 km MB = 5.1 (NEIS)
	eS	C	15 20	D = 18.9
	LmH	B	20.7	PV A 0.8s 76.9nm M = 4.9
	LmV	B	21.5	PV B 5 0.9/um 5.2
				LmH B 16 1.8/um 4.5
				LmV B 14 1.2/um 4.5
13.	LmH	C	13 47.7	Talaud Islands 4.12 N 125.43 E
	LmV	C	52.1	H = 12 46 00 h = 43 km (ISC)
				D = 101.7
				LmH C 20s 0.6/um M = 5.1
				LmV C 18 0.4/um 5.0
13.	ePKP	A	14 01 36	Tonga Region 18.01 S 172.74 W
				H = 13 41 53.4 h = 33 km MB = 5.0
				D = 147.26 Az = 355 (ISC)

Day	Phase		h m s	Remarks
13.	ePKP	A	14 04 57	Tonga Islands Region 18.43 S 172.72 W
	LmH	B	15 07.4	H = 13 45 13.9 h = 33 km
	LmV	B	17.0	MB = 4.9 MS = 5.2 (NEIS)
				D = 147.6
				PKPV A 3.0s 184.0nm
				LmH B 20 0.6/um M = 5.3
				LmV B 16 0.4/um 5.3
13.	e	A	16 00 36	Kurile Islands 50.20 N 156.81 E
				H = 15 48 45.5 h = 60 km MB = 5.1
				D = 75.23 Az = 338 (ISC)
13.	eX	A	16 37 33.5	Taiwan 24.10 N 121.65 E
	LmV	B	17 18.6	H = 16 25 00.3 h = 45 km MB = 5.1
	LmH	B	19.5	D = 88.47 Az = 323 (ISC)
				XV A 2.0s 42.7nm
				LmH B 16 1.2/um M = 5.4
				LmV B 16 1.5/um 5.5
13.	eP	A	19 22 02	Arabian Sea 11.06 N 57.39 E
	ePP	A	24 04	H = 19 12 39 h = 49 km MB = 4.8
				D = 54.34 Az = 326 (ISC)
13.	ePn	A	19 56 44.5	Northern Italy 44.63 N 9.56 E
	ePg	A	57 16	H = 19 55 13.1 h = 5.4 km (NEIS)
	iSn	A	57 53	D = 6.20
	eiSg	A	58 36	LmH B 8s 1.0/um M = 3.7
	LmH	B	59.3	LmV B 9 0.8/um
	LmV	B	59.3	
13.	ePg	A	20 33 59	Northern Italy 44.4 N 11.0 E
				H = 20 31 52 (BCIS)
				D = 6.29
13.	eP	A	23 34 06	Ionian Sea 37.4 N 20.9 E
				H = 23 30 32 (BCIS)
				D = 14.89

Day	Phase		h m s	Remarks
13.	eP	A	23 43 09.5	Andreanof Islands 51.77 N 173.36 W
				H = 23 31 14 h = 33 km MB = 4.5
				D = 77.88 Az = 357 (ISC)
14.	ePKP2	A	08 30 36	West of Macquarie Islands
				53.44 S 140.9 E
				H = 08 10 48 h = 64 km
				D = 149.24 Az = 286 (ISC)
14.	eP	A	09 42 04.5	Near Coast of Northern California
	LmH	B	10 19.6	40.55 N 124.47 W
	LmV	B	20.8	H = 09 29 45 h = 4 km MB = 5.1
				D = 81.38 Az = 27 (ISC)
				PV A 2.0s 64.1nm M = 5.3
				LmH B 18 0.5/um 4.9
				LmV B 16 0.6/um 5.1
14.	ePKP	A	09 57 07	Fiji Islands Region 17.89 S 178.40 W
				H = 09 38 32.8 h = 620 km MB = 5.1
				D = 146.36 Az = 348 (ISC)
14.	LmH	B	11 44.2	Off Coast of Mexico 10.34 N 103.65 W
	LmV	B	47.6	H = 10 50 11 h = 35 km MB = 5.2 (ISC)
				D = 97.6
				LmH B 24s 1.2/um M = 5.3
				LmV B 21 1.2/um 5.4
14.	eP	A	12 37 19	Turkey 38.61 N 40.70 E
				H = 12 32 04.8 h = 40.9 km MB = 4.7 (NEIS)
				D = 23.8
15.	eP	A	06 50 27	Turkey 38.55 N 40.64 E
				H = 06 45 15.0 h = 33 km MB = 4.4 (NEIS)
				D = 23.8
				PV A 2.0s 34.2nm M = 4.5
15.	ePKHKP	A	08 39 33	West of Macquarie Island 53.72 S 141.0 E
				H = 08 19 42 h = 9 km

Day	Phase		h m s	Remarks
cont. 15.	LmH	C	09 49.5	D = 149.34 Az = 285 (ISC)
	LmV	C	49.5	PKHKPV A 2.3s 60.9nm
				LmH C 21 0.3/um M = 5.0
				LmV C 21 0.45/um 5.2
15.	eP	AB	15 41 29.5	Michoacan, Mexico 18.23 N 102.19 W
	ei	AB	41 38.5	H = 15 28 30.4 h = 33 km
	eSKS	B	52 00	MB = 5.9 MS = 5.9 (NEIS)
	eS	B	52 28	D = 90.3
	ePS	B	53 30	PV A 2.5s 215.2nm M = 6.0
	eSS	C	58 18	LmH B 17 3.2/um 5.8
	LmH	B	16 24.4	LmV B 16 3.7/um 5.9
	LmV	B	24.4	
15.	eP	AB	20 52 49	Samar, Philippine Islands
	ePP	B	56 40	12.95 N 125.91 E
	eS	C	21 03(55)	H = 20 39 25.9 h = 11 km
	ePS	B	05 30	MB = 6.1 MS = 6.0 (NEIS)
	LmH	B	29.2	D = 94.8
	LmV	B	39.1	PV A 3.0s 421.1nm M = 6.4
				LmH B 16 11.6/um 6.4
				LmV B 15 10.5/um 6.4
16	e	A	22 59 02.5	
16.	e(P)	A	04 06 16	
16.	ePn	A	13 05 53	Northern Italy 44.73 N 9.59 E
	iPg	A	06 22	H = 13 04 24.4 h = 18.6 km
	eiSn	A	07 02	MB = 4.9 MS = 4.2 (NEIS)
	eiSg	A	07 48	LmH B 6s 10.4/um M = 4.8
	LmV	B	09.1	LmV B 6.5 10.5/um
	LmH	B	09.2	
17.	e	A	03 20 39	Philippine Islands Region
	e	A	20 44	12.54 N 126.24 E
				H = 03 06 41.2 h = 33 km MB = 5.0 (ISC)
				D = 95.4
				XV A 1.5s 35.2nm

Day	Phase		h m s	Remarks
17.	e	A	03 20 39	Philippine Islands Region
	e	A	20 44	12.54 N 126.24 E
				H = 03 06 41.2 h = 33 km MB = 5.0 (ISC)
				D = 95.4
				XV A 1.5s 35.2nm
17.	LmV	C	03 40.1	South of Kermadec Islands
	LmH	C	40.8	32.12 S 179.4 E
				H = 02 02 00.8 h = 465 km MB = 4.6 (ISC)
				D = 159.4
				LmH C 22s 0.6/um
				LmV C 20 0.8/um
17.	eP	A	14 41 01	Crete 34.31 N 23.29 E
	LmV	B	15 13.4	H = 14 36 44.7 h = 33 km MB = 4.0 (NEIS)
	LmH	B	13.5	D = 18.44
				LmH B 16s 0.6/um M = 4.0
				LmV B 16 1.0/um 4.3
18.	eP	A	02 47 47	Carlsberg Ridge 0.08 N 66.95 E
				H = 02 36 50.2 h = 33 km (NEIS)
				D = 67.1
18.	eP	A	12 42 50	Azores Islands Region 40.36 N 29.85 W
	LmH	B	53.5	H = 12 36 35.6 h = 33 km
	LmV	B	54.0	MB = 4.8 MS = 4.5 (NEIS)
				D = 30.4
				LmH B 19s 0.45/um M = 4.1
				LmV B 18 0.6/um 4.4
18.	ePKP	A	20 46 33	Samoa Region 16.9 S 172.2 W
				H = 20 26 52.5 h = 33 km
				D = 146.21 Az = 356 (ISC)
				PKPV A 2.3s 60.9nm
19.	ePKIKP	A	03 53 30	Solomon Islands 6.82 S 154.48 E
	ePP	C	55 40	H = 03 34 28.1 h = 23.8 km MB=5.6 (NEIS)
	eSPP	C	04 06 58	D = 126.5
	eSS	C	12 40	PKIKPV A 1.2s 20.3nm

Day	Phase		h m s	Remarks
cont. 19.	LmV	B	04 51.3	PPV C 18s 0.4/um M = 5.4
	LmH	B	51.5	LmH B 18 2.2/um 5.9
				LmV B 18 2.4/um 5.9
19.	-eiP	A	04 52 35.5	North of Svalbard 81.96 N 4.85 W
				H = 04 46 10.9 h = 26 km
				MB = 5.1 MS = 5.6 (NEIS)
				D = 31.8
				PV A 1.3s 104.8nm M = 5.6
19.	ePKIKP	A	06 37 19	South of Fiji Islands 24.05 S 179.08 E
	eiPKHKP	A	37 26.5	H = 06 18 33.9 h = 555 km MB = 5.8 (NEIS)
	ePKP2	A	37 34.5	D = 151.9
	ipPKP	A	39 34	PKIKPV A 1.5s 65.4nm
				PKHKPV A 1.5 131.0nm
				PKP2V A 1.8 54.0nm
19.	eiP	A	11 17 48.5	Near East Coast of Kamchatka
	LmH	B	51.7	54.36 N 161.30 E
	LmV	B	55.2	H = 11 06 27.5 h = 61.9 km MB = 5.5 (NEIS)
				D = 72.3
				PV A 1.7s 139.4nm M = 5.6
				LmH B 18 1.2/um
				LmV B 16 1.1/um
19.	e	A	23 27 19.5	N.W. Iran-USSR Border Region
	ePP	A	27 34.5	38.36 N 45.64 E
				H = 23 21 20.0 h = 39 km MB = 3.8 (NEIS)
				D = 27.0
20.	eiP	A	01 03 18	Southern Sumatra 4.41 S 102.41 E
				H = 00 50 04.7 h = 58 km MB = 5.8 (NEIS)
				D = 94.0
				PV A 1.2s 40.6nm M = 5.8
20.	eiP	A	15 12 18	Southern Nevada 37.23 N 116.37 W
	ePP	A	15 23	H = 15 00 00.1 h = 0 km MB = 6.0 (NEIS)
				Nuclear explosion INLET (USAEC)

Day	Phase		h m s	Remarks
cont. 20.	LmH	C	15 43.0	PV A 1.2s 110.0nm M = 5.8
	LmV	C	49.7	LmV C 18 0.4/um 5.0
21.	eP	AB	01 27 27	Panama-Colombia Border Region
	eS	C	37 52	7.51 N 77.57 W
	eSP	C	38 42	H = 01 15 00.8 h = 35.8 km
	eSS	C	43 34	MB = 5.8 MS = 5.4 (NEIS)
	LmV	B	02 11.7	D = 83.8
	LmH	B	11.9	PV A 1.8s 115.0nm M = 5.7
				LmH B 16 1.1/um 5.3
				LmV B 16 1.4/um 5.5
21.	ePKIKP	A	05 03 59	Banda Sea 7.55 S 127.15 E
	ePP	A	04 42	H = 04 45 36.4 h = 115.5 km MB=5.1 (NEIS)
				D = 111.9
21.	eP	A	13 57 49.5	Off East Coast of Kamchatka
				52.89 N 159.42 E
				H = 13 46 24.1 h = 68 km MB = 4.8 (NEIS)
				D = 73.4
				PV A 1.2s 28.4nm M = 5.1
22.	eP	A	02 47 44.5	Mindanao, Philippine Islands
	ePP	A	51 45	8.06 N 126.42 E
	LmH	B	03 36.0	H = 02 34 10.6 h = 74.4 km MB = 5.7 (NEIS)
	LmV	B	36.0	D = 99.2
				PV A 1.0s 19.7nm M = 5.31
				LmH B 18 1.8/um
				LmV B 18 2.2/um
22.	+iP	A	10 09 01	Greece-Albania Border Region
	LmH	B	14.9	39.8 N 19.8 E
	LmV	B	15.0	H = 10 06 06 MB = 5.6 MS = 4.8
				D = 12.3 (ANUSSR)
				PV A 1.0s 102.3nm M = 5.8
				LmH B 10 6.6/um 4.9
				LmV B 10 7.2/um

Day	Phase		h m s	Remarks
22.	eP	A	18 03 35	Ascension Islands Region 8 S 14 W
				H = 17 53 18 MB = 4.4 (NORSAR)
				D = 62.5
22.	ePg	A	18 19 09	Northern Italy 44.4 N 11.0 E
	eSg	A	20 34	H = 18 17 07 (BCIS)
				D = 6.29
22.	eP	A	18 38(28)	Greece 38.25 N 21.45 E
	LmH	B	44.5	H = 18 35 05.8 h = 33 km MB = 4.5 (NEIS)
	LmV	B	45.0	D = 14.3
				PV A traces
				LmH B 14s 0.8/um M = 4.0
23.	ePKIKP	A	00 55 36	Solomon Islands 6.34 S 154.84 E
	LmV	B	01 56.8	H = 00 36 35.8 h = 56 km MB = 5.4 (NEIS)
	LmH	B	57.0	D = 126.3
				LmH B 19s 0.9/um
				LmV B 18 0.6/um
23.	ePKP	A	09 58 34	New Hebrides Islands 18.81 S 169.16 E
				H = 09 39 28.1 h = 227 km MB = 5.3 (NEIS)
				D = 143.6
				PKPV A 1.6s 55.0nm
23.	ePn	A	10 29 15.5	Northern Italy 45.92 N 12.97 E
	iPg	A	29 38.5	H = 10 28 04.0 h = 33 km (NEIS)
	eSn	A	30 10.5	D = 4.83
	eiSg	A	30 41	
23.	-iP	AB	23 13 49.2	Hokkaido, Japan Region 41.23 N 140.12 E
				H = 23 02 07.4 h = 161 km MB = 5.4 (NEIS)
				D = 77.9
				PV A 1.8s 155.0 km M = 5.4
24.	ePKHKP	A	03 54 33.5	Tonga Islands Region 18.95 S 172.69 W
				H = 03 34 49.0 h = 33 km MB = 5.2 (NEIS)
				D = 148.2
				PKHKPV A 1.7s 54.6nm

Day	Phase		h m s	Remarks
24.	ePKHKP	A	05 56 24.5	Tonga Islands Region 18.99 S 172.80 W
				H = 05 36 38.3 h = 33 km MB = 5.2
				D = 148.22 Az = 355 (NEIS)
				PKHKPV A 2.5s 107.6nm
24.	+iP	AB	08 10 03	Kurile Islands 43.29 N 147.55 E
	ei	AB	10 14.5	H = 07 58 03.0 h = 43 km MB=5.7 MS=5.1
	eS	C	20 04	D = 78.88 Az = 333 (NEIS)
	LmH	B	45.4	PV A 1.5s 156.0nm M = 5.8
	LmV	B	49.7	LmH B 16.5 3.3/um 5.8
				LmV B 16.5 2.7/um 5.7
24.	eP	A	08 37 08.5	Kurile Islands 43.32 N 147.64 E
				H = 08 25 06.9 h = 33 km MB = 4.9
				D = 78.88 Az = 333 (NEIS)
				PV A 1.3s 26.2nm M = 5.1
24.	+eP	A	10 03 47	Kurile Islands 43.28 N 147.60 E
	epP	A	04 00	H = 09 51 46.0 h = 36.3 km MB=5.3 MS=5.0
	LmH	B	43.3	D = 78.90 Az = 333 (NEIS)
	LmV	B	43.5	h = 45 km
				PV A 1.4s 60.5nm M = 5.3
				LmH B 16 1.9/um 5.5
				LmV B 16.5 2.1/um 5.6
24.	eP	A	14 51 47	Southwest of Sumatra 6.43 S 102.88 E
	e	A	51 55.5	H = 14 38 22.5 h = 33 km MB=5.5 MS=5.8
	LmH	B	15 46.7	D = 95.72 Az = 320 (NEIS)
	LmV	B	46.8	LmH B 16s 1.3/um M = 5.5
				LmV B 16 1.7/um 5.6
24.	eP	A	21 43 20	North of Ascension Island
				3.75 S 11.99 W
				H = 21 33 30.0 h = 33 km MB = 5.0
				D = 57.85 Az = 18 (NEIS)
				PV A 1.4s 20.9nm M = 5.0

Day	Phase		h m s	Remarks
24.	ePKHKP	A	21 59 55	South of Fiji Islands 25.92 S 178.74 W
	ePKP2	A	22 00 08	H = 21 40 30.8 h = 301.6 km MB = 5.0
				D = 154.06 Az = 345 (NEIS)
24.	e(Pn)	A	22 32 56.5	
	eSg	A	33 34.5	
25.	ePg	A	06 19 12	Switzerland 46.35 N 7.46 E
	e	A	19 17	H = 06 17 39.5 h = 33 km
	eSg	A	20 21	D = 5.11 Az = 31 (NEIS)
25.	ePKIKP	A	08 25 56	Solomon Islands 9.15 S 156.70 E
	e	A	28 06	H = 08 06 45.4 h = 33 km MB=5.7 MS=6.1
	eiSS	C	45 20	D = 129.59 Az = 332 (NEIS)
	LmH	B	09 14.1	PKIKPV A 2.0s 34.2nm
	LmV	B	20.3	LmH B 22 8.0/um M = 6.4
				LmV B 22.5 4.2/um 6.1
25.	eP	A	10 09 22	Hokkaido, Japan Region 41.54 N 144.31 E
				H = 09 57 17.3 h = 27.4 km MB = 4.9
				D = 79.32 Az = 332 (NEIS)
				PV A 1.0s 13.8nm M = 4.9
25.	ePKIKP	A	14 33 40	Fiji Islands Region 21.09 S 178.49 W
	ePKHKP	A	33 45.5	H = 14 15 02.1 h = 593.2 km MB = 5.0
	ePKP2	A	33 52	D = 149.44 Az = 347 (NEIS)
	e	A	36 34	PKIKPV A traces
				PKHKPV A 1.6s 60.5nm
25.	ePKP	A	14 56 48.5	Tonga Region 18.0 S 172.3 W
				H = 14 37 02 h = 33 km MB = 4.8
				D = 147.30 Az = 355 (ISC)
26.	eP	A	00 27 13.5	Socotra Region 13.63 N 56.70 E
	e	A	27 19	H = 00 18 06.3 h = 33 km MB=5.4 MS=5.2
	e	A	27 37	D = 51.86 Az = 325 (NEIS)
	eS	C	34 35	PV A 1.8s 74.3nm M = 5.3
	LmH	B	52.3	LmH B 18 0.7/um 4.7
	LmV	B	55.9	LmV B 14 1.3/um 5.2

Day	Phase		h m s	Remarks
27.	eP	A	03 45 17.5	Northern Sinkiang, China 42.22 N 90.53 E H = 03 36 05.5 h = 33 km MB = 4.7 (NEIS) D = 52.6
27.	ePKP	A	11 02 28.5	Tonga Islands 17.76 S 174.73 W H = 10 42 47.7 h = 33 km MB = 4.9 D = 146.80 Az = 353 (NEIS) PKPV A 2.0s 51.3nm
27.	ePKP	A	11 03 53	Tonga Islands 18.50 S 173.35 W H = 10 44 05.1 h = 33 km MB = 4.6 D = 147.69 Az = 354 (NEIS) PKPV A 2.0s 85.5nm
27.	ePKP	A	11 21 33.5	Tonga Islands 17.77 S 174.76 W H = 11 01 52.6 h = 33 km MB=5.5 MS=4.7 D = 146.81 Az = 353 (NEIS) PKPV A 1.7s 90.9nm
27.	e(P)	A	11 43 21	(P)V A 2.0s 68.4nm
27.	e	A	12 10 27	
27.	ePKP	A	15 42 37	Tonga Islands 18.25 S 174.46 W H = 15 23 04.4 h = 108.6 km MB = 5.0 D = 147.32 Az = 353 (NEIS) PKPV A 1.0s 19.7nm
27.	e(Pn)	A	17 24 43	
	e(Sg)	A	25 23.5	
27.	eP	A	19 46 42	Kurile Islands 43.35 N 147.71 E H = 19 34 41.4 h = 42 km MB=5.0 MS=4.4 D = 78.88 Az = 333 (NEIS) PV A 1.4s 27.9nm M = 5.0

Day	Phase		h m s	Remarks
27.	eP	A	20 16 54	Ryukyu Islands 29.05 N 130.30 E H = 20 04 25.6 h = 33 km MB = 4.5 D = 83.98 Az = 326 (NEIS)
27.	eP	A	20 29 39	United Kingdom 57.62 N 7.15 W
	LmH	C	58.2	H = 20 26 33.0 h = 33 km
	LmV	C	58.3	D = 13.00 Az = 114 (NEIS) LmH C 16s 0.9/um M = 3.9 LmV C 20 1.0/um
28.	e	A	01 30 38	South of Australia 49.08 S 127.25 E H = 01 10 52.6 h = 33 km MB = 5.6 D = 139.65 Az = 298. (NEIS)
28.	iPg	A	03 22 11	
	eSg		22 28	
28.	eP	A	04 14 52	Turkey 39.56 N 39.69 E H = 04 09 49 h = 32 km D = 22.56 Az = 309 (ISC)
28.	eP	A	06 12 52	Kurile Islands 43.18 N 147.77 E H = 06 00 45.4 h = 6.9 km MB = 4.8 D = 79.05 Az = 333 (NEIS)
28.	eP	A	12 27 55	Off East Coast of Honshu, Japan 40.16 N 143.98 E H = 12 15 42.5 h = 14.3 km MB = 5.1 D = 80.41 Az = 332 (NEIS)
28.	LmH	B	16 44.7	Near East Coast of Honshu, Japan
	LmV	B	49.9	35.64 N 141.92 E H = 15 54 21.3 h = 51.7 km MB = 4.9 D = 83.58 Az = 331 (NEIS) LmH B 15s 2.0/um LmV B 14 1.9/um

Day	Phase		h m s	Remarks
28.	ePKP	A	17 04 19	Tonga Islands 17.73 S 174.71 W
				H = 16 44 44.9 h = 78 km MB = 5.0
				D = 146.77 Az = 353 (NEIS)
				PKPV A 1.7s 90.9nm
29.	eP	AC	02 31 24.5	Samar, Philippine Islands
	e	A	31 32	11.88 N 125.87 E
	ePP	AB	35 12.5	H = 02 17 59.8 h = 64 km MB = 5.3
	eSKS	B	41 56	D = 95.64 Az = 324 (NEIS)
	eS	B	42 40	LmH B 15s 9.9/um
	ePS	B	43 56	LmV B 14 9.7/um
	eSS	C	49 15	
	LmH	B	03 22.1	
	LmV	B	22.1	
29.	ePKP2	A	09 21 24	Kermadec Islands Region 31.88 S 178.40 W
	e	A	22 03	H = 09 00 53 h = 45 km MB = 5.3
				D = 159.84 Az = 341 (ISC)
29.	eP	A	09 32 07	Northern Colombia 6.34 N 76.88 W
	e	A	32 16.5	H = 09 19 30.9 h = 17.1 km MB = 5.0
				D = 84.19 Az = 40 (NEIS)
29.	ePKIKP	A	11 05 27	South Sandwich Islands Region
	LmV	B	46.0	57.76 S 25.34 W
	LmH	B	47.0	H = 10 46 55.6 h = 50.5 km MB=5.8 MS=6.2
				D = 112.23 Az = 24 (NEIS)
				LmH B 23s 2.4/um M = 6.7
				LmV B 24 3.2/um 6.8
29.	e(P)	A	11 16 25	(P)V A 1.5s 20.1nm
	e	A	16 39	
29.	ePP	A	13 54 45	Hawaii 19.36 N 155.05 W
				H = 13 35 40.5 h = 8 km
				MB = 5.8 MS = 5.1 (NEIS)
				D = 109.3

Day	Phase		h m s	Remarks
29.	eP diff	C	15 02 00	Hawaii 19.33 N 155.02 W
	ePP	C	06 45	H = 14 47 40.4 h = 5 km
	e	A	07 26	MB = 6.0 MS = 7.1 (NEIS)
	eSKS	C	12 50	D = 109.4
	ePS	C	16 30	LmH B 17.5s 40.5/um M = 7.1
	e(PKKP)	A	17 56	LmV B 19.5 44.8/um 7.1
	eSS	C	22 33	
	LmH	B	52.6	
	LmV	B	54.6	
29.	eP	A	16 30 21	Panama-Colombia Border Region
				7.63 N 77.44 W
				H = 16 17 52.9 h = 23 km MB = 5.1
				D = 83.56 Az = 40 (NEIS)
30.	e	A	04 10 49.5	East Papua New Guinea Region
				5.07 S 145.16 E
				H = 03 51 53.1 h = 47.4 km MB = 5.7
				D = 120.30 Az = 328 (NEIS)
30.	eP	A	04 24 21	Southern Greece 36.85 N 21.20 E
	e	A	27 51	H = 04 20 44.5 h = 54.5 km MB = 4.2
				D = 15.41 Az = 336 (NEIS)
30.	eP	A	10 59 51	Vancouver Island Region 49.36 N 123.51 W
				H = 10 48 22.0 h = 32.2 km MB=4.7 MS=3.5
				D = 73.24 Az = 28 (NEIS)
30.	eP	A	11 53 16	Near East Coast of Honshu, Japan
				38.95 N 142.51 E
				H = 11 41 03.9 h = 32 km MB = 4.6
				D = 80.93 Az = 331 (NEIS)
30.	eP	A	18 33 27	Yunnan Province, China 27.20 N 100.33 E
				H = 18 22 22.5 h = 18.1 km MB = 5.0
				D = 68.69 Az = 317 (NEIS)
				PV A 1.4s 23.2nm M = 5.1

Day	Phase		h m s	Remarks
30.	ePKP2	A	19 22 46	South of Fiji Islands 26 S 180 E
				H = 19 02 37 MB = 3.9 (NORSAR)
				D = 153.9
30.	+iP	AB	20 42 10	Fox Islands, Aleutian Is.
	eS	B	52 06	52.60 N 167.18 W
	eSS	C	57 10	H = 20 30 17.0 h = 24 km MB=5.7 MS=6.3
	LmH	B	21 22.6	D = 77.13 Az = 1 (NEIS)
	LmV	B	27.3	PV A 1.5s 296.0nm M = 6.1
				LmH B 16.5 11.7/um 6.3
				LmV B 18 9.0/um 6.2
30.	eP	A	22 46 26	Alma-Ata Region 42.72 N 79.44 E
	e	A	46 38	H = 22 38 06.7 h = 34.7 km MB = 4.7
				D = 45.71 Az = 305 (NEIS)
				PV A traces

Day	Phase		h m s	Remarks
1.	eP	A	02 17 09	Fox Islands, Aleutian Is.
				53.30 N 167.44 W
				H = 02 05 23.4 h = 52.9 km MB = 4.7
				D = 76.42 Az = 1 (NEIS)
1.	ePKP	A	02 33 33	New Hebrides Islands 15.62 S 167.59 E
				H = 02 14 16.3 h = 114.5 km MB = 4.9
				D = 140.05 Az = 336 (NEIS)
				traces
1.	eP	A	05 27 28	Near East Coast of Kamchatka
				53.92 N 160.58 E
				H = 05 16 05.0 h = 56.6 km MB = 4.5
				D = 72.60 Az = 340 (NEIS)
1.	-eP	A	12 20 19.5	Philippine Islands Region
	LmH	B	13 06.9	12.58 N 126.03 E
	LmV	B	08.7	H = 12 06 57.4 h = 29.6 km MB=5.6 MS=5.0
				D = 95.17 Az = 324 (NEIS)
				PV A 1.4s 36.2nm M = 5.6
				LmH B 16 1.0/um 5.4
				LmV B 18 0.9/um 5.3
1.	e	A	16 54 20	Iran 35.10 N 59.99 E
				H = 16 46 54.2 h = 35 km MB = 4.1 (NEIS)
				D = 38.9
2.	eP	A	23 36 08	Talaud Islands 3.12 N 125.53 E
				H = 23 22 28.9 h = 169.6 km MB = 5.4
				D = 102.48 Az = 323 (NEIS)
3.	eP	A	07 26 25.5	Hokkaido, Japan Region 43.22 N 145.65 E
	e	A	26 43	H = 07 14 32.4 h = 76 km MB = 5.3
	LmH	B	08 03.3	D = 78.31 Az = 332 (NEIS)
	LmV	B	04.3	PV A 1.7s 60.6nm M = 5.2
				LmH B 20 1.6/um
				LmV B 20 1.1/um

Day	Phase		h m s	Remarks
3.	eP	A	12 00 17	South Atlantic Ridge 21.17 S 11.62 W
	e	A	00 27	H = 11 48 41.5 h = 33 km MB=5.5 MS=5.2
				D = 74.38 Az = 15 (NEIS)
				PV A 2.3s 122.0nm M = 5.5
4.	eP	A	15 10 58	Oaxaca, Mexico 16.59 N 94.50 W
	epP	A	11 22	H = 14 58 20.2 h = 89 km MB = 5.0
				D = 87.17 Az = 38 (NEIS)
				h = 92 km
				PV A traces
				pPV A 1.5s 70.4nm
5.	+iP	A	07 46 00.5	Kashmir-India Border Region
				33.03 N 76.02 E
				H = 07 37 11.4 h = 32.7 km MB=5.4 MS=4.7
				D = 49.51 Az = 311 (NEIS)
				PV A 1.3s 43.7nm M = 5.3
5.	e(PKP)	A	14 44 30	Banda Sea 6.29 S 124.76 E
	e	A	44 38	H = 14 27 19.8 h = 576.5 km MB = 5.7
	e	A	44 47	D = 109.42 Az = 322 (NEIS)
	ePP	A	45 27	PPV A 1.3s 34.9nm M = 5.5
5.	eP	A	18 06 19.5	Alaska Peninsula 54.36 N 162.94 W
				H = 17 54 39.6 h = 45.5 km MB = 4.7
				D = 75.27 Az = 4 (NEIS)
5.	eiP	A	20 26 11.5	Kurile Islands 43.60 N 146.39 E
	LmH	B	21 07.0	H = 20 14 18.2 h = 67.7 km MB = 5.8
	LmV	B	07.0	D = 78.22 Az = 333 (NEIS)
				PV A 1.7s 326.8nm M = 6.0
				LmH B 18 1.4/um
				LmV B 18 1.6/um
6.	-eP	AC	05 26 00	Philippine Islands Region
	ePP	A	29 27	17.42 N 119.68 E
	eS	C	36 40	H = 05 13 11.7 h = 19.3 km MB = 5.8
				D = 87.66 Az = 323 (NEIS)
				PV A 2.1s 163.0nm M = 6.0

Day	Phase		h m s	Remarks
cont. 6.	LmV	B	06 11.7	PPV A 1.9s 75.7nm M = 5.8
	LmH	B	14.5	LmH B 12.5 2.2/um 5.8
				LmV B 12.5 2.8/um 5.9
7.	ePKHKP	A	04 13 30.5	Tonga Region 18.1 S 173.0 W
				H = 03 53 44 h = 12 km
				D = 147.30 Az = 355 (ISC)
				PKHKPV A 1.6s 22.0nm
7.	ePKIKP	A	04 21 15	New Ireland Region 4.47 S 153.42 E
	ePP	AC	22 59	H = 04 02 18.5 h = 39.6 km MB=5.7 MS=5.8
	eSS	C	40 00	D = 123.95 Az = 332 (NEIS)
	LmH	B	05 15.4	PPV A 2.2s 98.1nm M = 5.8
	LmV	B	17.4	LmH B 20.5 1.7/um 5.7
				LmV B 20 1.6/um 5.7
7.	LmV	B	10 37.9	Ryukyu Islands 29.54 N 130.70 E
	LmH	B	38.1	H = 09 43 58.3 h = 24.6 km MB=4.9 MS=4.8
				D = 83.77 Az = 326 (NEIS)
				LmH B 18s 0.7/um M = 5.1
				LmV B 16 1.0/um 5.3
7.	eP	A	12 16 06.5	Kurile Islands 48.1 N 153.0 E
				H = 12 04 21 h = 23 km MB = 4.5
				D = 76.16 Az = 336 (ISC)
8.	ePKHKP	A	07 53 38	Fiji Islands Region 17.90 S 176.60 W
				H = 07 34 05.0 h = 92.9 km MB = 4.8
				D = 146.67 Az = 350 (NEIS)
				traces
8.	ePg	A	15 37 54	Switzerland 46.5 N 7.3 E
				H = 15 36 10 (BCIS)
				D = 5.05
8.	eP	A	19 07 10	Off East Coast of Kamchatka
	epP	A	07 21	52.80 N 160.10 E
				H = 18 55 40.6 h = 53.5 km MB=5.2 MS=4.6
				D = 73.55 Az = 340 (NEIS)
				h = 44 km

Day	Phase		h m s	Remarks
8.	eP	A	21 31 40	Fox Islands, Aleutian Is.
				52.76 N 166.86 W
				H = 21 19 47.8 h = 18.8 km MB = 4.9
				D = 76.96 Az = 1 (NEIS)
8.	eP	AB	22 58 58	Greenland Sea 79.14 N 2.16 E
	eS	BC	03 50	H = 22 53 01.5 h = 33 km MB=5.2 MS=5.2
	LmV	B	23 10.9	D = 28.81 Az = 167 (NEIS)
	LmH	B	23 11.0	PV A 1.3s 39.4nm M = 4.9
				LmH B 15 3.4/um 5.1
				LmV B 14 4.3/um 5.3
9.	eiP	A	01 36 10.5	Mindanao, Philippine Islands
	ePP	A	40 23	6.05 N 123.72 E
	e	A	43 00	H = 01 23 26.9 h = 548.2 km MB = 5.7
	e(SKS)	C	46 50	D = 99.06 Az = 323 (NEIS)
	e	C	50 30	PV A 1.1s 64.5nm M = 6.0
	LmV	B	02 24.9	LmH B 17 0.7/um
	LmH	B	25.0	LmV B 17 0.8/um
9.	ePKP	AB	09 34 12	Samoa Islands Region 14.79 S 173.00 W
	eSS	C	56 50	H = 09 14 40.6 h = 33 km MB=6.0 MS=6.2
	e	C	10 01 20	D = 144.04 Az = 355 (NEIS)
	LmH	B	31.9	PKPV A 2.8s 751.1nm
	LmV	B	31.9	PKPV B 12 1.9/um
				LmH B 23 6.0/um M = 6.3
				LmV B 23 5.1/um 6.2
9.	ePKP	A	13 52 34	Fiji Islands Region 18.05 S 178.59 W
	e	A	52 37	H = 13 34 04.1 h = 635.2 km MB = 5.1
				D = 146.47 Az = 348 (NEIS)
				PKPV A 1.4s 14.0nm
9.	LmH	C	16 34.8	LmH C 23s 0.3/um
	LmV	C	34.8	LmV C 23 0.45/um
10.	eP	A	03 34 59	Kashmir India Border Region
	eS	C	42 08	30.02 N 79.10 E
	LmH	B	04 00.4	H = 03 26 08.4 h = 21 km MB=5.4 MS=5.0

Day	Phase		h m s	Remarks
cont. 10.	LmV	B	04 00.5	D = 49.56 Az = 311 (NEIS)
				PV A 1.2s 34.6nm M = 5.3
				LmH B 12 1.4/um 5.2
				LmV B 12 1.5/um 5.3
10.	eP	A	06 31 32	Kirgiz-Sinkiang Border Region
				40.48 N 77.38 E
				H = 06 23 12.6 h = 50.7 km MB = 5.2
				D = 45.73 Az = 306 (NEIS)
10.	ePKP	A	13 45 58	Tonga Islands 16.30 S 173.98 W
	e	A	46 28	H = 13 26 24.4 h = 59 km MB = 4.6
				D = 145.44 Az = 354 (NEIS)
10.	eP	A	18 16 52	Crete 34.15 N 25.78 E
	e	A	16 59	H = 18 12 28.7 h = 52.3 km MB = 5.1
				D = 19.47 Az = 332 (NEIS)
10.	LmH	C	18 23.5	Near Coast of Northern Chile
	LmV	C	24.3	26.40 S 70.4 W
				H = 17 26 26 h = 53 km MB = 4.7 (ISC)
				D = 105.2
				LmH C 24s 0.25/um
				LmV C 20 0.4/um
11.	eP	A	03 52 30	Andreanof Islands, Aleutian Is.
				51.43 N 178.13 W
				H = 03 40 38.0 h = 65.9 km MB = 4.5
				D = 77.96 Az = 354 (NEIS)
				traces
11.	eP	A	06 40 12	Vancouver Island Region 50.15 N 129.93 W
	LmH	B	07 16.9	H = 06 28 35.5 h = 33 km MB=4.7 MS=4.5
	LmV	B	17.8	D = 74.36 Az = 24 (NEIS)
				PV A traces
				LmH B 13.5s 0.4/um M = 4.9
				LmV B 16 0.5/um 5.0

Day	Phase		h m s	Remarks
11.	eP	A	07 14 54	Vancouver Island Region 50.18 N 129.85 W
	LmV	B	50.6	H = 07 03 13.8 h = 22 km MB=4.8 MS=4.5
	LmH	B	51.4	D = 74.30 Az = 24 (NEIS)
				PV A traces
				LmH B 14s 0.35/um M = 4.8
				LmV B 15 0.5/um 5.0
11.	eP	A	07 54 33	Ryukyu Islands 26.12 N 126.56 E
				H = 07 42 13.4 h = 128.9 km MB = 4.9
				D = 84.48 Az = 325 (NEIS)
11.	eP	A	09 52 38	Off East Coast of Honshu 40.20 N 143.77 E
				H = 09 40 27
				D = 80.30 Az = 331 (ISC)
11.	eP	A	10 18 39	Kashmir-India Border Region
	LmH	C	27.4	32.84 N 75.99 E
	LmV	C	34.6	H = 10 09 51.8 h = 58.9 km MB=5.1 (NEIS)
				D = 49.7
				PV A 0.9s 13.6nm M = 5.0
				LmH C 17.5 0.8/um
				LmV C 16 0.3/um
11.	eP	A	13 56 15	Caspian Sea 42.53 N 48.54 E
				H = 13 50 40.6 h = 33 km MB = 4.6
				D = 26.42 Az = 301 (NEIS)
				traces
11.	+iP	AB	16 55 06.5	Kurile Islands 44.79 N 148.99 E
	LmH	C	17 27.0	H = 16 43 14.0 h = 67.1 km MB = 5.6
				D = 78.00 Az = 334 (NEIS)
				PV A 1.6s 198.0nm M = 5.8
				LmH C 19 0.7/um
11.	eP	A	20 30 28.5	Peru 11.56 S 74.55 W
	epP	A	30 54	H = 20 17 08.1 h = 98 km MB = 6.0
	esP	A	31 06	D = 96.42 Az = 40 (NEIS)
				h = 100 km
				PV A 2.0s 77.0nm M = 5.9

Day	Phase		h m s	Remarks
12.	eP	A	08 26 12	Samar, Philippine Islands
				11.97 N 125.78 E
				H = 08 12 50.8 h = 53.3 km MB = 5.3
				D = 95.52 Az = 324 (NEIS)
12.	e(pPKP)	A	13 28 28	Santa Cruz Islands 12.01 S 166.39 E
	LmH	C	14 30.2	H = 13 08 53.9 h = 52.8 km MB=5.3 MS=5.3
	LmV	C	30.3	D = 136.30 Az = 337 (NEIS)
				LmH C 21s 0.7/um
				LmV C 21 0.8/um
13.	eP	A	03 56 33	Unimak Islands Region 54.7 N 164.7 W
				H = 03 44 55 h = 33 km MB = 4.6
				D = 74.98 Az = 2 (ISC)
13.	+iP	A	05 04 46.3	Eastern Kazakh SSR 49.80 N 78.20 E
	ePn	A	06 16	H = 04 56 57.3 h = 0 km MB = 5.1
				D = 41.30 Az = 298 (NEIS)
				PV A 1.2s 36.6nm M = 5.0
13.	eP	A	22 46 36	Burma-India Border Region
				23.68 N 94.33 E
				H = 22 35 44.2 h = 62.9 km MB = 5.2
				D = 67.55 Az = 317 (NEIS)
				PV A 1.2s 20.3nm M = 4.9
13.	e(PKP)	A	23 57 51	South Pacific Cordillera
	LmH	B	25 10.1	65.23 S 179.89 W
	LmV	B	14.2	H = 23 36 48.0 h = 33 km MB = 5.3 (NEIS)
				D = 164.1
				LmH B 19s 1.3/um M = 5.7
				LmV B 19.5 1.8/um 5.9
14.	eP	A	21 02 36.5	Negros, Philippine Islands
	e	A	02 46	9.78 N 122.59 E
	LmV	B	53.5	H = 20 49 10.1 h = 14.2 km MB = 5.7
	LmH	B	53.7	D = 95.42 Az = 323 (NEIS)
				PV A 1.4s 23.3nm M = 5.4
				LmH B 16 1.1/um 5.4
				LmV B 17.5 1.8/um 5.6

Day	Phase		h m s	Remarks
14.	eP1	A	23 24 50	Western Arabian Peninsula
	iP2	A	24 53	14.62 N 42.24 E
				H = 23 16 47.6 h = 33 km MB = 5.3
				D = 43.63 Az = 332 (NEIS)
				P1V A 1.6s 35.7nm M = 4.8
				P2V A 1.6 110.0nm 5.4
14.	eP	A	23 35 28	Western Arabian Peninsula
	ePP	A	37 13	14.74 N 42.32 E
				H = 23 27 25.9 h = 33 km MB = 5.3
				D = 43.57 Az = 332 (NEIS)
				PV A 1.9s 136.5nm M = 5.4
15.	ePKP	A	01 28 26	Fiji Islands Region 17.86 S 176.48 W
				H = 01 08 50.5 h = 76.8 km MB = 5.1
				D = 146.66 Az = 351 (NEIS)
				PKPV A 1.6s 44.0nm
15.	ePKP2	A	04 44 32.5	Kermadec Islands 29.00 S 178.60 W
				H = 04 24 28.8 h = 200.3 km MB = 5.2 (NEIS)
				D = 157.0
				PKP2V A 1.1s 20.2nm
15.	+iP	A	13 48 05.5	Central Mid-Atlantic Ridge
	ePa	A	51 44	0.63 N 26.06 W
	eSa	C	56 12	H = 13 38 06.0 h = 33 km
	LmV	B	14 12.4	MB = 5.5 MS = 5.5 (NEIS)
	LmH	B	12.6	D = 59.4
				PV A 1.6s 71.4nm M = 5.6
				LmH B 19 2.9/um 5.4
				LmV B 17 3.1/um 5.6
15.	ePKP2	A	19 20 49	South of Fiji Islands 24.83 S 177.54 W
				H = 19 00 46.2 h = 102.5 km MB = 4.6
				D = 153.27 Az = 347 (NEIS)
16.	ePKIKP	A	02 24 09	Fiji Islands Region 20.26 S 177.94 W
	ePKHKP	A	24 13	H = 02 05 26.8 h = 550 km MB = 4.5

Day	Phase		h m s	Remarks
cont. 16.	ePKP2	A	02 24 19	D = 148.75 Az = 348 (NEIS)
				PKIKPV A traces
				PKHKPV A 1.2s 24.4nm
16.	eP	A	04 02 04	Iceland Region 66.51 N 17.98 W
	LmH	C	10.3	H = 03 57 10.8 h = 10 km MB = 4.5
	LmV	C	10.3	D = 21.81 Az = 122 (NEIS)
				PV A 1.2s 24.4nm M = 4.5
				LmH C 20 0.9/um 4.2
				LmV C 20 0.35/um 4.0
16.	eP	A	05 01 45	Kurile Islands 43.03 N 147.03 E
				H = 04 49 44.2 h = 38 km MB=5.0 MS=4.3
				D = 78.94 Az = 333 (NEIS)
16.	eP	A	08 11 30	Greece-Albania Border Region
				39.52 N 20.62 E
				H = 08 08 30.8 h = 66.2 km MB = 4.5
				D = 12.81 Az = 333 (NEIS)
16.	eP	A	10 18 02	Iceland Region 66.27 N 17.81 W
				H = 10 13 12.0 h = 20 km MB = 4.5
				D = 21.63 Az = 122 (NEIS)
16.	LmH	B	11 01.6	Kyushu, Japan 30.16 N 131.04 E
	LmV	B	03.5	H = 10 07 18.4 h = 33 km MB = 5.1
				D = 83.42 Az = 326 (NEIS)
				LmH B 15s 0.7/um M = 5.1
				LmV B 14 1.5/um 5.5
16.	eP	A	13 40 49	North Atlantic Ocean 35.67 N 17.02 W
	eS	C	45 30	H = 13 35 22.4 h = 33 km MB=4.9 MS=4.6
	LmH	C	48.9	D = 25.49 Az = 45 (NEIS)
	LmV	C	51.7	PV A 1.2s 24.4nm M = 4.7
				LmH C 16 1.3/um 4.5
16.	eP	A	15 52 52	South of Honshu, Japan 29.71 N 137.75 E
	ePP	A	56 22	H = 15 40 59.6 h = 484 km MB = 5.0
				D = 86.92 Az = 329 (NEIS)

Day	Phase		h m s	Remarks
16.	ePKP	A	21 21 16	Fiji 18.61 S 178.2 E
	epPKP	A	21 25	H = 21 01 41 h = 42 km
				D = 146.31 Az = 345 (ISC)
17.	eP	A	02 56 50.5	Crete 34.32 N 26.14 E
				H = 02 52 19.6 h = 52.5 km MB = 4.4
				D = 19.46 Az = 331 (NEIS)
17.	eP1	A	05 47 40	Northern Sumatra 5.28 N 95.91 E
	eiP2	AB	47 45.5	H = 05 35 17.8 h = 17 km MB=5.6 MS=6.2
	eS	B	57. 54	D = 82.32 Az = 320 (NEIS)
	eSS	C	06 03 50	P1V A 1.1s 28.2nm M = 5.3
	LmV	B	30.3	P2V A 1.5 95.5nm 5.7
	LmH	B	30.4	P2V B 5.5 1.5/um 6.3
				LmH B 19 6.9/um 6.0
				LmV B 19 8.8/um 6.2
17.	+iPKIKP	A	08 01 05	Solomon Islands 7.00 S 155.75 E
	e	A	02 53	H = 07 42 06.7 h = 66.6 km MB = 5.8
				D = 127.27 Az = 332 (NEIS)
				PKIKPV A 1.2s 73.2nm
17.	ePKHKP	A	14 00 33	South of Fiji Islands 22.17 S 179.76 W
				H = 13 41 49.5 h = 618 km MB = 4.9 (NEIS)
				D = 150.2
18.	ePKIKP	A	00 41 55.5	New Britain Region 5.07 S 151.28 E
	e	A	42 46	H = 00 23 11.3 h = 125.1 km MB = 5.5
				D = 123.45 Az = 330 (NEIS)
18.	eP	A	08 36 09	Kashmir-Tibet Border Region
	LmH	B	56.1	35.69 N 79.69 E
	LmV	B	59.7	H = 08 27 14.0 h = 33 km MB = 4.9
				D = 50.10 Az = 310 (NEIS)
				LmH B 20s 0.6/um M = 4.6
				LmV B 15 0.5/um 4.7
18.	ePKP	A	12 02 27.5	Tonga Islands 17.95 S 173.62 W
				H = 11 42 46.5 h = 33.9 km MB = 5.0
				D = 147.11 Az = 354 (NEIS)

Day	Phase		h m s	Remarks
18.	eP	A	13 16 06	Southern Italy 39.2 N 16.0 E
				H = 13 13 25 h = 205 km (BCIS)
				D = 11.95
				PV A 1.1s 10.1nm M = 4.1
19.	ePKIKP	AB	02 33 48.5	Santa Cruz Islands Region
	ePP	AB	36 23	11.75 S 164.80 E
	ePKS	BZ	37 20	H = 02 14 29.6 h = 33 km MB=6.0 MS=5.8
	ePS	C	48 28	D = 135.44 Az = 336 (NEIS)
	eSS	C	54 15	PKIKPV A 2.2s 109.1nm
	LmH	B	03 36.9	PPV A 1.9 53.0nm M = 5.4
	LmV	B	37.8	PKSV B 11 1.5/um
				LmH B 19 1.1/um 5.6
				LmV B 20 1.6/um 5.7
19.	eP	A	12 54 13.5	Southern Iran 28.21 N 57.15 E
				H = 12 46 31.1 h = 33 km MB = 4.6
				D = 40.87 Az = 316 (NEIS)
				PV A 2.5s 61.5nm M = 4.9
19.	eP	A	23 18 33	Kurile Islands 46.87 N 152.74 E
				H = 23 06 40.9 h = 33 km MB = 4.9
				D = 77.24 Az = 336 (NEIS)
20.	ePKP	A	02 49 45	Loyalty Islands 21.20 S 168.80 E
				H = 02 30 05.8 h = 31.5 km
				D = 145.58 Az = 334 (NEIS)
20.	eiPKP	A	03 03 22	Loyalty Islands 20.98 S 168.58 E
	epPKP	A	03 32.5	H = 02 43 46.1 h = 33 km MB = 4.9
	esPKP	A	03 40	D = 145.29 Az = 334 (NEIS)
				h = 42 km
				PKPV A 1.4s 74.4nm
20.	eiPKP	A	03 10 42	Loyalty Islands 21.05 S 168.60 E
				H = 02 51 04.2 h = 25.7 km MB = 4.5
				D = 145.36 Az = 334 (NEIS)
				PKPV A 1.2s 32.5nm

Day	Phase		h m s	Remarks
20.	ePKP	A	03 22 37.5	Loyalty Islands 21.0 S 168.7 E
	epPKP	A	22 47	H = 03 03 02 h = 33 km
				D = 145.35 Az = 334 (ISC)
				h = 35 km
20.	ePKP	A	03 46 47	Loyalty Islands 21.10 S 168.68 E
	epPKP	A	46 56.5	H = 03 27 09.3 h = 33 km
				D = 145.44 Az = 334 (ISC)
				h = 35 km
				PKPV A 1.2s 16.3nm
20.	+iPKP	A	06 32 05.7	Loyalty Islands 20.96 S 168.60 E
	epPKP	A	32 14.5	H = 06 12 29.0 h = 33 km
				D = 145.28 Az = 334 (NEIS)
				h = 35 km
20.	ePKP	A	19 17 19	Loyalty Islands 21.03 S 168.57 E
	epPKP	A	17 28.5	H = 18 57 41.6 h = 33 km
				D = 145.32 Az = 334 (ISC)
				h = 35 km
20.	eP	A	20 12 18	Southern Nevada 37.13 N 116.06 W
	ePP	A	15 24	H = 20 00 00.2 h = 0 km MB=5.7 MS=4.0
				D = 81.23 Az = 31 (NEIS)
				Nuclear explosion CHIBERTA (USAEC)
				PVA 1.6s 71.4nm M = 5.5 PPV A traces
21.	eP	A	01 26 12	Carlsberg Ridge 8.55 N 58.37 E
				H = 01 16 27.1 h = 33 km MB=5.0 MS=5.3
				D = 56.96 Az = 326 (NEIS)
21.	-iP	AB	11 04 48.5	Sea of Okhotsk 51.94 N 151.58 E
	ipP	B	06 38	H = 10 54 17.7 h = 554 km MB = 6.0
	iPP	B	07 36	D = 72.31 Az = 335 (NEIS)
	epPP	C	08 32	h = 543 km
	ePPPP	C	10 10	PV A 0.9s 1690.0nm M = 6.6
	e	C	10 50	PPV B 12 7.7/um 6.6
	e	C	11 55	LmH B 16 10.2/um
	eS	BC	13 24	LmV B 15 7.8/um
	eSKS	C	13 50	

Day	Phase		h m s	Remarks
cont. 21.	esS	B	11 16 36	
	LmH	B	23.7	
	LmV	B	30.6	
21.	eP	A	12 56 37.5	Iceland Region 66.24 N 16.51 W
				H = 12 51 53.7 h = 33 km MB = 4.2
				D = 21.17 Az = 124 (NEIS)
21.	eP	A	15 41 28	Eastern Mediterranean Sea
				34.77 N 27.12 E
				H = 15 37 05.7 h = 66.2 km MB = 4.6
				D = 19.47 Az = 329 (NEIS)
				PV A 1.2s 24.4nm M = 4.3
21.	eP	A	16 11 12.5	Greece 38.65 N 21.86 E
	LmH	B	16.4	H = 16 07 55.8 h = 33 km MB=5.3 MS=5.4
	LmV	B	17.5	D = 14.02 Az = 332 (NEIS)
				PV A 1.1s 44.3nm M = 5.1
				LmH B 9.5 23.8/um 5.6
				LmV B 12 19.7/um
21.	eP	A	18 18 42.5	Peru-Ecuador Border-Region
				3.78 S 77.37 W
				H = 18 05 40.6 h = 87 km MB = 5.3
				D = 92.25 Az = 40 (NEIS)
21.	eP	A	21 08 46	Greece 38.66 N 22.01 E
				H = 21 05 20.7 h = 33 km MB = 4.3
				D = 14.07 Az = 332 (NEIS)
21.	eP	A	21 48 22.5	Kurile Islands Region 44.60 N 150.22 E
				H = 21 36 22.7 h = 33 km MB = 5.0
				D = 78.56 Az = 335 (NEIS)
22.	eP	A	17 07 47	Off East Coast of Kamchatka
				53.60 N 161.51 E
				H = 16 56 18.6 h = 33 km MB = 4.5
				D = 73.08 Az = 341 (NEIS)

Day	Phase		h m s	Remarks
23.	ePKP	A	01 00 42.5	Fiji Islands Region 18.07 S 178.42 W
				H = 00 42 08.2 h = 622 km MB = 4.8
				D = 146.52 Az = 348 (NEIS)
23.	eP	A	06 23 07	Iceland Region 66.29 N 15.98 W
				H = 06 18 24.9 h = 33 km MB = 4.5
				D = 21.02 Az = 12.5 (NEIS)
23.	ePKP	A	07 12 56.5	Fiji Region 16.9 S 176.98 W
				H = 06 53 19 h = 25 km MB = 4.4
				D = 145.67 Az = 350 (ISC)
23.	eiPKP	A	10 09 03.5	Loyalty Islands 21.01 S 168.54 E
	epPKP	A	09 14	H = 09 49 27.2 h = 33 km MB = 4.2
				D = 145.30 Az = 334 (NEIS)
				h = 40 km
				PKPV A 1.2s 54.9nm
23.	eP	A	15 45 02	Iceland Region 63.88 N 22.22 W
	LmV	B	56.6	H = 15 40 06.8 h = 33 km MB = 4.6
	LmH	B	56.7	D = 22.25 Az = 111 (NEIS)
				PV A 1.0s 17.7nm M = 4.5
				LmH B 11.5 1.5/um 4.7
				LmV B 11 1.8/um 4.9
23.	eP	A	16 04 53.5	South Atlantic Ridge 12.38 S 14.72 W
				H = 15 53 56.6 h = 33 km MB = 4.7
				D = 66.85 Az = 18 (NEIS)
23.	eP	A	16 11 51.5	Iceland 64.32 N 21.64 W
	LmH	B	23.3	H = 16 06 57.5 h = 33 km MB = 4.3
	LmV	B	23.4	D = 22.17 Az = 112 (NEIS)
				PV A 1.2s 20.3nm M = 4.4
				LmH B 10 0.7/um 4.2
				LmV B 10 1.0/um 4.6

Day	Phase		h m s	Remarks
23.	eP	A	16 33 07	Iceland 65.04 N 21.32 W
	LmH	B	44.7	H = 16 28 09.8 h = 33 km MB = 4.3
	LmV	B	44.8	D = 22.33 Az = 114 (NEIS)
				PV A 1.5s 30.2nm M = 4.5
				LmH B 10 0.7/um 4.2
				LmV B 10 1.0/um 4.6
24.	eP	A	09 38 41	Iceland Region 66.11 N 16.70 W
	LmH	B	48.0	H = 09 33 56.9 h = 33 km MB = 4.8
	LmV	B	51.5	D = 21.16 Az = 123 (NEIS)
				PV A 1.6s 55.0nm M = 4.7
				LmH B 15.5 0.9/um 4.3
				LmV B 14 1.3/um 4.6
24.	eP	AB	11 56 36	Southern Iran 27.01 N 55.54 E
	ePP	C	58 15	H = 11 48 56.8 h = 33 km MB=5.5 MS=5.4
	eS	C	12 02 42	D = 40.76 Az = 317 (NEIS)
	eSS	C	05 55	PV A 1.6s 82.4nm M = 5.2
	LmH	B	14.1	PV B 8 1.0/um 5.6
	LmV	B	15.8	LmH B 20.5 4.8/um 5.4
				LmV B 15 3.1/um 5.4
24.	ePP	AC	15 19 30	Solomon Islands 10.74 S 163.30 E
	eSS	C	37 00	H = 14 57 35.0 h = 33 km MB=5.6 MS=5.7
	eSSS	C	42 40	D = 133.91 Az = 335 (NEIS)
	LmH	B	16 18.8	PPV A 1.8s 74.4nm M = 5.5
	LmV	B	23.0	LmH B 20 1.7/um 5.7
				LmV B 20 2.3/um 5.9
24.	eP	A	17 08 28	Southern Greece 37.31 N 22.34 E
	e	A	11 25	H = 17 05 00.2 h = 109.5 km MB = 4.6
				D = 15.38 Az = 333 (NEIS)
24.	eP	A	17 45 51	Iceland Region 66.05 N 16.72 W
	LmV	B	55.6	H = 17 41 02.5 h = 10 km MB = 4.7
	LmH	B	55.8	D = 21.14 Az = 123 (NEIS)
				PV A 3.0s 210.0nm M = 5.0
				LmH B 17 0.8/um 4.2
				LmV B 16 1.1/um 4.5

Day	Phase		h m s	Remarks
24.	e	A	18 48 23	Southern Iran 27.01 N 55.57 E
				H = 18 40 32.9 h = 33 km MB=4.7 MS=4.7
				D = 40.78 Az = 317 (NEIS)
24.	eiP	A	19 00 00.5	Kurile Islands 45.41 N 151.47 E
				H = 18 48 04.5 h = 45 km MB=5.3 MS=4.2
				D = 78.20 Az = 335 (NEIS)
				PV A 1.2s 52.8nm M = 5.4
24.	eP	A	20 02 49.5	Southern Iran 27.08 N 55.50 E
				H = 19 55 11.0 h = 33 km MB = 5.0
				D = 40.69 Az = 317 (NEIS)
				PV A 2.0s 42.7nm M = 4.8
24.	e	A	21 12 02	Southern Iran 27.03 N 55.54 E
				H = 21 04 13.1 h = 33 km MB = 4.7
				D = 40.75 Az = 317 (NEIS)
24.	eP	A	23 44 33	Fox Islands, Aleutian Is.
				52.43 N 168.68 W
				H = 23 32 39.6 h = 33 km MB = 5.0
				D = 77.30 Az = 360 (NEIS)
				PV A 1.4s 18.6nm M = 4.9
25.	eP	A	05 23 35	Kurile Islands 50.40 N 157.0 E
				H = 05 11 50.1 h = 0 km MB = 4.9
				D = 75.09 Az = 338 (ISC)
				PV A 1.2s 16.3nm M = 4.9
25.	+iP	AB	05 24 48.3	Eastern Kazakh SSR 50.04 N 78.90 E
	ePn	A	26 22.5	H = 05 16 57.2 h = 0 km MB=5.8 MS=5.2
				D = 41.58 Az = 298 (NEIS)
				Underground explosion MB = 6.7 (UPP)
				PV A 1.0s 185.0nm M = 5.8
25.	eP	A	05 49 06	Iceland Region 66.10 N 16.90 W
	LmH	B	58.5	H = 05 44 17.3 h = 10 km MB = 4.6

Day	Phase		h m s	Remarks
cont. 25.	LmV	B	05 58.5	D = 21.23 Az = 123 (NEIS)
				LmH B 14s 0.9/um M = 4.3
				LmV B 16 1.2/um 4.5
25.	eP	A	15 48 27.5	Kurile Islands 45.43 N 151.37 E
	LmH	C	16 22.7	H = 15 36 31.5 h = 48 km MB=5.1 MS=4.4
				D = 78.16 Az = 335 (NEIS)
				PV A 1.2s 36.6nm M = 5.3
25.	eP	A	16 12 12	Kurile Islands 45.45 N 151.39 E
	LmH	C	39.7	H = 16 00 16.3 h = 46 km MB=5.4 MS=4.3
	LmV	C	49.6	D = 78.14 Az = 335 (NEIS)
				PV A 1.3s 65.5nm M = 5.5
				LmH C 20 0.6/um 4.9
				LmV C 20 0.6/um 5.0
25.	ePKHKP	A	17 51 14	South of Fiji Islands 24.62 S 178.99 E
	ePKP2	A	51 26.5	H = 17 32 19.0 h = 540.7 km MB = 4.5
				D = 152.25 Az = 343 (NEIS)
25.	eP	A	21 50 21.5	Off Coast of Hokkaido, Japan
				42.76 N 147.30 E
				H = 21 38 15.9 h = 41 km MB = 5.1
				D = 79.27 Az = 333 (NEIS)
				PV A 2.0s 34.2nm M = 5.0
25.	+eP	AB	22 09 21	Iceland Region 66.14 N 16.45 W
	eS	B	13 20	H = 22 04 35.1 h = 10 km MB = 5.1
	LmH	B	17.9	D = 21.09 Az = 124 (NEIS)
	LmV	B	18.7	PV A 1.2s 85.4nm M = 5.0
				SH B 15 2.6/um 5.1
				LmH B 17 6.3/um 5.1
				LmV B 16 4.8/um 5.1
25.	eP diff	AB	23 37 16	Papua New Guinea 4.08 S 142.04 E
	ePKIKP	AB	40 57	H = 23 22 21.7 h = 115 km MB = 6.6
	ePP	A	41 28.5	D = 117.80 Az = 327 (NEIS)
	ei	A	42 05	PKKPV A 2.0s 76.9nm

Day	Phase		h m s	Remarks
cont. 25.	ei	A	23 42 15	LmH B 19.5s 18.0/um
	ePKKP	A	51 24	LmV B 22 23.9/um
	eiPS	C	52 24	
	eiPPS	C	53 40	
	eiSS	C	58 58	
	LmV	B	24 32.5	
	LmH	B	32.6	
26.	-eP	A	00 55 15.5	Iceland Region 66.06 N 16.81 W
				H = 00 50 31.3 h = 33 km MB = 4.9
				D = 21.17 Az = 123 (NEIS)
				PV A 1.8s 87.8nm M = 4.9
26.	ePKP	A	03 29 00.5	Loyalty Islands 20.99 S 168.63 E
	e	A	29 09.5	H = 03 09 22.9 h = 30.7 km
				D = 145.32 Az = 334 (NEIS)
26.	eP	A	09 29 00	Iceland Region 66.14 N 16.43 W
	e	A	29 04	H = 09 24 16.5 h = 33 km MB = 4.6
				D = 21.09 Az = 124 (NEIS)
26.	eP	A	10 50 25.5	Kurile Islands 43.18 N 147.22 E
				H = 10 38 23.6 h = 39.8 km MB = 5.0
				D = 78.87 Az = 333 (NEIS)
				PV A 1.5s 30.2nm M = 5.1
26.	eP	A	11 27 26	Ionian Sea 37.2 N 19.3 E
	e	A	27 36	H = 11 24 23 h = 514 km
				D = 14.54 Az = 340 (ISC)
26.	ePKP	A	12 12 44	Loyalty Islands 21.03 S 168.61 E
	epPKP	A	12 54.5	H = 11 53 06.7 h = 33 km
				D = 145.34 Az = 334 (NEIS)
				h = 38 km
				PKPV A 1.8s 54.1nm
26.	-iPKP	AB	16 16 15.4	Samoa Islands Region 16.27 S 172.47 W
	eiX	B	16 38	H = 15 56 38.7 h = 33 km MB=6.4 MS=7.8

Day	Phase		h m s	Remarks
cont. 26.	ePP	B	16 20 00	D = 145.55 Az = 355 (NEIS)
	LmH	B	17 23.2	PKPV B 13s 64.3/um
	LmV	B	27.6	XV A 17 154.5/um
				LmH B 20 157.9/um M = 7.7
				LmV B 18 164.8/um 7.8
26.	eP	A	17 01 24	Iceland Region 66.12 N 16.86 W
				H = 16 56 37.1 h = 10 km MB = 4.6
				D = 21.22 Az = 123 (NEIS)
				PV A 2.0s 59.8nm M = 4.6
26.	+ePKP	A	17 54 25.5	Samoa Islands Region 16.28 S 172.23 W
	e	A	54 45	H = 17 34 49.0 h = 33 km MB = 4.9
				D = 145.58 Az = 356 (NEIS)
26.	ePKP	A	18 03 23	Samoa Region 16.6 S 172.36 W
				H = 17 43 44.8 h = 33 km
				D = 145.90 Az = 355 (ISC)
26.	ePKP	A	18 31 48	Samoa Islands Region 16.05 S 172.94 W
				H = 18 12 12.1 h = 33 km MB = 5.4
				D = 145.30 Az = 355 (NEIS)
				PKPV A 1.4s 83.7nm
26.	ePKP	A	18 42 25	Samoa Islands Region 16.57 S 172.34 W
				H = 18 22 45.4 h = 33 km MB = 4.9
				D = 145.86 Az = 356 (NEIS)
				PKPV A 1.6s 22.0nm
26.	ePKP	A	19 26 24	Samoa Islands Region 15.20 S 172.34 W
				H = 19 06 50.5 h = 33 km MB = 5.2
				D = 144.50 Az = 356 (NEIS)
				PKPV A 1.7s 30.3nm
26.	e	A	20 27 08	Samoa Islands Region 16.14 S 172.74 W
				H = 20 07 21.6 h = 38 km MB = 5.1
				D = 145.40 Az = 355 (NEIS)
				PKPV A 1.5s 30.2nm

Day	Phase		h m s	Remarks
26.	eP	A	20 36 33.5	Iceland Region 66.17 N 17.11 W
				H = 20 31 48.0 h = 33 km MB = 4.4
				D = 21.34 Az = 123 (NEIS)
				PV A 1.0s 19.7nm M = 4.5
26.	ePKP	A	21 24 59.5	Fiji Islands Region 17.68 S 178.81 W
				H = 21 06 22.3 h = 588 km MB = 4.8
				D = 146.07 Az = 348 (NEIS)
				PKPV A 1.8s 30.4nm
26.	e(pPKP)	A	22 20 54	Samoa Islands Region 15.94 S 172.83 W
				H = 22 01 09.5 h = 39.4 km MB = 4.8
				D = 145.20 Az = 355 (NEIS)
26.	ePKP	A	22 37 57.5	Tonga Islands 15.13 S 173.01 W
				H = 22 18 26.4 h = 33 km MB = 4.2
				D = 144.38 Az = 355 (NEIS)
26.	+ePKP	A	22 58 50	Samoa Islands Region 15.94 S 172.83 W
				H = 22 39 14.5 h = 33 km MB = 5.0
				D = 145.19 Az = 355 (NEIS)
				PKPV A 1.2s 18.3nm
27.	eP	A	00 10 55	North of Severnaya Zemlya
				83.7 N 129.0 E
				H = 00 03 04 h = 33 km
				D = 42.83 Az = 304 (ISC)
27.	+ePKP	A	01 53 45	Samoa Islands Region 16.58 S 172.37 W
				H = 01 34 06.8 h = 33 km MB = 5.0
				D = 145.86 Az = 355 (NEIS)
				PKPV A 1.7s 51.5nm
27.	eP	A	03 09 48.5	Iceland 65.8 N 18.0 W
	e	A	10 06.5	H = 03 04 56 h = 33 km MB = 4.1
				D = 21.65 Az = 120 (ISC)

Day	Phase		h m s	Remarks
27.	ePn	A	04 33 20	Northern Italy 44.53 N 11.86 E
	ePg	A	33 50	H = 04 31 50.5 h = 34.3 km MB = 4.9
	eiSn	A	34 27.5	D = 6.12 Az = 359 (NEIS)
	eSg	A	35 15	
27.	eP	A	05 37 33	Kurile Islands 43.18 N 147.18 E
				H = 05 25 29.8 h = 38 km MB=4.9 MS=4.3
				D = 78.86 Az = 333 (NEIS)
27.	eP	A	05 45 18.5	Off East Coast of Honshu, Japan
				39.74 N 143.28 E
				H = 05 33 08.2 h = 33 km MB = 4.8
				D = 80.52 Az = 331 (NEIS)
27.	eP	A	07 53 55	Kurile Islands 43.12 N 147.17 E
	e	A	54 06	H = 07 41 54.3 h = 39 km
	eS	C	08 03 45	MB = 5.4 MS = 5.7 (NEIS)
	LmH	B	26.2	D = 78.9
	LmV	B	33.6	PV A 1.5s 50.3nm M = 5.3
				LmH B 21 6.3/um 5.9
				LmV B 20 6.2/um 6.0
27.	eiP	A	09 43 18.5	Hindu Kush Region 36.11 N 69.45 E
				H = 09 35 30.0 h = 156.1 km MB = 4.8
				D = 43.37 Az = 308 (NEIS)
				PV A 1.5s 40.2nm M = 4.8
27.	ePKP	A	10 39 35.5	Tonga Islands 16.07 S 173.07 W
	e	A	39 51	H = 10 19 59.5 h = 33 km MB = 5.0
				D = 145.30 Az = 355 (NEIS)
27.	ePKHKP	A	12 13 36	Tonga Islands 21.49 S 174.03 W
				H = 11 53 45.8 h = 37.2 km MB = 5.1
				D = 150.57 Az = 353 (NEIS)
27.	ePKP	A	14 53 09	Samoa Region 16.49 S 172.31 W
	e	A	53 22	H = 14 33 31.7 h = 33 km MB = 4.7
				D = 145.78 Az = 356 (ISC)
				PKPV A 1.4s 23.3nm

Day	Phase		h m s	Remarks
27.	ePKP	A	15 15 58	Tonga Islands 16.19 S 173.98 W
				H = 14 56 39.0 h = 173.4 km MB = 4.8
				D = 145.33 Az = 354 (NEIS)
27.	ePKP	A	15 35 14	Tonga Islands 15.70 S 174.09 W
				H = 15 15 41.5 h = 33 km MB = 4.7
				D = 144.84 Az = 354 (NEIS)
				PKPV A 1.8s 33.8nm
27.	eP	A	17 15 46	Kurile Islands 43.24 N 147.13 E
	e	A	15 56	H = 17 03 46.4 h = 44.4 km MB=4.8 MS=4.2
				D = 78.79 Az = 333 (NEIS)
				PV A traces
27.	ePP	A	18 35 14	Romania 45.8 N 26.9 E
				H = 18 32 20 h = 124 km (BCIS)
				D = 11.31
27.	ePKP	A	21 00(33)	Samoa Islands Region 16.07 S 172.65 W
	e	A	00 52	H = 20 40 56.7 h = 31 km MB = 4.9
	e	A	01 02.5	D = 145.34 Az = 355 (NEIS)
27.	ePKP	A	23 52 33.5	Samoa Islands Region 15.34 S 171.91 W
	LmH	C	24 54.3	H = 23 32 59.8 h = 33 km MB=5.5 MS=5.5
	LmV	C	54.5	D = 144.67 Az = 356 (NEIS)
				PKPV A 1.1s 20.2nm
				LmH C 22 1.4/um M = 5.6
				LmV C 23 1.5/um 5.7
27.	ePKP	A	23 54 13.5	Samoa Islands Region 15.16 S 171.92 W
				H = 23 34 38.4 h = 33 km MB=5.6 MS=5.1
				D = 144.49 Az = 356 (NEIS)
				PKPV A 1.8s 108.1nm
28.	ePKP	A	02 36 25	Fiji Islands Region 15.11 S 178.04 W
				H = 02 17 00.5 h = 62 km MB = 4.9
				D = 143.71 Az = 350 (NEIS)

Day	Phase		h m s	Remarks
28.	e	A	03 03 31	Samoa Region 15.7 S 172.98 W
				H = 02 43 39.5 h = 33 km MB = 5.0
				D = 144.90 Az = 355 (ISC)
28.	eP	A	09 13 43	Iran-USSR Border Region 36.89 N 59.27 E
				H = 09 06 32.2 h = 2 km MB = 3.6
				D = 36.42 Az = 308 (NEIS)
28.	eP	A	11 08 39	Iceland Region 66.23 N 16.58 W
				H = 11 03 51.5 h = 10 km MB = 4.3
				D = 21.19 Az = 124 (NEIS)
28.	e(pPKP)	A	12 48 07	Tonga 15.9 S 173.5 W
	e	A	48 35.5	H = 12 28 24.7 h = 33 km MB = 4.3
	e	A	48 51	D = 145.13 Az = 354 (ISC)
28.	eP	A	15 18 29.5	Fox Islands, Aleutian Is.
				52.31 N 168.30 W
				H = 15 06 35.1 h = 28.7 km MB = 4.6
				D = 77.43 Az = 0 (NEIS)
28.	eP	A	15 38 35	Bali Island Region 7.98 S 115.07 E
	epP	A	39 27	H = 15 24 50.8 h = 196.0 km MB = 5.9
	e	A	41 38	D = 104.66 Az = 320 (NEIS)
	ePP	A	42 56	h = 209 km
	ePKKP	A	54 21.5	PV A 1.4s 27.9 M = 6.1
	LmH	C	16 09.0	
28.	eP	A	16 41 52	Near East Coast of Honshu, Japan
				37.55 N 141.49 E
				H = 16 29 38.2 h = 57.2 km MB = 4.7
				D = 81.74 Az = 330 (NEIS)
28.	ePg	A	22 05 02	Austria 47.7 N 15.7 E
	eSg	A	05 54	H = 22 03 46 h = 0 km (BCIS)
				D = 3.97

Day	Phase		h m s	Remarks
28.	eP	A	22 37 30	Mid-Indian Rise 15.78 S 67.34 E
				H = 22 25 09.8 h = 23 km MB=5.0 MS=5.0
				D = 82.14 Az = 328 (NEIS)
				PV A 1.4s 23.3nm M = 5.0
29.	eP	A	01 30 54	Burma 26.49 N 97.14 E
	e	A	31 05	H = 01 20 02.9 h = 57.9 km MB=4.8 MS=4.6
				D = 67.26 Az = 317 (NEIS)
29.	ePKHKP	A	02 54 46	South of Fiji Islands 23.43 S 178.86 E
				H = 02 35 41.9 h = 404.6 km MB = 4.9
				D = 151.08 Az = 343 (NEIS)
29.	eP diff	C	03 55 25	Drake Passage 56.77 S 68.48 W
	eiPKIKP	A	58 44	H = 03 39 43.0 h = 13.9 km MB=6.1 MS=6.5
	ePP	C	04 00 36	D = 125.69 Az = 51 (NEIS)
	ePKS	C	02 00	PKIKPV A 1.0s 63.0nm
	eSKS	C	06 00	LmH B 18.5 14.3/um M = 6.7
	eSKKS	C	07 40	LmV B 19 25.0/um 6.9
	eS diff	C	08 45	
	ePS	C	10 35	
	ePPS	C	12 15	
	eSS	C	18 08	
	LmH	B	53.0	
	LmV	B	53.0	
29.	eP	A	05 18 49	Burma 26.82 N 97.16 E
	LmH	B	46.7	H = 05 07 59.2 h = 47.7 km MB = 5.3
	LmV	B	51.8	D = 67.03 Az = 316 (NEIS)
				PV A 1.5s 60.3nm M = 5.4
				LmH B 20.5 9.8/um 5.0
				LmV B 16 5.8/um 4.9
29.	ePn	A	05 26 14	Switzerland 47.33 N 9.18 E
	ePg	A	26 31	H = 05 25 17.7 h = 9.5 km
	eSn	A	27 00	D = 3.69 Az = 25 (NEIS)
	eSg	A	27 20	

Day	Phase		h m s	Remarks
29.	ePKIKP	A	09 49 05	Drake Passage 56.80 S 68.53 W
				H = 09 30 07.3 h = 38.3 km MB=5.1 MS=5.1
				D = 125.73 Az = 51 (NEIS)
				PKIKPV A 1.2s 16.3nm
29.	eP	A	10 49 57	Iceland Region 66.02 N 16.88 W
	LmH	B	11 01.5	H = 10 45 11.4 h = 14.1 km MB = 4.7
	LmV	B	02.8	D = 21.17 Az = 123 (NEIS)
				PV A 2.0s 94.0nm M = 4.8
				LmH B 12.5 2.2/um 4.7
				LmV B 14 2.7/um 4.9
29.	ePKP	A	14 42 27	Samoa Region 16.05 S 172.33 W
				H = 14 22 51.7 h = 33 km MB = 4.6
				D = 145.34 Az = 356 (ISC)
29.	ePKP	A	21 43 36	Samoa Islands Region 15.95 S 172.70 W
				H = 21 24 01.3 h = 35 km MB = 4.9
				D = 145.22 Az = 355 (NEIS)
29.	ePKP	A	21 54(00)	Samoa Islands Region 16.53 S 172.37 W
				H = 21 34 22.4 h = 33 km MB = 4.6
				D = 145.82 Az = 355 (NEIS)
				traces
29.	ePKP	A	22 04 48	Samoa Islands Region 16.21 S 172.57 W
				H = 21 45 11.3 h = 33 km MB = 4.8
				D = 145.49 Az = 355 (NEIS)
29.	ePKP	A	22 43 49	Fiji Islands Region 17.39 S 177.14 W
				H = 22 24 52.4 h = 388.1 km MB = 4.7
				D = 146.09 Az = 350 (NEIS)
30.	e	A	01 17 31.5	Southern Iran 26.84 N 55.51 E
				H = 01 09 35.4 h = 29.1 km MB = 4.8
				D = 40.87 Az = 318 (NEIS)

Day	Phase		h m s	Remarks
30.	ePKP	A	02 49 11	Samoa Islands Region 15.68 S 172.54 W H = 02 29 40.9 h = 69 km MB = 5.2 D = 144.96 Az = 355 (NEIS) PKPV A 1.4s 41.9nm
30.	ePKP	A	05 22 52	Samoa Islands Region 15.48 S 172.27 W H = 05 03 17.6 h = 33 km MB = 4.5 D = 144.78 Az = 356 (NEIS)
30.	eP	A	06 55 55	Samar, Philippine Islands 12.07 N 125.73 E H = 06 42 41.5 h = 109.1 km MB = 4.8 D = 95.41 Az = 324 (NEIS)
30.	eP	A	09 08 56	Burma 18.14 N 96.43 E
	LmH	C	40.4	H = 08 57 24.1 h = 33 km MB=5.0 MS=5.2 D = 72.94 Az = 318 (NEIS) PV A 2.1s 57.5nm M = 5.2 LmH C 24 1.6/um 5.2
30.	eP	A	14 41 19	Turkey 38.51 N 40.47 E
	LmH	C	50.3	H = 14 36 03.7 h = 5.8 km MB = 4.6
	LmV	C	52.3	D = 23.71 Az = 310 (NEIS) LmH C 24s 1.2/um M = 4.3 LmV C 19 1.0/um 4.5
30.	eP	A	15 10 15	Iceland Region 66.23 N 16.50 W H = 15 05 27.9 h = 10 km MB = 4.5 D = 21.16 Az = 124 (NEIS) PV A 1.6s 35.8nm M = 4.5
31.	+iPKP	A	07 33 59	East New Guinea Region 7 S 147 E H = 07 14 57 MB = 4.7 (NEIS) D = 122.4 PKPV A 1.3s 26.2nm
31.	eP	A	08 48 40	Iceland Region 66.17 N 16.63 W H = 08 43 55.5 h = 33 km MB = 4.3 D = 21.17 Az = 123 (NEIS)

Day	Phase		h m s	Remarks
31.	eiP	A	09 49 07.5	Greece 38.63 N 21.80 E
	LmH	B	55.2	H = 09 45 47.7 h = 18.6 km MB=5.4 MS=5.5
	LmV	B	55.7	D = 14.01 Az = 332 (NEIS) PV A 1.0s 70.9nm M = 5.4 LmH B 14 68.7/um 5.9 LmV B 11 37.0/um
31.	eP	A	13 54 40	Greece 38.52 N 21.66 E
	LmH	C	59.3	H = 13 51 20.2 h = 23.6 km MB = 4.7
	LmV	C	14 00.3	D = 14.06 Az = 333 (NEIS) LmH C 19.5s 3.2/um M = 4.4
31.	eP	A	14 24 31	Hokkaido, Japan Region 41.56 N 142.02 E H = 14 12 35.9 h = 71 km MB = 5.4 D = 78.46 Az = 330 (NEIS) PV A 1.2s 28.4nm M = 5.1
31.	eP	A	14 57 03	Greece 38.42 N 21.62 E
	LmH	C	15 03.0	H = 14 53 41.6 h = 39.4 km MB = 4.5
	LmV	C	03.0	D = 14.13 Az = 333 (NEIS) LmH C 16.5s 2.2/um M = 4.7 LmV C 22 1.1/um 5.1

C o r r i g e n d u m

Page 10, 7 h and 8th line from the top reads as follows:

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.

Page 10 - The new paragraph after NORSAR reads:

All source data given in the column "Remarks" which are not the result of Moxa data evaluations are followed in brackets by the abbreviation of the reporting agency or station, respectively (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, Edinburgh and the Bulletin of the International Seismological Centre, Edinburgh. In all other instances round brackets indicate uncertainties in interpretation of phases, time, depth of focus or epicentral distances, respectively.